



# DIGITAL HOME THEATER SYSTEM

Model Name : HT-Z410 / HT-Z510

Model Code : HT-Z410T/XAA

HT-Z510T/XAA

| Speaker   | HT-Z410  | HT-Z510  |
|-----------|----------|----------|
| Front     | PS-FZ410 | PS-FZ510 |
| Center    | PS-CZ410 | PS-CZ510 |
| Rear      | PS-RZ410 | PS-RZ510 |
| Subwoofer | PS-WZ410 | PS-WZ510 |

## ***SERVICE*** Manual

### DIGITAL HOME THEATER SYSTEM



HT-Z410



HT-Z510

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2. Product Specification
3. Disassembly & Reassembly
4. Troubleshooting
5. Exploded View & Part List
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Refer to the service manual in the GSPN (see the rear cover) for the more information.



#### **GSPN (Global Service Partner Network)**

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# 1. Precaution

Follow these safety, servicing and ESD precautions to prevent damage and protect against potential hazards such as electrical shock and X-rays.

## 1-1 Safety Precautions

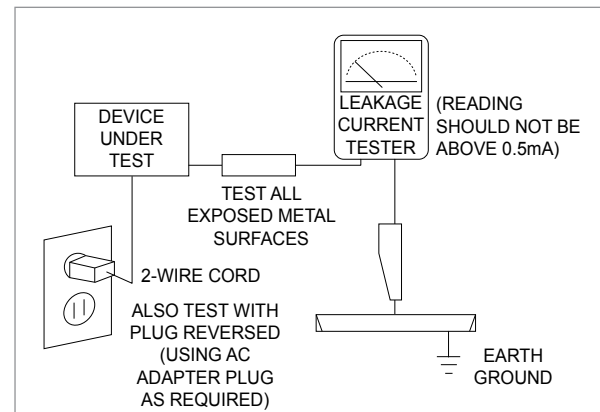
1. Be sure that all of the built-in protective devices are replaced.
2. When reinstalling the chassis and its assemblies, be sure to restore all protective devices, including control knobs and compartment covers.
3. Make sure that there are no cabinet openings through which people--particularly children--might insert fingers and contact dangerous voltages. Such openings include the spacing between the picture tube and the cabinet mask, excessively wide cabinet ventilation slots, and improperly fitted back covers.
4. Design Alteration Warning:  
Never alter or add to the mechanical or electrical design of the unit.  
Example: Do not add auxiliary audio or video connectors. Such alterations might create a safety hazard.  
Also, any design changes or additions will void the manufacturer's warranty.

5. Leakage Current Hot Check (Fig. 1-1):

Warning: Do not use an isolation transformer during this test. Use a leakage-current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, Leakage Current for Appliances), and Underwriters Laboratories (UL Publication UL1410, 59.7).

With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, etc.) and all exposed metal parts. Examples:

Handle brackets, metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the powerplug prongs in the AC outlet and repeat.

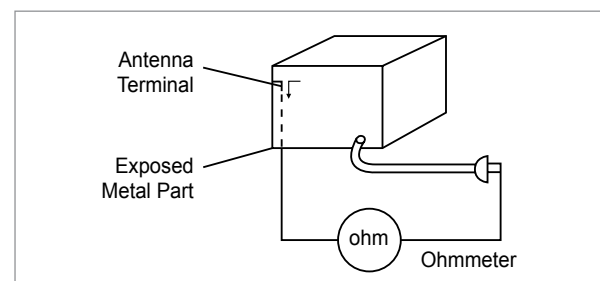


<Fig. 1-1 AC Leakage Test>

6. Insulation Resistance Cold Check:

(1) With the unit's AC plug disconnected from the AC source, connect an electrical jumper across the two AC prongs. (2) Set the power switch to ON. (3) Measure the resistance between the shorted AC plug and any exposed metallic parts.

Example: Screwheads, antenna, control shafts or handle brackets.



<Fig. 1-2 Insulation Resistance Test>

If any of the exposed metallic parts has a return path to the chassis, the measured resistance should be between 1 and 5.2 megohms. If there is no return path, the measured resistance should be "infinite." If the resistance is outside these limits, a shock hazard might exist.  
See Fig. 1-2

7. Components, parts and wiring that appear to have overheated or that are otherwise damaged should be replaced with parts that meet the original specifications. Always determine the cause of damage or overheating, and correct any potential hazards
8. Observe the original lead dress, especially near the following areas: Antenna wiring, sharp edges, and especially the AC and high voltage power supplies. Always inspect for pinched, out-of-place, or frayed wiring. Do not change the spacing between components and the printed circuit board. Check the AC power cord for damage. Make sure that no wires or components touch thermally hot parts.
9. Product Safety Notice:  
Some electrical and mechanical parts have special safety-related characteristics which might not be obvious from visual inspection. These safety features and the protection they give might be lost if the replacement component differs from the original—even if the replacement is rated for higher voltage, wattage, etc.
10. Components that are critical for safety are indicated in the circuit diagram by shading,  or . Use replacement components that have the same ratings, especially for flame resistance and dielectric strength specifications. A replacement part that does not have the same safety characteristics as the original might create shock, fire or other hazards.

## 1-2 Servicing Precautions

---

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) Remove or reinstall any component or assembly, (b) Disconnect an electrical plug or connector, (c) Connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring may be clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500V) to the blades of the AC plug.  
  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.



First read the "Safety Precautions" section of this manual. If some unforeseen circumstance creates a conflict between the servicing and safety precautions, always follow the safety precautions.

### 1-3 Precautions for Electrostatically Sensitive Devices (ESDs)

---

1. Some semiconductor ("solid state") devices are easily damaged by static electricity. Such components are called Electrostatically Sensitive Devices (ESDs). Examples include integrated circuits and some field-effect transistors. The following techniques will reduce the occurrence of component damage caused by static electricity.
2. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. (Be sure to remove it prior to applying power--this is an electric shock precaution.)
3. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
4. Do not use freon-propelled chemicals. These can generate electrical charges that damage ESDs.
5. Use only a grounded-tip soldering iron when soldering or unsoldering ESDs.
6. Use only an anti-static solder removal device. Many solder removal devices are not rated as "anti-static" (these can accumulate sufficient electrical charge to damage ESDs).
7. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
8. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
9. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting a foot from a carpeted floor can generate enough static electricity to damage an ESD.

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## 2. Product Specification

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### 2-1 Product Feature

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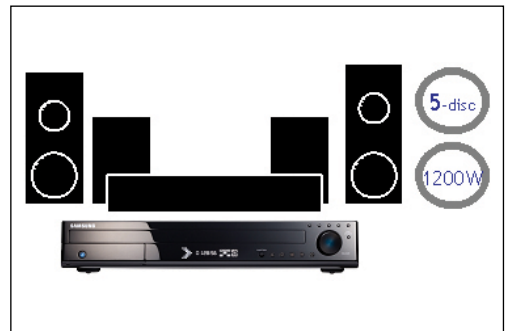
#### 2-1-1 HT-Z410 Product Feature

- 1000W Power Output
- Pure digital HDMI output Video up-scale up to 1080P w/ CEC
- Expandable to rear wireless. Separate wireless kit is available.
- USB Host makes easy to access portable devices (Including video)
- I-pod dock cradle w/OSD, remote control support



#### 2-1-2 HT-Z510 Product Feature

- 1200W High Power output
- Pure digital HDMI output w/ CEC Video up-scale up to 1080P
- US Most popular satellite radio – XM ready (US only)
- Plays Multi-Channel DVD-Audio
- USB Host makes easy to access portable devices
- Rear speakers are wireless For clean & simple set-up
- I-pod dock cradle w/OSD, remote control support



## 2-2 Specifications

### 2-2-1 HT-Z410 Specifications

#### ■ Basic Specification

| Model Name      |                                    | HT-Z410                                                       |
|-----------------|------------------------------------|---------------------------------------------------------------|
| General         | Power Requirements                 | AC 120V, 60Hz                                                 |
|                 | Power Consumption                  | 90 W                                                          |
|                 | Weight                             | 11.5 lbs                                                      |
|                 | Dimensions                         | 16.9 (W) x 17.3 (H) x 2.9 (D) inches                          |
|                 | Operating Temperature Range        | +41°F to +95°F                                                |
|                 | Operating Humidity Range           | 10 % to 75 %                                                  |
| Disc            | DVD (Digital Versatile Disc)       | Reading Speed: 3.49 ~ 4.06 m/sec.                             |
|                 |                                    | Approx. Play Time (Single Sided, Single Layer Disc): 135 min. |
|                 | CD: 5 inches<br>(COMPACT DISC)     | Reading Speed: 4.8 ~ 5.6 m/sec.                               |
|                 |                                    | Maximum Play Time: 74 min.                                    |
|                 | CD: 3 1/2 inches<br>(COMPACT DISC) | Reading Speed: 4.8 ~ 5.6 m/sec.                               |
|                 |                                    | Maximum Play Time: 20 min.                                    |
| Video Output    | Composite Video                    | 480i                                                          |
|                 |                                    | 1 channel: 1.0 Vp-p (75 Ω load)                               |
|                 | Component Video                    | 480i                                                          |
|                 |                                    | Y: 1.0 Vp-p (75 load)                                         |
|                 |                                    | Pr: 0.70 Vp-p (75 Ω load)                                     |
|                 |                                    | Pb: 0.70 Vp-p (75 Ω load)                                     |
| Video/<br>Audio | HDMI                               | 1080p, 1080i, 720p, 480p                                      |
| Amplifier       | Front speaker output               | 166W x 2 (3Ω)                                                 |
|                 | Center speaker output              | 170W x 2 (3Ω)                                                 |
|                 | Rear speaker output                | 166W x 2 (3Ω)                                                 |
|                 | Subwoofer speaker output           | 166W (3Ω)                                                     |
|                 | Frequency range                    | 20Hz ~ 20KHz                                                  |
|                 | S/N Ratio                          | 70dB                                                          |
|                 | Channel separation                 | 60dB                                                          |
|                 | Input sensitivity                  | (AUX) 400mV                                                   |

## ■ Speaker Specification

| Speaker | Speaker system              | 5.1ch speaker system                                                                                         |               |              |
|---------|-----------------------------|--------------------------------------------------------------------------------------------------------------|---------------|--------------|
|         |                             | Front/Rear                                                                                                   | Center        | Subwoofer    |
|         | Impedance                   | 3Ω                                                                                                           | 3Ω            | 3Ω           |
|         | Frequency range             | 140Hz ~ 20KHz                                                                                                | 140Hz ~ 20KHz | 45Hz ~ 160Hz |
|         | Output sound pressure level | 86dB/W/M                                                                                                     | 86dB/W/M      | 86dB/W/M     |
|         | Rated input                 | 166W                                                                                                         | 170W          | 166W         |
|         | Maximum input               | 332W                                                                                                         | 340W          | 332W         |
|         | Dimensions (W x H x D)      | Front/Rear: 3.5 x 5.4 x 3.6 inches<br>Center: 11.8 x 4.0 x 3.6 inches<br>Subwoofer: 7.1 x 12.6 x 15.0 inches |               |              |
|         | Weights                     | Front/Rear: 1.3 lbs<br>Center: 2.1 lbs<br>Subwoofer: 9.9 lbs                                                 |               |              |

## 2-2-2 HT-Z510 Specifications

### ■ Basic Specification

|                     |                                        |                                                               |
|---------------------|----------------------------------------|---------------------------------------------------------------|
| <b>Model Name</b>   |                                        | HT-Z510                                                       |
| <b>General</b>      | <b>Power Requirements</b>              | AC 120V, 60Hz                                                 |
|                     | <b>Power Consumption</b>               | 90 W                                                          |
|                     | <b>Weight</b>                          | 11.5 lbs                                                      |
|                     | <b>Dimensions</b>                      | 16.9 (W) x 17.3 (H) x 2.9 (D) inches                          |
|                     | <b>Operating Temperature Range</b>     | +41°F to +95°F                                                |
|                     | <b>Operating Humidity Range</b>        | 10 % to 75 %                                                  |
| <b>Disc</b>         | <b>DVD (Digital Versatile Disc)</b>    | Reading Speed: 3.49 ~ 4.06 m/sec.                             |
|                     |                                        | Approx. Play Time (Single Sided, Single Layer Disc): 135 min. |
|                     | <b>CD: 5 inches (COMPACT DISC)</b>     | Reading Speed: 4.8 ~ 5.6 m/sec.                               |
|                     |                                        | Maximum Play Time: 74 min.                                    |
|                     | <b>CD: 3 1/2 inches (COMPACT DISC)</b> | Reading Speed: 4.8 ~ 5.6 m/sec.                               |
|                     |                                        | Maximum Play Time: 20 min.                                    |
| <b>Video Output</b> | <b>Composite Video</b>                 | 480i                                                          |
|                     |                                        | 1 channel: 1.0 Vp-p (75 Ω load)                               |
|                     | <b>Component Video</b>                 | 480i                                                          |
|                     |                                        | Y: 1.0 Vp-p (75 load)                                         |
|                     |                                        | Pr: 0.70 Vp-p (75 Ω load)                                     |
|                     |                                        | Pb: 0.70 Vp-p (75 Ω load)                                     |
| <b>Video/ Audio</b> | <b>HDMI</b>                            | 1080p, 1080i, 720p, 480p                                      |
| <b>Amplifier</b>    | <b>Front speaker output</b>            | 170W x 2 (3Ω)                                                 |
|                     | <b>Center speaker output</b>           | 180W x 2 (3Ω)                                                 |
|                     | <b>Rear speaker output</b>             | 170W x 2 (3Ω)                                                 |
|                     | <b>Subwoofer speaker output</b>        | 340W (3Ω)                                                     |
|                     | <b>Frequency range</b>                 | 20Hz ~ 20KHz                                                  |
|                     | <b>S/N Ratio</b>                       | 70dB                                                          |
|                     | <b>Channel separation</b>              | 60dB                                                          |
|                     | <b>Input sensitivity</b>               | (AUX) 400mV                                                   |



## ■ SWA-4000 Specification

|          |                             |                         |
|----------|-----------------------------|-------------------------|
| SWA-4000 | Power Consumption           | 40 W                    |
|          | Weight                      | 2.9 lbs                 |
|          | Dimensions (W x H x D)      | 3.0 x 6.9 x 14.0 inches |
|          | Operating Temperature Range | +5°C ~ +35°C            |
|          | Operating Humidity Range    | 10% ~ 75%               |
|          | Output                      | 170W x 2                |
|          | Frequency range             | 20Hz ~ 20KHz            |
|          | S/N Ratio                   | 75dB                    |

## ■ Speaker Specification

|         |                             |                                                                                                              |               |              |
|---------|-----------------------------|--------------------------------------------------------------------------------------------------------------|---------------|--------------|
| Speaker | Speaker system              | 5.1ch speaker system                                                                                         |               |              |
|         |                             | Front/Rear                                                                                                   | Center        | Subwoofer    |
|         | Impedance                   | 3Ω                                                                                                           | 3Ω            | 3Ω           |
|         | Frequency range             | 140Hz ~ 20KHz                                                                                                | 140Hz ~ 20KHz | 45Hz ~ 160Hz |
|         | Output sound pressure level | 86dB/W/M                                                                                                     | 86dB/W/M      | 86dB/W/M     |
|         | Rated input                 | 170W                                                                                                         | 180W          | 340W         |
|         | Maximum input               | 340W                                                                                                         | 360W          | 680W         |
|         | Dimensions (W x H x D)      | Front/Rear: 3.5 x 9.0 x 3.6 inches<br>Center: 11.8 x 4.0 x 3.6 inches<br>Subwoofer: 7.9 x 15.7 x 16.5 inches |               |              |
|         | Weights                     | Front: 1.9 lbs<br>Center: 3.1 lbs<br>Rear: 1.1 lbs<br>Subwoofer: 19.0 lbs                                    |               |              |

## 2-3 Specifications Analysis

| Model Name     |                           |     | HT-Z410                                                                                      | HT-Z510                                                                                      | HT-TX500                                                                            |
|----------------|---------------------------|-----|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Photo          |                           |     |             |            |  |
| Output Power   | RMS (10% THD), REF: 1CH   |     | 1000W                                                                                        | 1200W                                                                                        | 1000W                                                                               |
|                | Output Power (ch)         |     | Front: 166W x 2 (3Ω)<br>Center: 170W x 2 (3Ω)<br>Rear: 166W x 2 (3Ω)<br>Subwoofer: 166W (3Ω) | Front: 170W x 2 (3Ω)<br>Center: 180W x 2 (3Ω)<br>Rear: 170W x 2 (3Ω)<br>Subwoofer: 340W (3Ω) | 167W x 5<br>(Active Subwoofer: 165W)                                                |
| General        | HDMI CEC                  |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | Calliope                  |     | X                                                                                            | X                                                                                            | X                                                                                   |
|                | Deck                      |     | 5 DISC CHANGER                                                                               | 5 DISC CHANGER                                                                               | Slot In                                                                             |
|                | DVD Disc Capacity         |     | 5 DVD                                                                                        | 5 DVD                                                                                        | 1 DVD                                                                               |
|                | Front Display             |     | 1Color - VFD                                                                                 | 1Color - VFD                                                                                 | 1Color - VFD                                                                        |
|                | Sleep                     |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | Dimmer                    |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
| Compatible A/V | CD/CD-R/CD-RW             |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | VCD/SVCD                  |     | X                                                                                            | X                                                                                            | ○ (except USA, EU)                                                                  |
|                | DVD/DVD-R/DVD-RW          |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | MP3                       |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | JPEG Viewer               |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | DVD-Audio                 |     | ○                                                                                            | ○                                                                                            | ○ (except CIS)                                                                      |
|                | DVD-OK                    |     | X                                                                                            | X                                                                                            | ○ (4000 Songs, only CIS)                                                            |
|                | WMA                       |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | DIVX                      | AVI | Divx3.11~Divx5.1, XviD                                                                       | Divx3.11~Divx5.1, XviD                                                                       | ○                                                                                   |
|                |                           | WMV | V1/V2/V3/V7                                                                                  | V1/V2/V3/V7                                                                                  | ○                                                                                   |
| SACD           |                           | X   | X                                                                                            | X                                                                                            |                                                                                     |
| WIRELESS       |                           |     | ○ (Wireless ready)                                                                           | ○ (Wireless rear)                                                                            | ○                                                                                   |
| USB HOST       |                           |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
| Anynet         |                           |     | Anynet+                                                                                      | Anynet+                                                                                      | Anynet+                                                                             |
| DVD (Video)    | Progressive Scan (NT/PAL) |     | ○ (USA only NTSC)                                                                            | ○ (USA only NTSC)                                                                            | ○ (USA only NTSC)                                                                   |
|                | Logo copy                 |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | NTSC ↔ PAL                |     | ○ (USA only NTSC, CIS only PAL)                                                              | ○ (USA only NTSC, CIS only PAL)                                                              | ○ (USA only NTSC, CIS only PAL)                                                     |
|                | PAL M (Brazil)            |     | X                                                                                            | X                                                                                            | X                                                                                   |
| Sound Mode     | EQ/DSP                    |     | 3Mode / 5Mode                                                                                | 3Mode / 5Mode                                                                                | 3Mode / 5Mode                                                                       |
| SDSM-EX        | (DNSE 5.1)                |     | X                                                                                            | X                                                                                            | X                                                                                   |
| Audio Decoding | Dolby Digital             |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | Dolby ProLogic-II         |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | Dolby ProLogic-IIX        |     | X                                                                                            | X                                                                                            | X                                                                                   |
|                | DTS                       |     | ○                                                                                            | ○                                                                                            | ○                                                                                   |
|                | Dolby Digital EX          |     | X                                                                                            | X                                                                                            | X                                                                                   |
|                | DTS ES Discrete 6.1       |     | X                                                                                            | X                                                                                            | X                                                                                   |
|                | DTS 96/24                 |     | X                                                                                            | X                                                                                            | X                                                                                   |
|                | THX                       |     | X                                                                                            | X                                                                                            | X                                                                                   |
|                | DTS Neo 6                 |     | X                                                                                            | X                                                                                            | X                                                                                   |

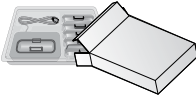
※ ○: application, X: non-application

| Model Name             |                        | HT-Z410                                                                           | HT-Z510                                                                            | HT-TX500                                                                            |
|------------------------|------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Photo                  |                        |  |  |  |
| Video Inputs           | Component              | X                                                                                 | X                                                                                  | X                                                                                   |
|                        | Composite              | X                                                                                 | X                                                                                  | X                                                                                   |
|                        | S-Video                | X                                                                                 | X                                                                                  | X                                                                                   |
|                        | HDMI In                | X                                                                                 | X                                                                                  | X                                                                                   |
| Video Outputs          | Component              | ○                                                                                 | ○                                                                                  | ○                                                                                   |
|                        | Composite              | ○                                                                                 | ○                                                                                  | ○                                                                                   |
|                        | HDMI Out               | ○                                                                                 | ○                                                                                  | ○ (1080P)                                                                           |
|                        | S-Video                | X                                                                                 | X                                                                                  | X                                                                                   |
|                        | SCART Out              | X                                                                                 | X                                                                                  | X                                                                                   |
| Audio in/out           | In                     | AUX1                                                                              | AUX1                                                                               | AUX1                                                                                |
|                        | Line In                | AUX2                                                                              | AUX2                                                                               | AUX2                                                                                |
|                        | Multi ch Out           | X                                                                                 | X                                                                                  | X                                                                                   |
|                        | Out                    | X                                                                                 | X                                                                                  | X                                                                                   |
| Optical jack           | In (Digital In)        | ○ (*1)                                                                            | ○ (*1)                                                                             | ○ (*2)                                                                              |
|                        | Out                    | X                                                                                 | X                                                                                  | X                                                                                   |
| Coaxial jack           | In                     | X                                                                                 | X                                                                                  | X                                                                                   |
|                        | Out                    | X                                                                                 | X                                                                                  | X                                                                                   |
| i-Link                 |                        | X                                                                                 | X                                                                                  | X                                                                                   |
| Headphone/<br>MIC Jack | Headphone Jack (3.5Φ)  | ○                                                                                 | ○                                                                                  | X                                                                                   |
|                        | 2 MIC Jack (6.5Φ)      | X                                                                                 | X                                                                                  | ○ (Wireless MIC, CIS Only)                                                          |
| Tuner                  | FM                     | ○                                                                                 | ○                                                                                  | ○                                                                                   |
|                        | RDS                    | X                                                                                 | X                                                                                  | ○ (EU Only)                                                                         |
|                        | AM                     | X                                                                                 | X                                                                                  | X                                                                                   |
|                        | Preset Memory          | 15                                                                                | 15                                                                                 | 15                                                                                  |
| Remote Key             | Universal (MBR)        | ○                                                                                 | ○                                                                                  | ○                                                                                   |
|                        | Key                    | 58 Key                                                                            | 58 Key                                                                             | 60 Key                                                                              |
| Dual Voltage           |                        | HIGH, LOW, DUAL Voltage                                                           | HIGH, LOW, DUAL Voltage                                                            | HIGH, LOW, DUAL Voltage                                                             |
| Speaker                | Type (Sat/Tallboy)     | Sat                                                                               | Sat                                                                                | Tallboy                                                                             |
|                        | Stand                  | ○                                                                                 | ○                                                                                  | ○                                                                                   |
|                        | Impedance (Sat/Woofer) | 3Ω/3Ω                                                                             | 3Ω/3Ω                                                                              | 3Ω/3Ω                                                                               |
|                        | Active (Powered) S/W   | X                                                                                 | X                                                                                  | X                                                                                   |
| Net Weight<br>(Kg)     | Set                    | 5                                                                                 | 5                                                                                  | 5                                                                                   |
| XM READY               |                        | X                                                                                 | ○                                                                                  | X                                                                                   |
| ASC                    |                        | ○                                                                                 | ○                                                                                  | X                                                                                   |
| iPod docking           |                        | ○                                                                                 | ○                                                                                  | X                                                                                   |

※ ○: application, X: non-application

2-4 Accessories

2-4-1 HT-Z410 Supplied Accessories

| Accessories                                                                         | Item                        | Item code                  | Remark                 |
|-------------------------------------------------------------------------------------|-----------------------------|----------------------------|------------------------|
|    | Remote Control<br>Batteries | AH59-01907E<br>4301-000116 | Samsung Service center |
|    | Video Cable                 | AH39-40001V                |                        |
|    | FM Antenna                  | AH42-00017A                |                        |
|    | iPod Dock Package           | AH97-02650A                |                        |
|  | ASC microphone              | AH30-00099A                |                        |
|  | Owner's Instructions        | AH68-02047C                |                        |

## 2-4-2 HT-Z510 Supplied Accessories

| Accessories                                                                         | Item                        | Item code                  | Remark                 |
|-------------------------------------------------------------------------------------|-----------------------------|----------------------------|------------------------|
|    | Remote Control<br>Batteries | AH59-01907F<br>4301-000116 | Samsung Service center |
|    | Video Cable                 | AH39-40001V                |                        |
|    | FM Antenna                  | AH42-00017A                |                        |
|    | ASC microphone              | AH30-00099A                |                        |
|  | Owner's Instructions        | AH68-02048C                |                        |

### ■ SWA-4000

| Accessories                                                                         | Item                        | Item code   | Remark                 |
|-------------------------------------------------------------------------------------|-----------------------------|-------------|------------------------|
|  | Wireless Receiver<br>Module | AH97-02731K | Samsung Service center |
|  | Tx Card                     | AH81-04177J |                        |
|  | Speaker Cable - 2EA         | AH81-02137A |                        |

# MEMO

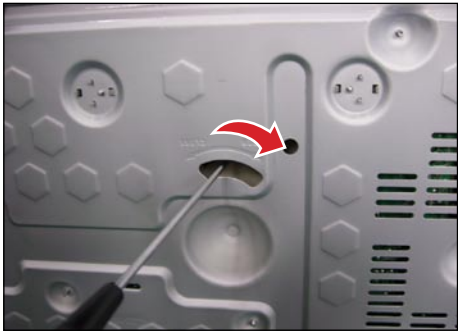
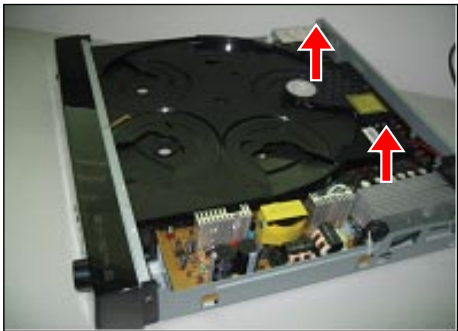
### 3. Disassembly & Reassembly

#### 3-1 Overall Disassembly & Reassembly

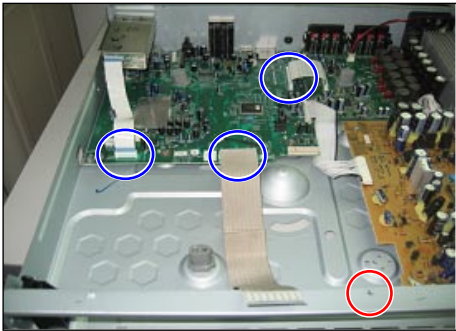
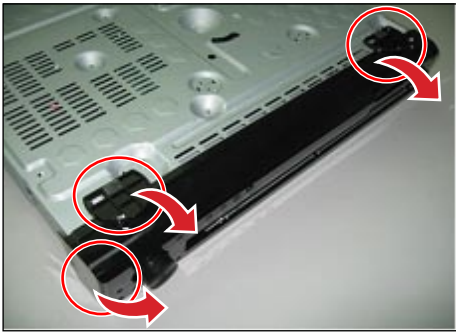
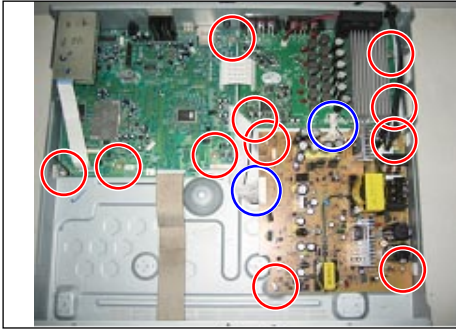
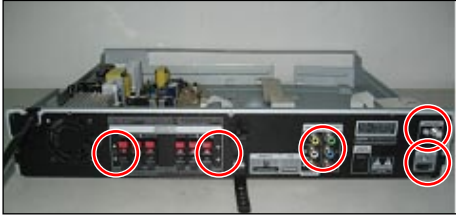


- Be careful to follow the disassembly sequence described in the manual. Otherwise, the product may be damaged.
- Be sure to carefully read and understand the safety instructions before performing any work as the IC chips on the PCB are vulnerable to static electricity.
- Assemble in the reverse order of disassembly.

| No. | Part Name | Description                                                                                                                                                                                                                                                                       | Description Photo                                                                                                                                                                                                                                                                                                |
|-----|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | COVER-TOP | <p>1) Unscrew the 2 screws from the Left and Right Side.<br/>: BH 3*10 BLACK</p> <p>2) Unscrew the 4 screws from the Rear Side.<br/>: BH 3*10 BLACK</p> <p>3) Lift the Top-Cover to separate it.</p> <div>  Be careful not to make any scratches as you remove it.         </div> |  <p>&lt;Right-Side&gt;</p>  <p>&lt;Left-Side&gt;</p>  |

| No. | Part Name | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Description Photo                                                                                                                                                                                                                                              |
|-----|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2   | ASSY DOOR | <p>1) Rotate the lever with screwdriver at the Bottom-Cover to open the door.</p> <p>2) Lift the ASSY DOOR in the direction of the arrow to separate it.</p>                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            |
| 3   | DVD MECHA | <p>1) Rotate the tray to view the tray screws.</p> <p>2) Unscrew the 4 screws of tray and 1 screw of HOLDER-MECHA.<br/> : BH 3*25 SILVER - <span style="color: red;">○</span><br/> : BH 3*6 SILVER - <span style="color: blue;">○</span></p> <p>3) Lift the back side of tray in the direction of the arrow to separate it.</p> <p>4) Separate the cable which is connected to MAIN PCB.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>⚠ In case of pulling up the MAIN PCB cable, it is easier to pull up when pressing the grip.</p> </div> |    |



| No. | Part Name  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                              | Description Photo                                                                                                                                                                                                                                          |
|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4   | ASSY FRONT | <p>1) Disconnect the 3 FFC cables which is connected to the MAIN PCB.</p> <div data-bbox="451 355 924 500"> <p>⚠ In case of pulling up the MAIN PCB cable, it is easier to pull up when pressing the grip.</p> </div> <p>2) Unscrew the 1 screw on the front side.<br/>: BH 3*6 SILVER</p> <p>3) Unhook the 2 hooks at the top of the Cabinet-Front.</p> <p>4) Unhook the 4 hooks at the left, right and bottom of the Cabinet-Front to separate it.</p> |    |
| 5   | PCB        | <p>1) Separate 2 cables which is connected between POWER PCB and MPEG/AMP PCB.</p> <div data-bbox="451 1538 924 1724"> <p>⚠ In case of pulling up the POWER PCB and MPEG/AMP cable, it is easier to pull up when pressing the grip.</p> </div> <p>2) Unscrew the 11 screws of BOTTOM cover.<br/>: BH 3*6 SILVER</p> <p>3) Unscrew the 5 screws of rear panel.<br/>: BH 3*10 BLACK</p>                                                                    |                                                                                    |

| No. | Part Name | Description                           | Description Photo                                                                  |
|-----|-----------|---------------------------------------|------------------------------------------------------------------------------------|
| 6   | Set       | 1) Picture of a disassembled product. |  |

---

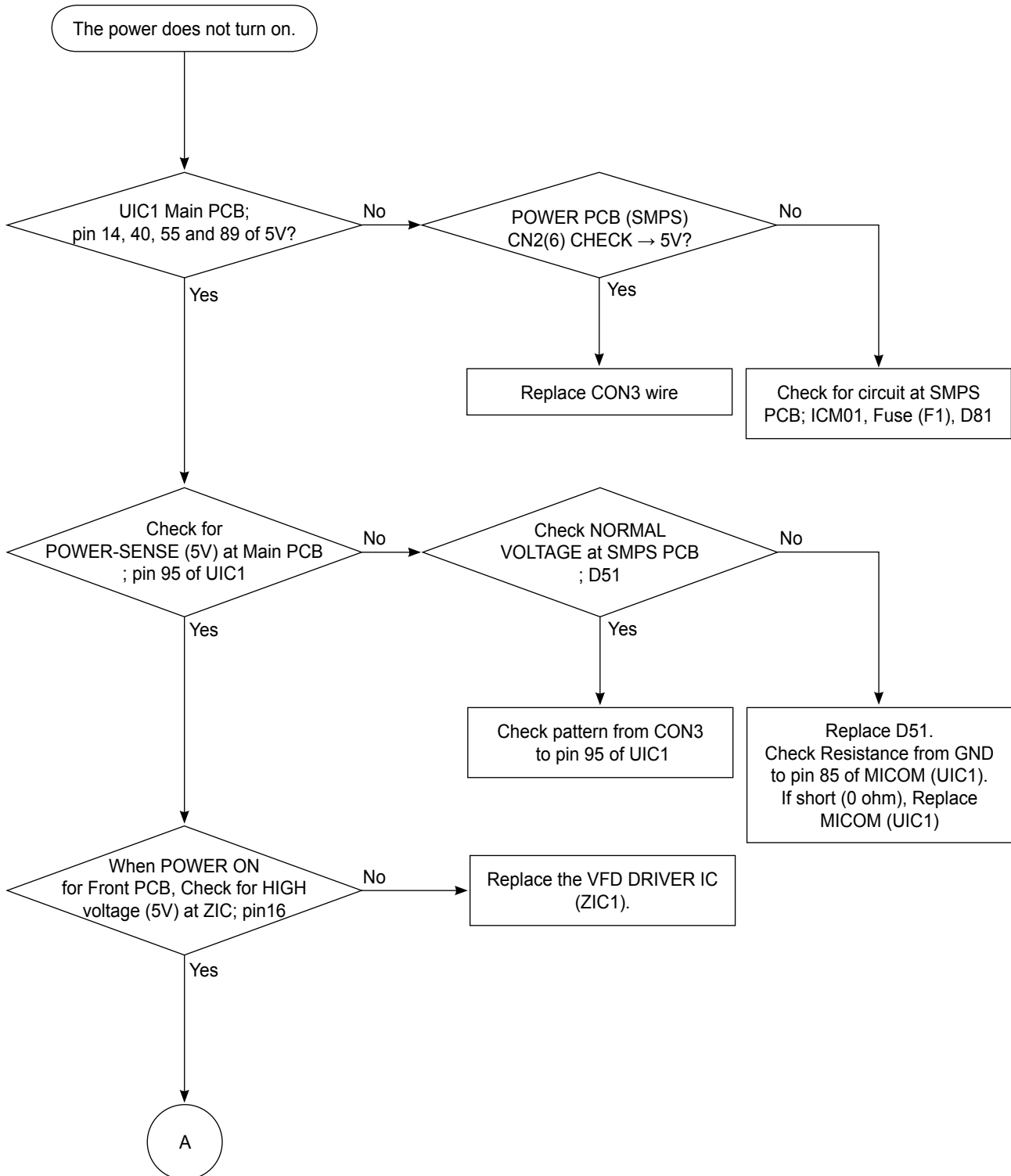
## 4. Troubleshooting

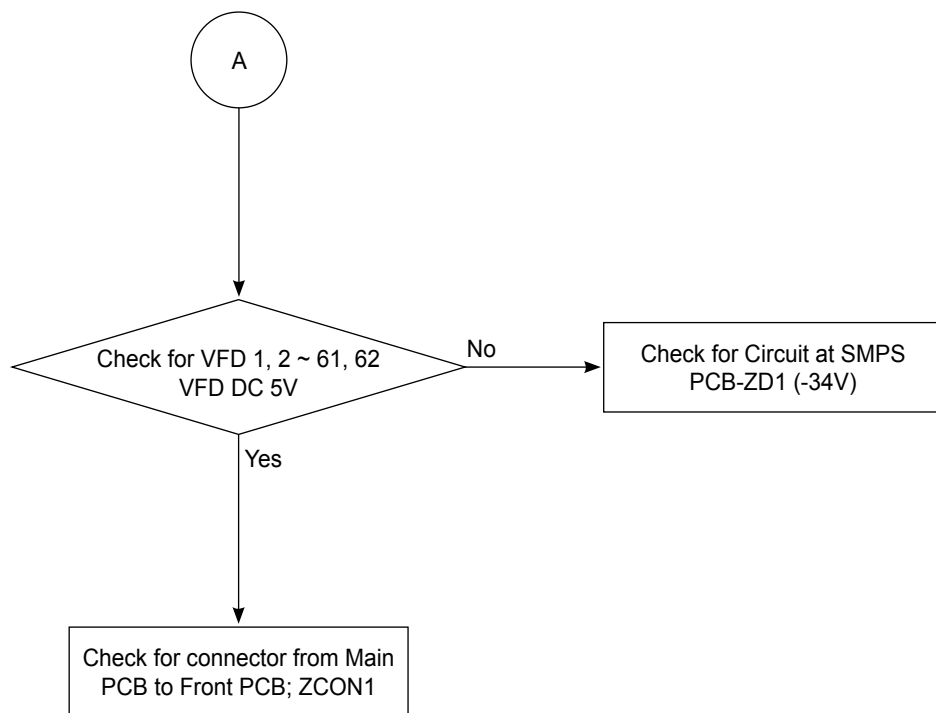
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|            |                                                                        |             |
|------------|------------------------------------------------------------------------|-------------|
| <b>4-1</b> | <b>Checkpoints by Error Mode .....</b>                                 | <b>4-2</b>  |
| <b>4-2</b> | <b>Measures to be taken when the Protection Circuit operates .....</b> | <b>4-20</b> |
| <b>4-3</b> | <b>Initialization &amp; Upgrade Methods.....</b>                       | <b>4-22</b> |

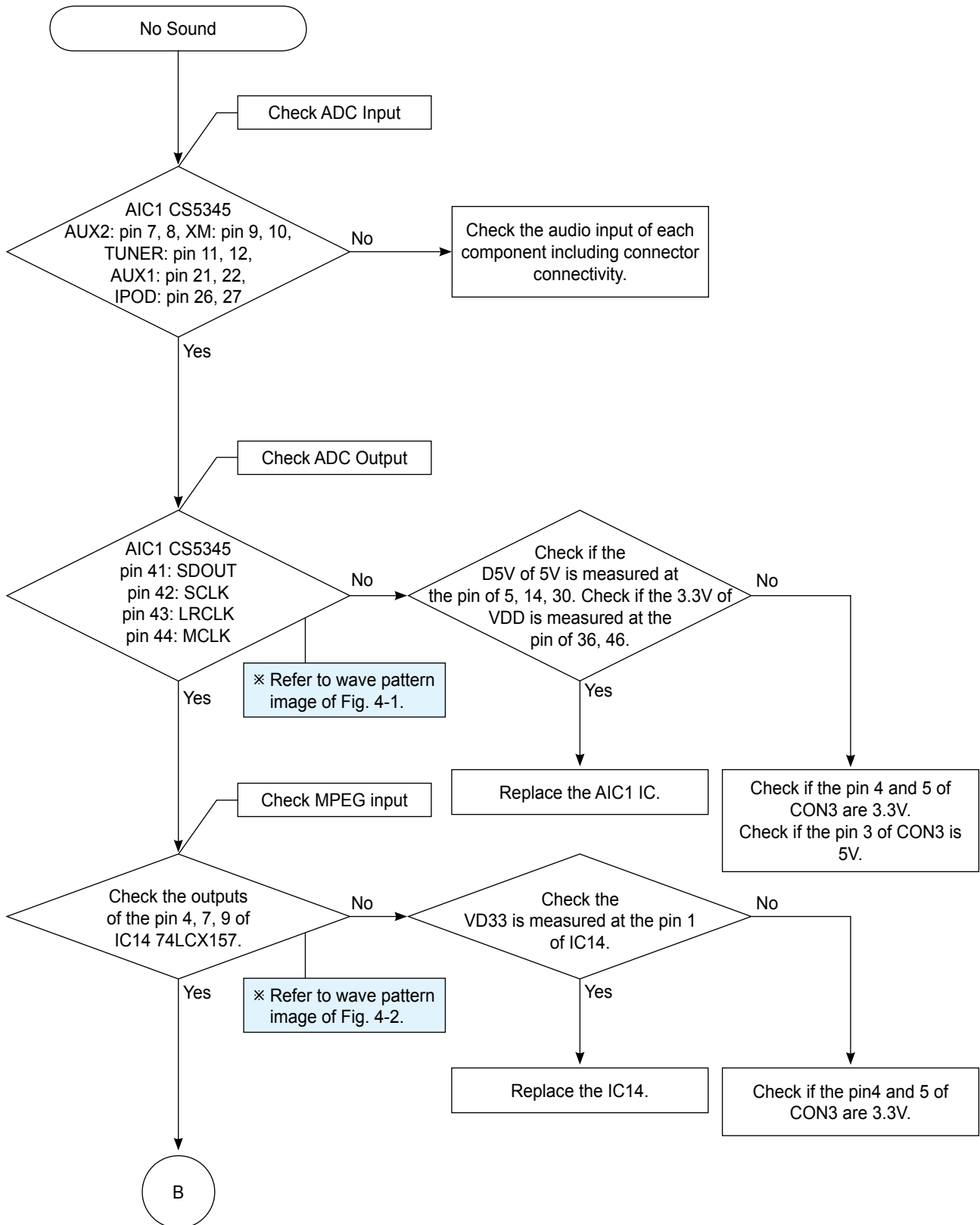
## 4-1 Checkpoints by Error Mode

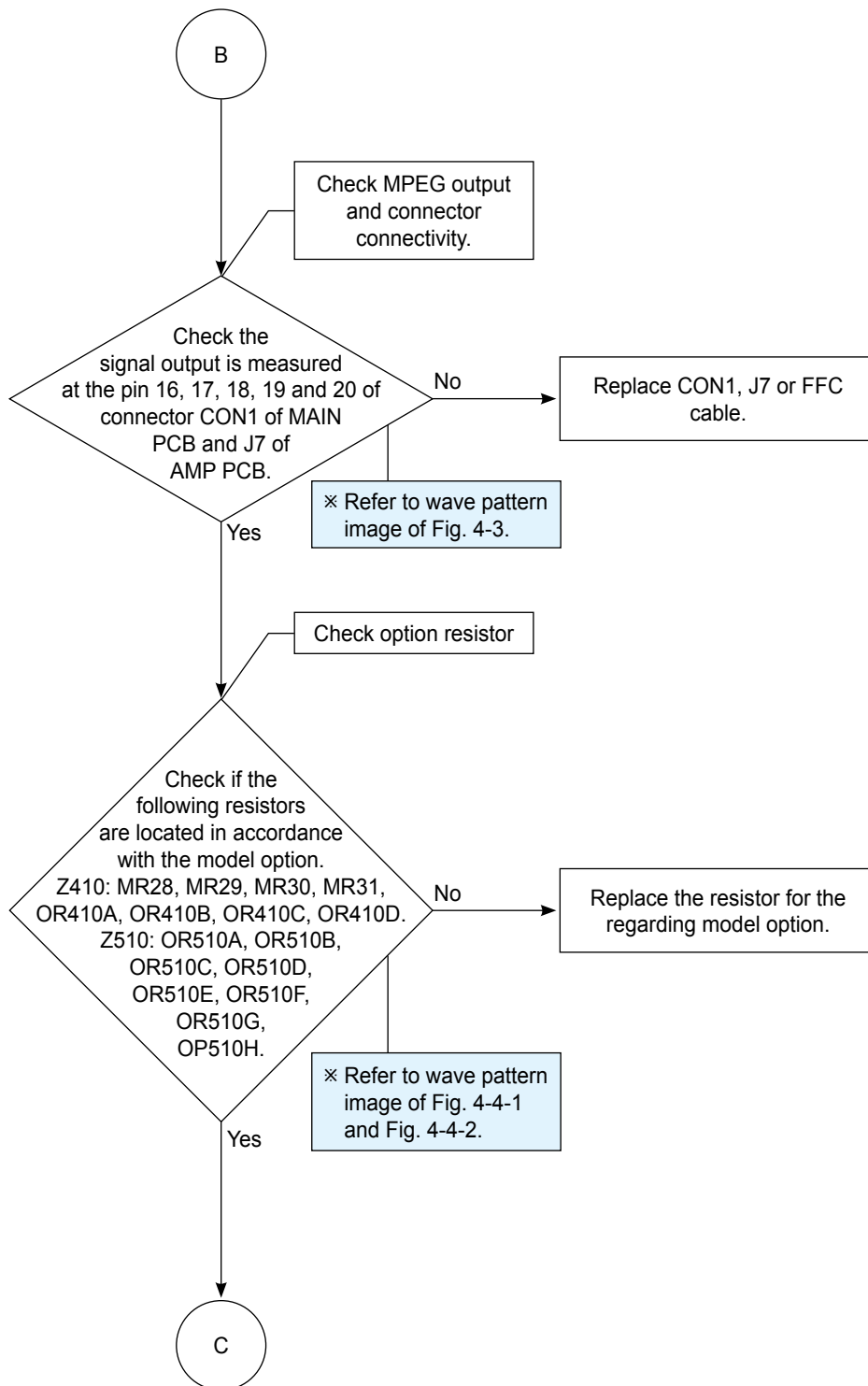
### 4-1-1 Power Failure

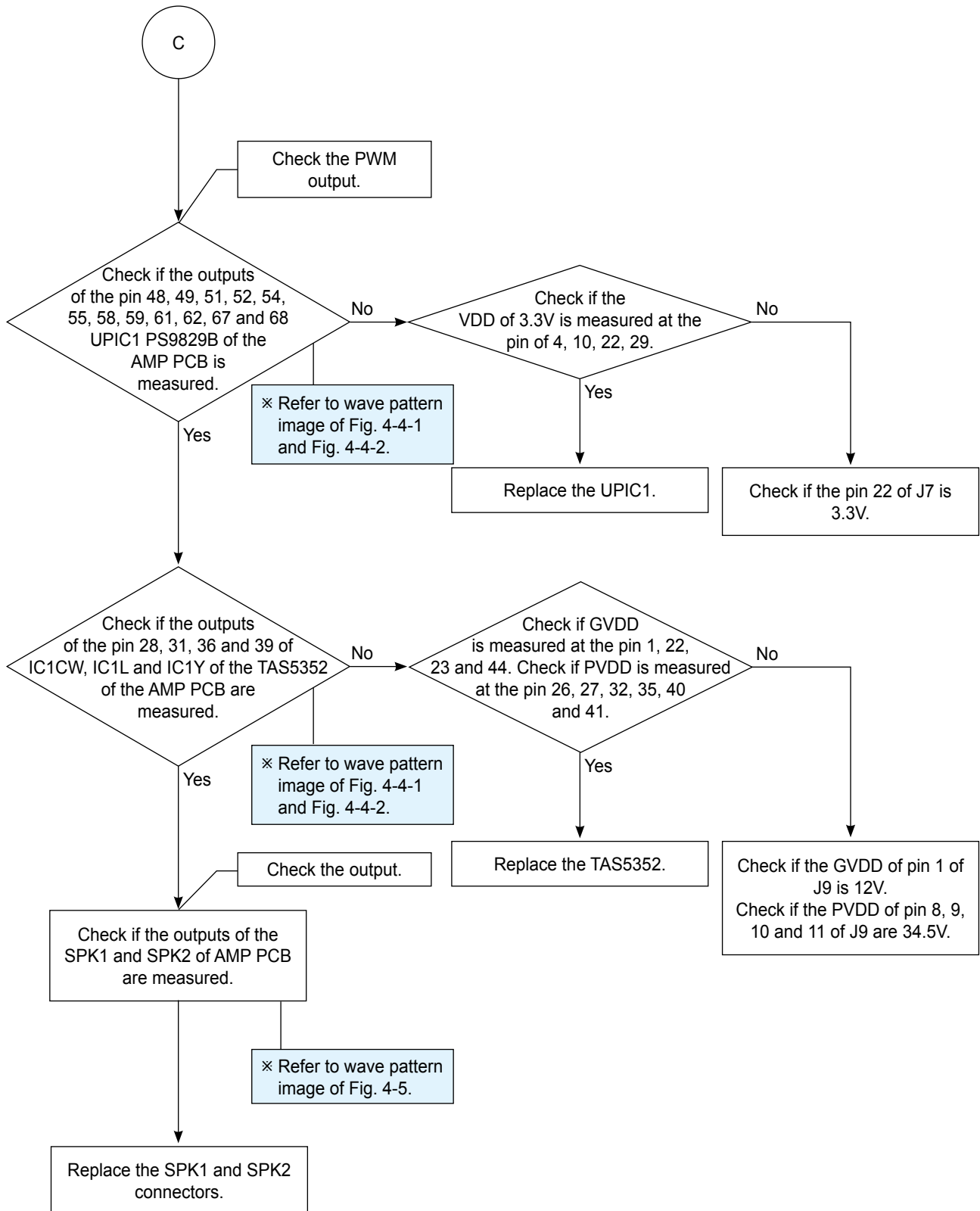




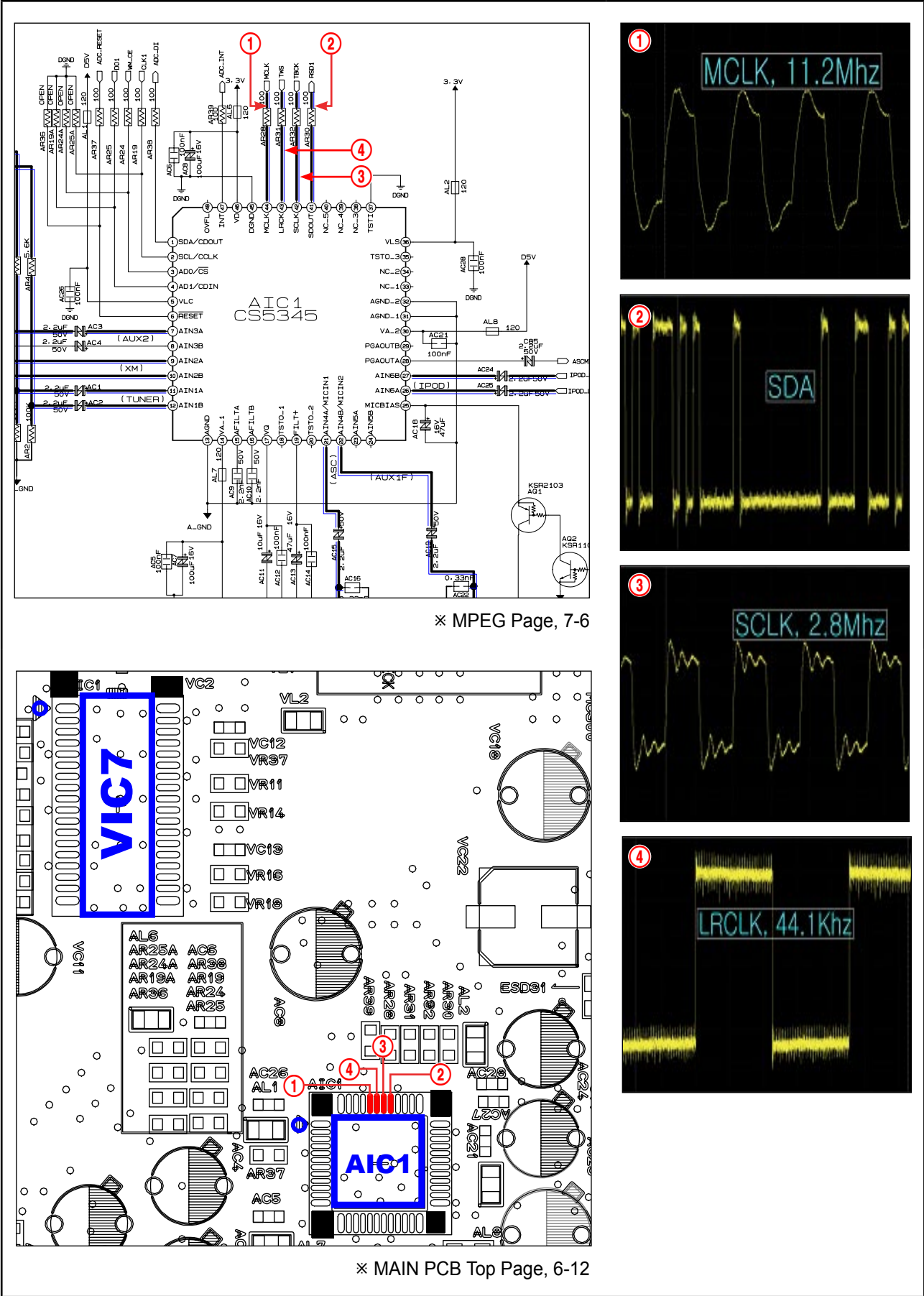
#### 4-1-2 No Sound (waveform when 1KHz, -20dB signal is input)



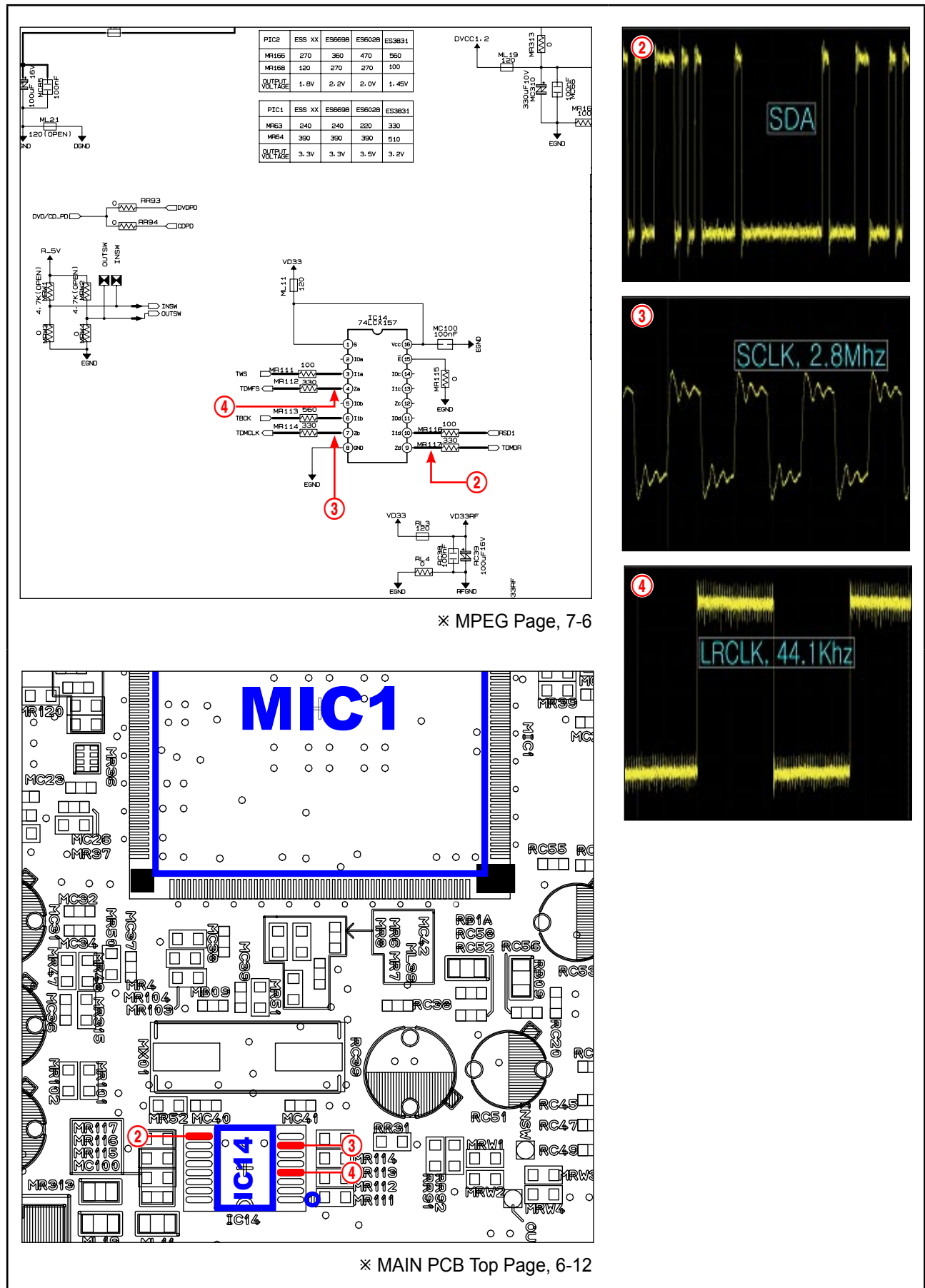








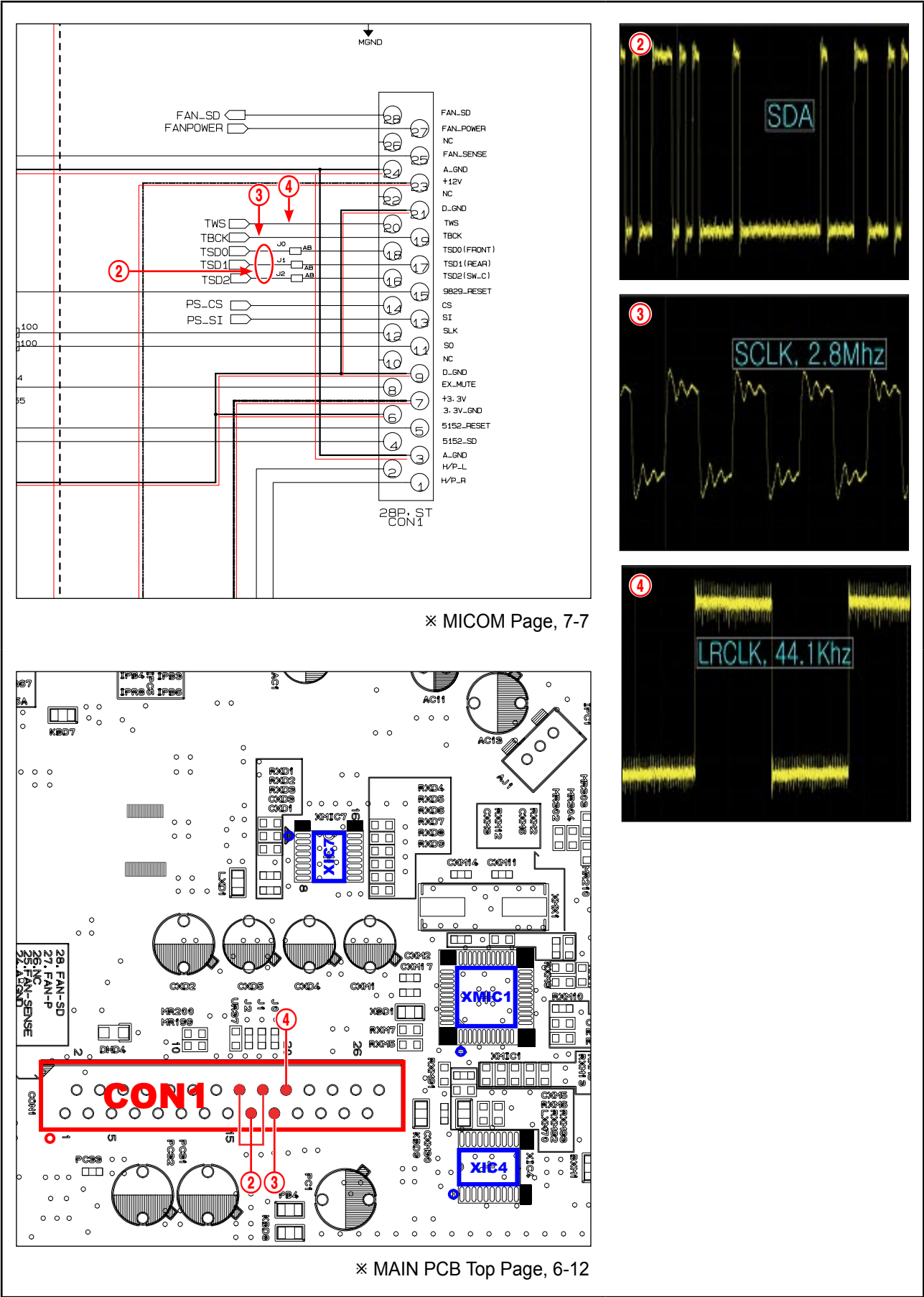
<Fig. 4-1>



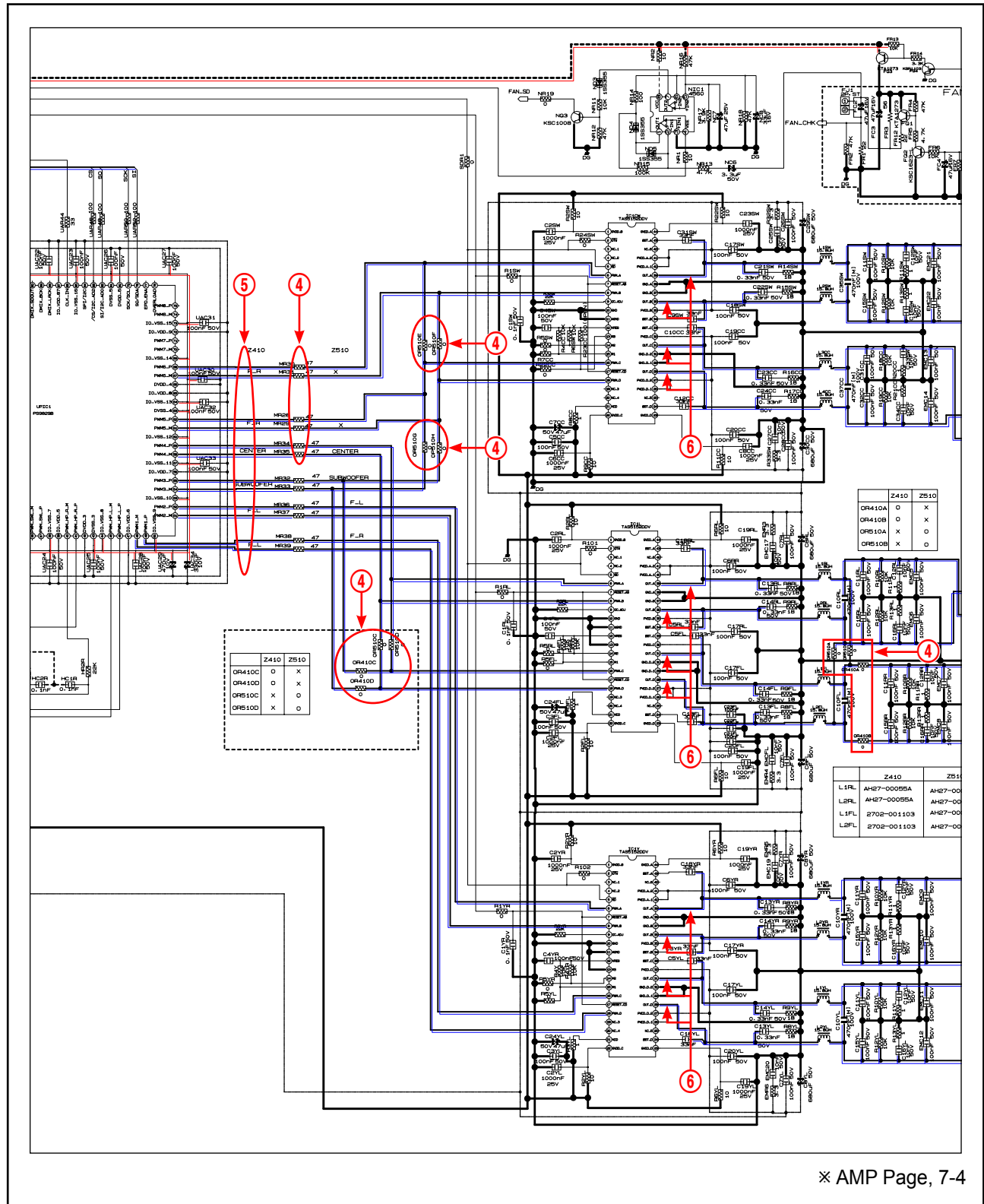
※ MPEG Page, 7-6

※ MAIN PCB Top Page, 6-12

<Fig. 4-2>

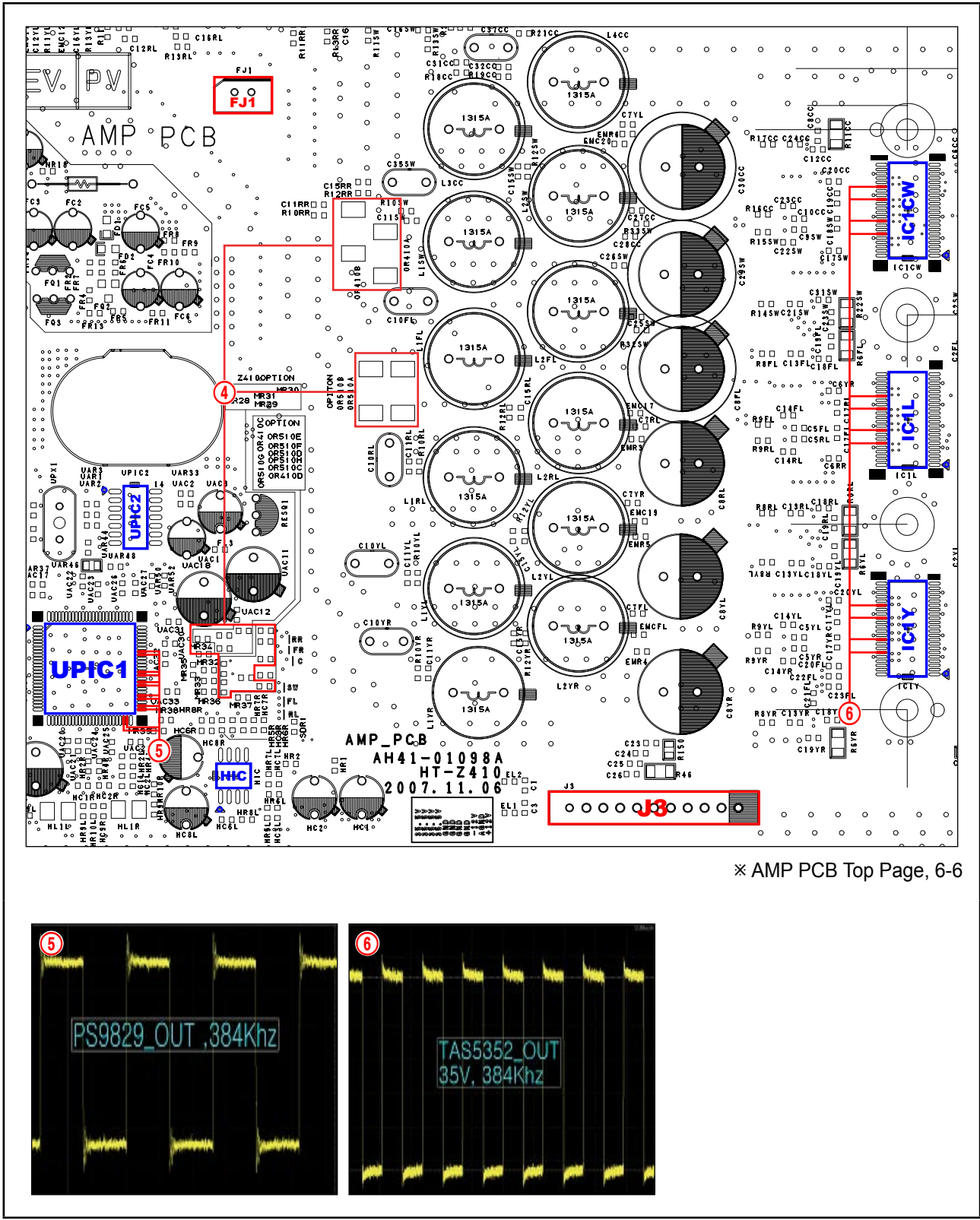


<Fig. 4-3>



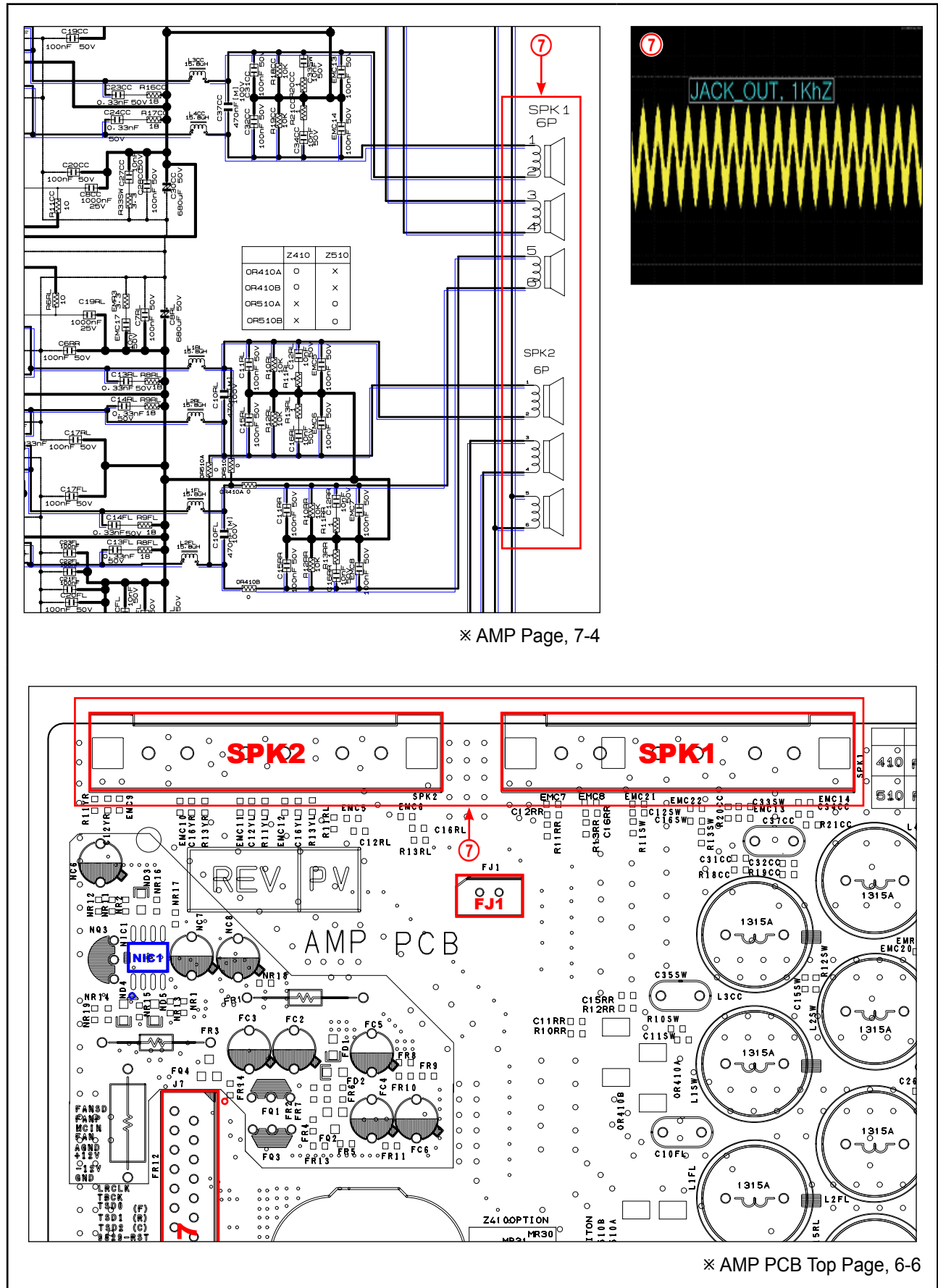
※ AMP Page, 7-4

<Fig. 4-4-1>



<Fig. 4-4-2>

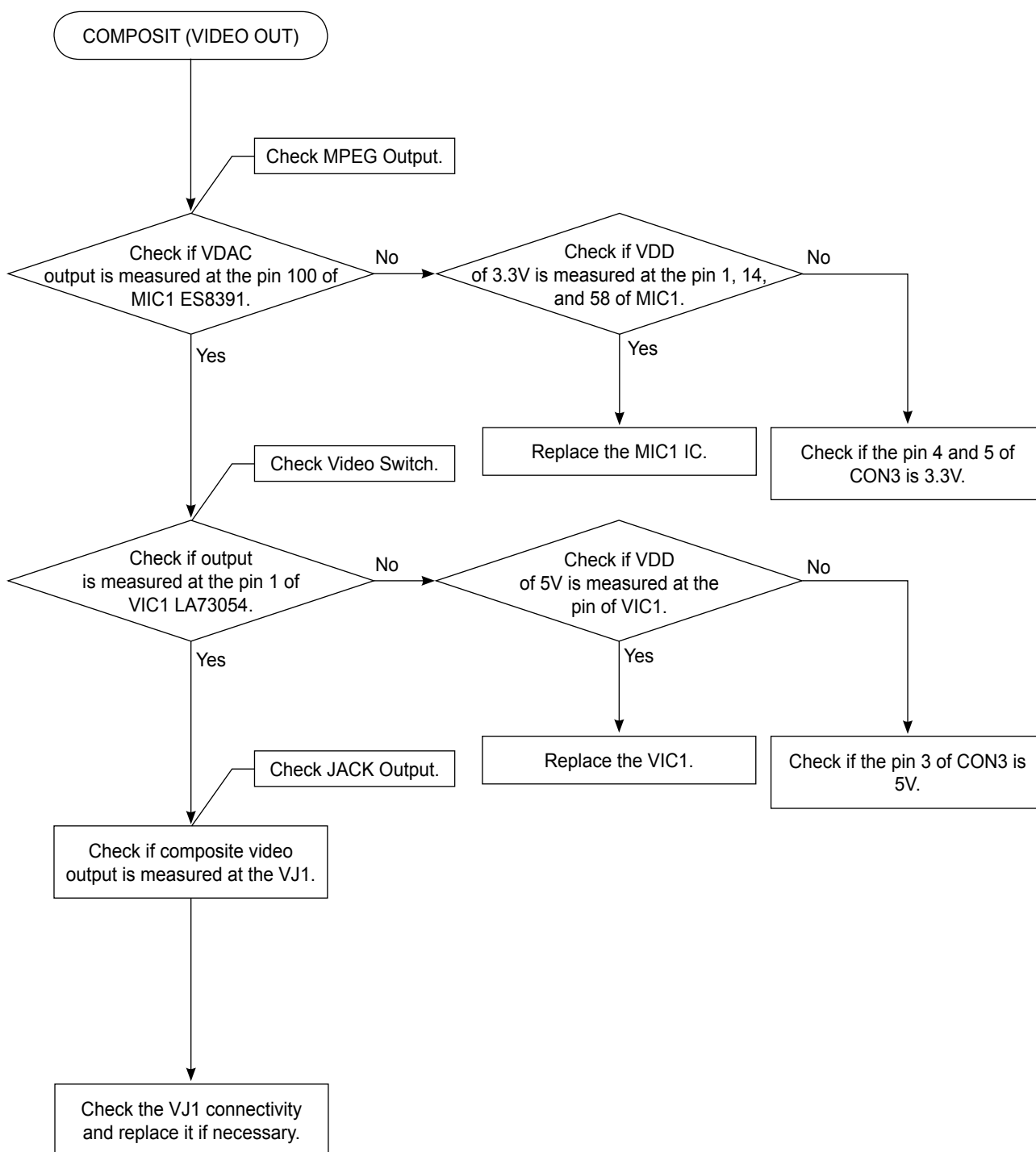




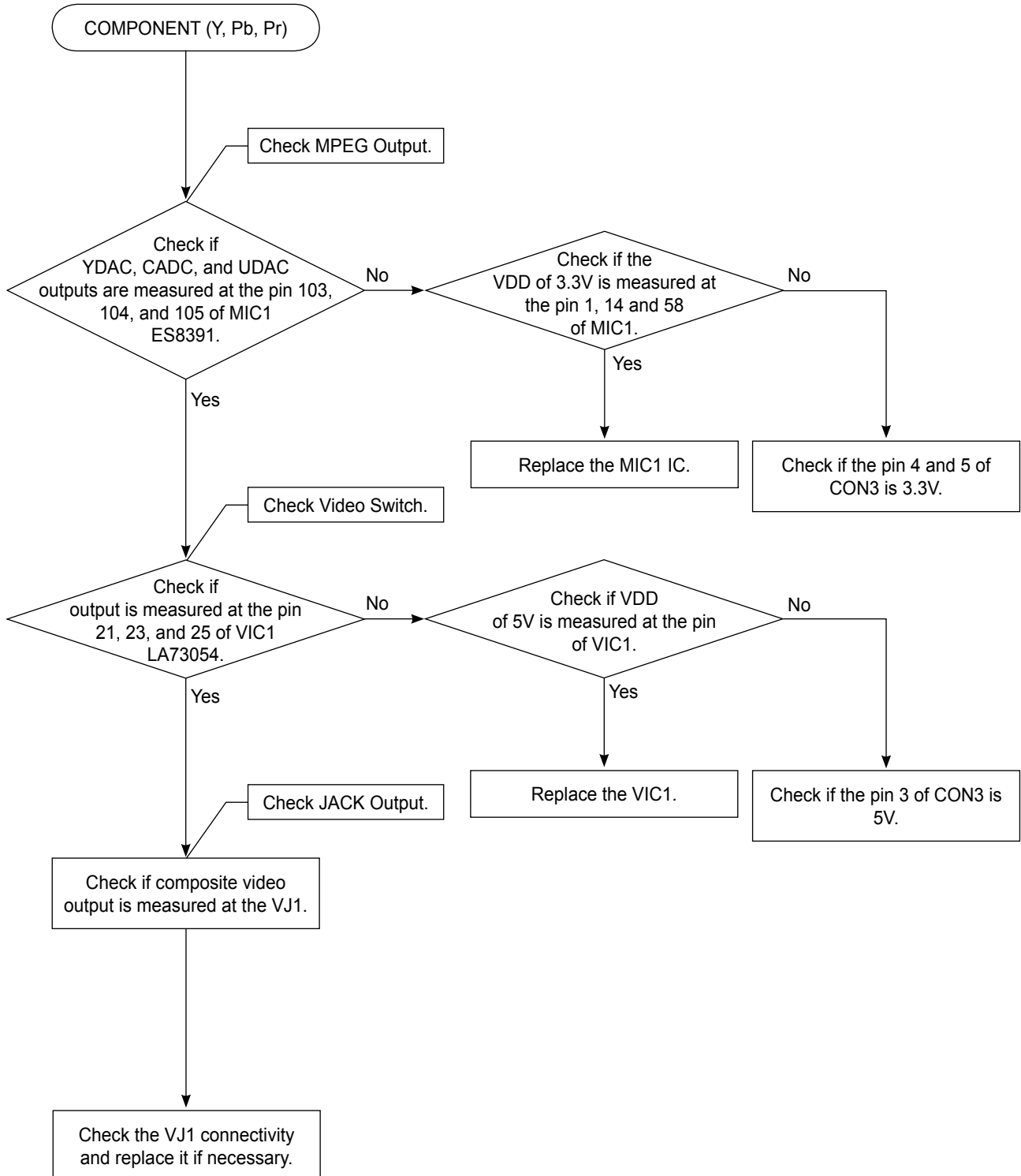
<Fig. 4-5>

### 4-1-3 No Analog Video Output

#### ■ COMPOSIT (VIDEO OUT)

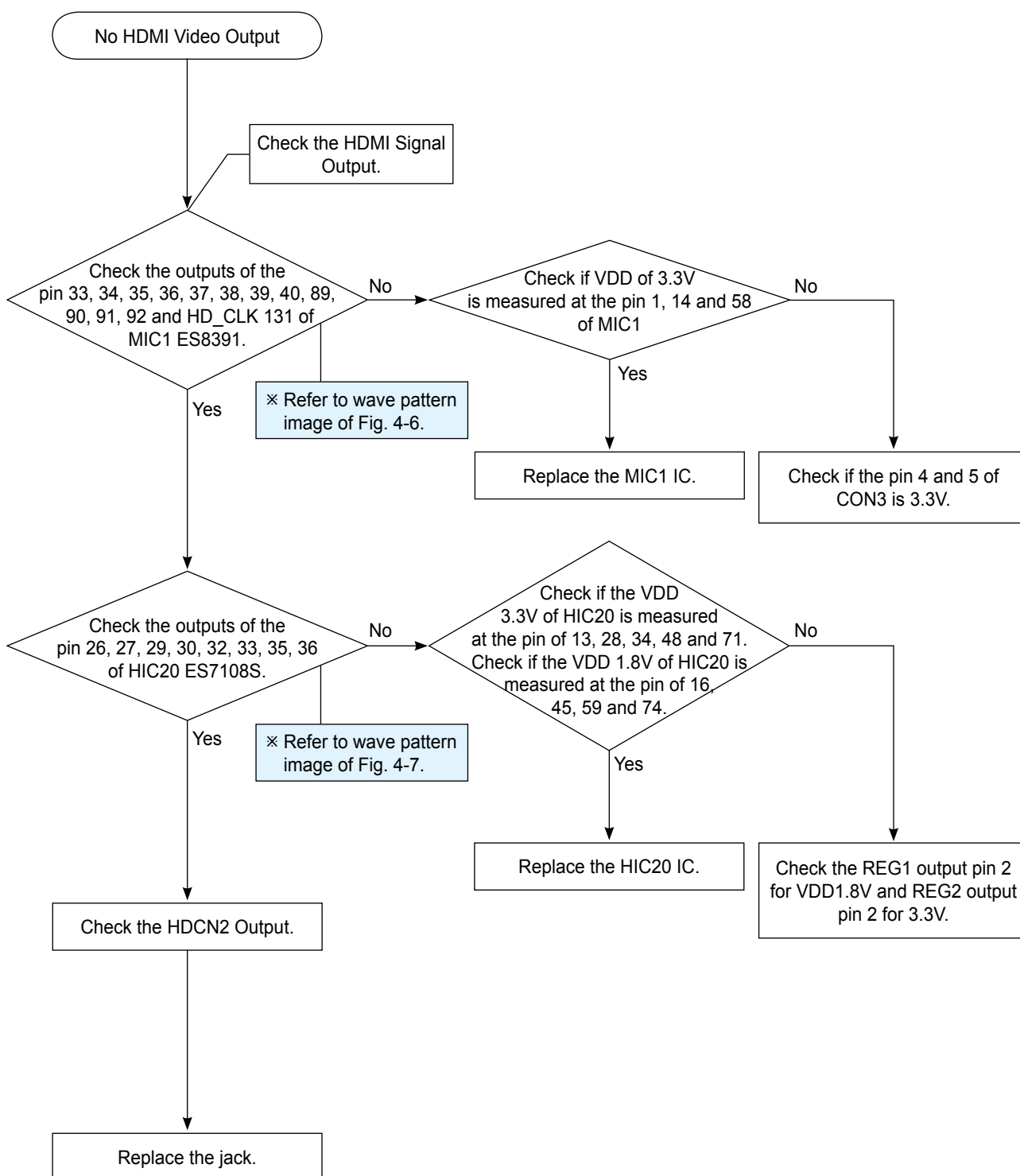


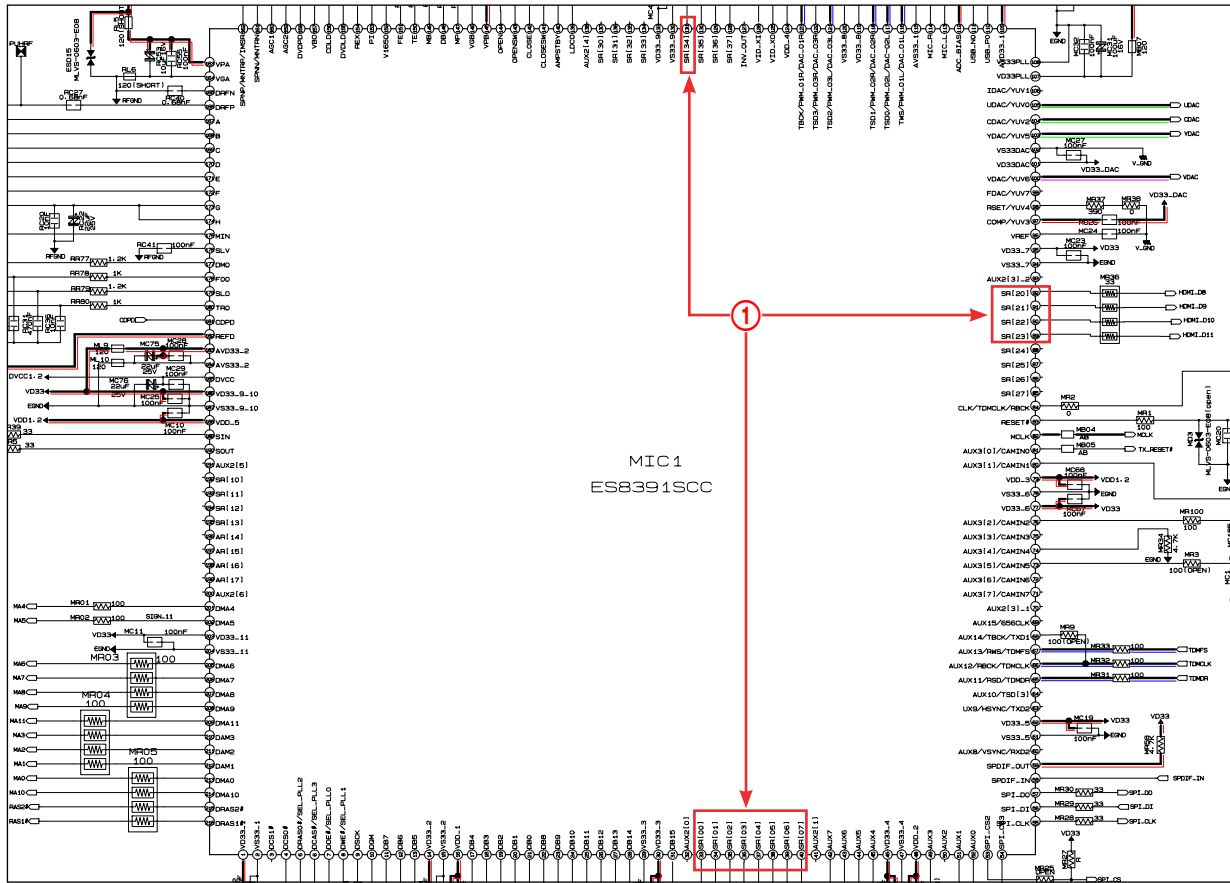
## ■ COMPONENT (Y, Pb, Pr)



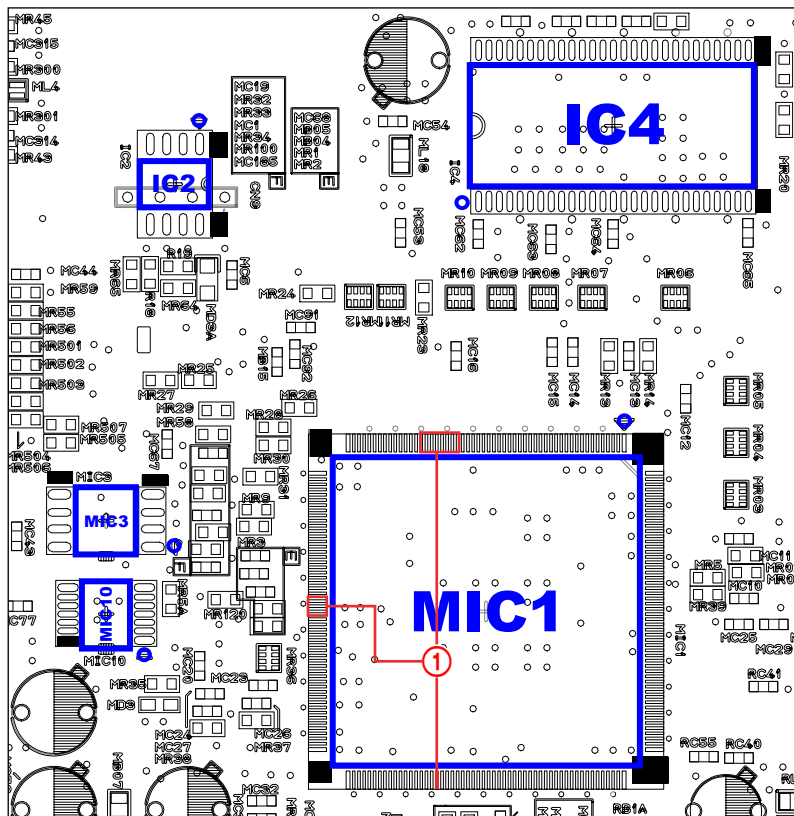


## 4-1-4 No HDMI Video Output





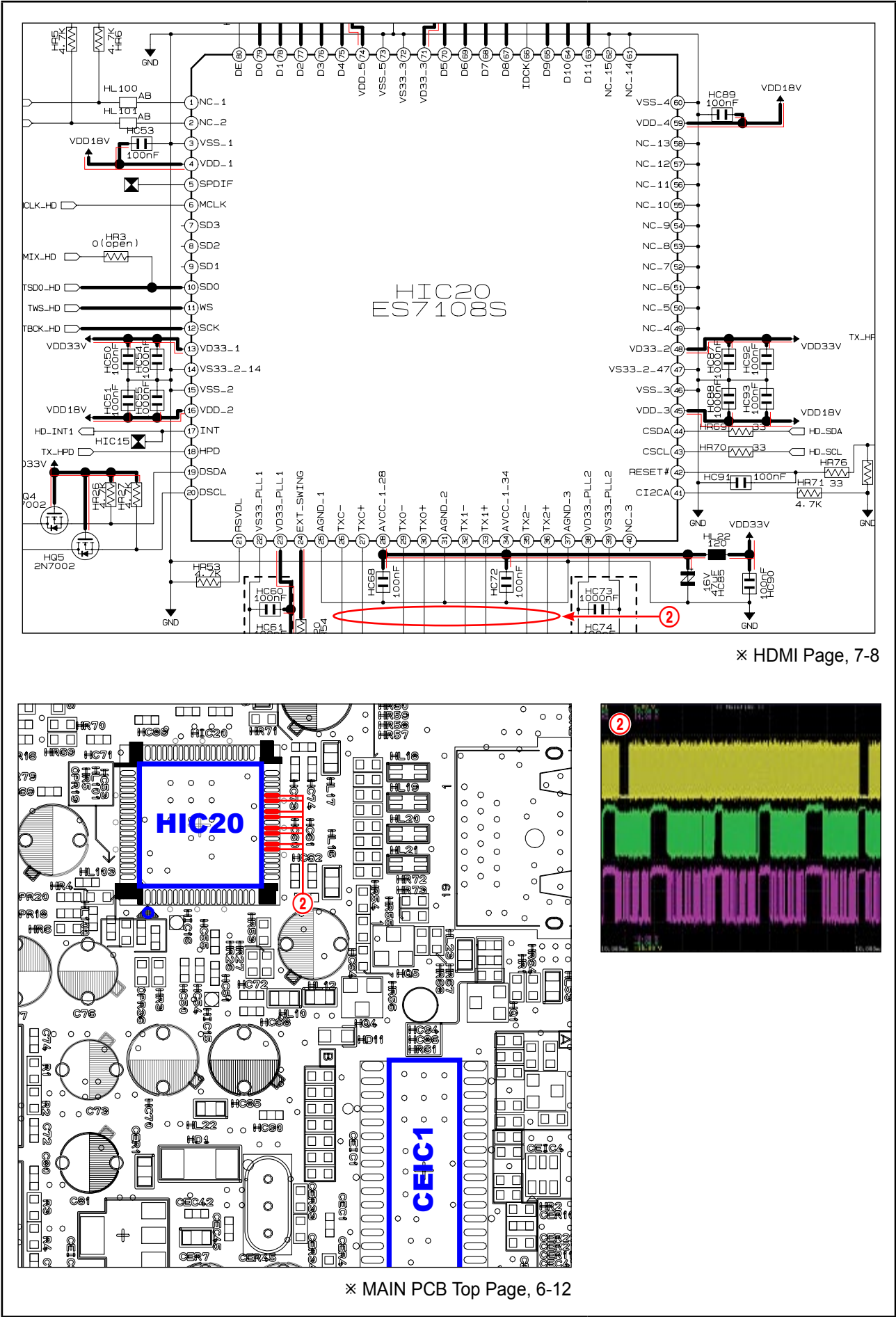
※ MPEG Page, 7-6



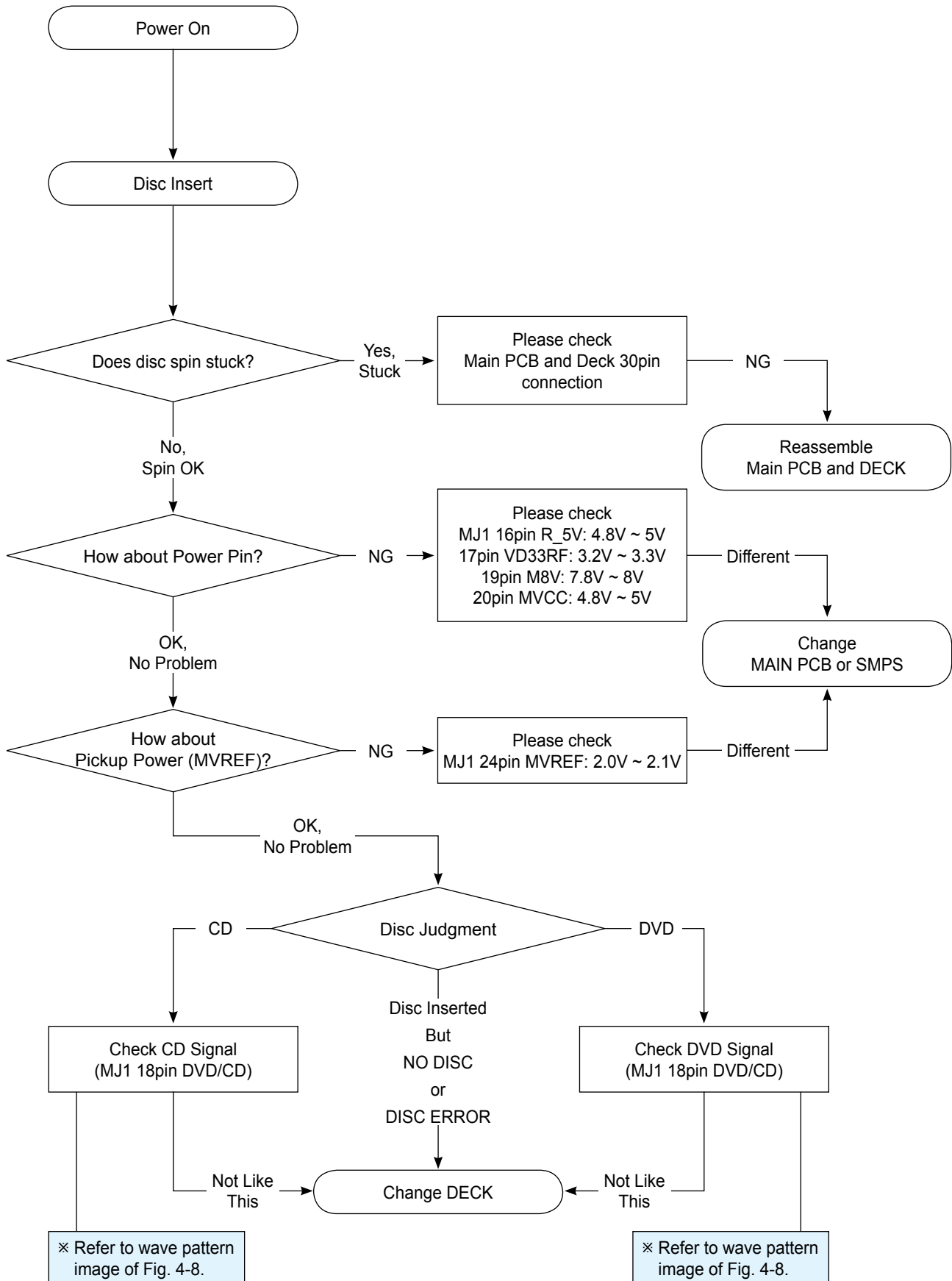
※ MAIN PCB Top Page, 6-12



<Fig. 4-6>



### 4-1-5 DECK Failure





Samsung Electronics

#### 4-2 Measures to be taken when the Protection Circuit operates

#### 4-2-1 Operation of Power Block Protection Circuit

The Condition of Power Protection Active.

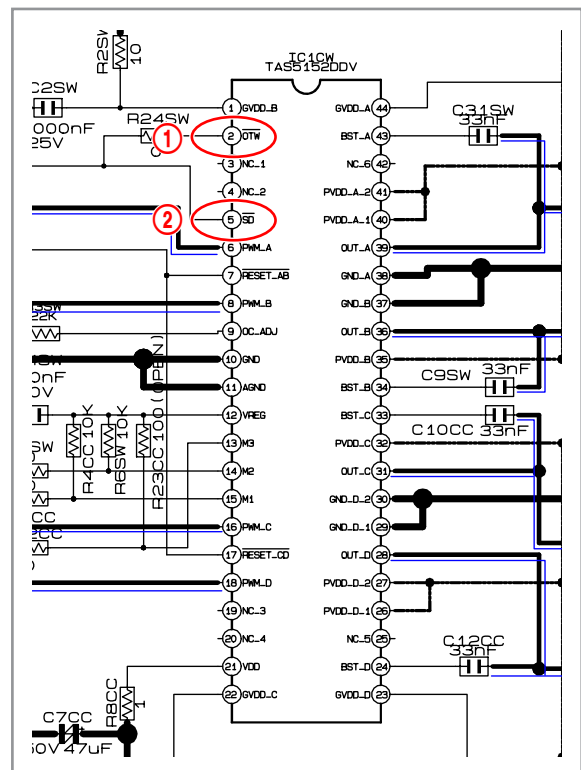
1. Voltage of SMPS's PVDD (+35V, J3) is higher or lower than Standards.  
Normal Condition Voltage Range: PVDD (+35V, J3): about 35V
2. Over-current occurs to AMP IC. (Over-output or Output short)
3. AMP IC's temperature exceed 150°C.
4. No supply voltage on GATE DRIVER.

| Z410/510<br>SMPS | Part<br>Location | Pin No.          | Protection Circuit Operation |       | Remark |
|------------------|------------------|------------------|------------------------------|-------|--------|
|                  |                  |                  | Open                         | Short |        |
|                  | CN3              | +8V              | X                            | -     |        |
|                  |                  | +5V              | X                            | ○     |        |
|                  |                  | +3.3V            | X                            | X     |        |
|                  |                  | +5.6V            | X                            | X     |        |
|                  |                  | -2               | X                            | X     |        |
|                  | J3               | PVDD (about 35V) | ○                            | ○     |        |
|                  |                  | -12V             | X                            | X     |        |
|                  |                  | +12V             | X                            | ○     |        |

<Table 4-1>

### 4-2-2 Power Protection

1. OTW: Active, IC's inner temperature exceeds over 150°C.  
(Under 2.7V, Protection Circuit wills Active)
2. TAS5352 3<sup>TH</sup> PIN: Shout down  
(Under 2.7V, Protection Circuit wills Active)



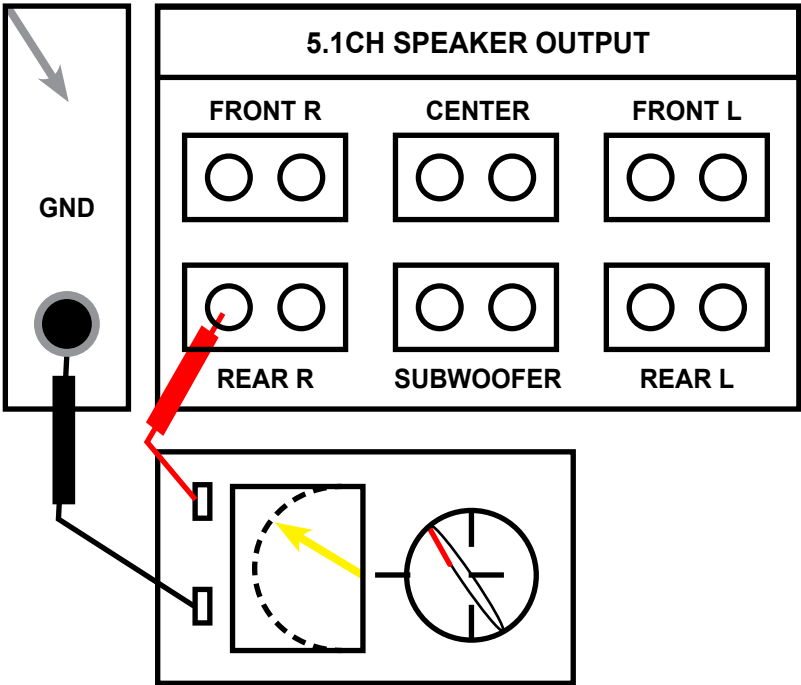
<Fig. 4-9>

4-2-3 Check AMP in Power Protection

You can check AMP malfunction before disassembling Main Unit (Do NOT Insert AC-Cord in AC-Socket)

| Resistance in using Tester |      |
|----------------------------|------|
| F/R CH                     | 10kΩ |
| CENTER                     | 10kΩ |
| SUBWOOFER                  | 10kΩ |

<Table 4-2>



## 4-3 Initialization & Upgrade Methods

### 4-3-1 MICOM Initialization & Update

#### ■ MICOM Initial

In STANDBY condition, press "STOP" button of Main Unit 5 seconds more, STANDBY RED LED will go out and go on. Then Initialization complete.

#### ■ MICOM Update

1. At Bottom side of Main Unit, Connecting 6 pin cable.

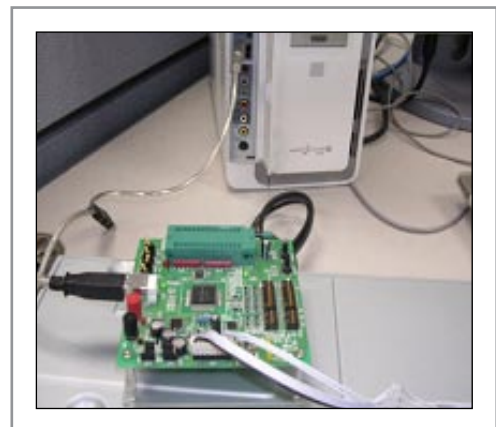


<Fig. 4-10 Connecting 6 Pin>

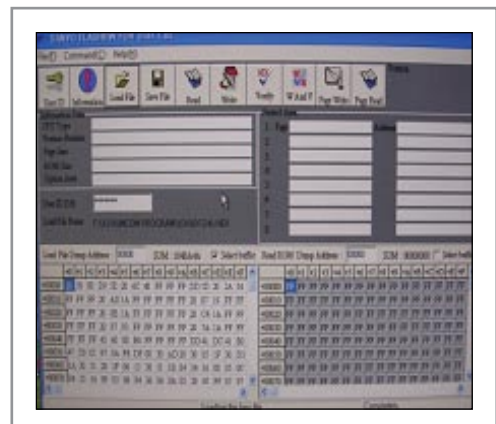
2. Wire to Update connector-look like an oval hole then update start.

※ Required Equipment:  
Computer, Rom Writer, Connecting Cable, Update Program.

※ Update is available Only OTP type MICOM.



<Fig. 4-11 Connecting Rom writer>



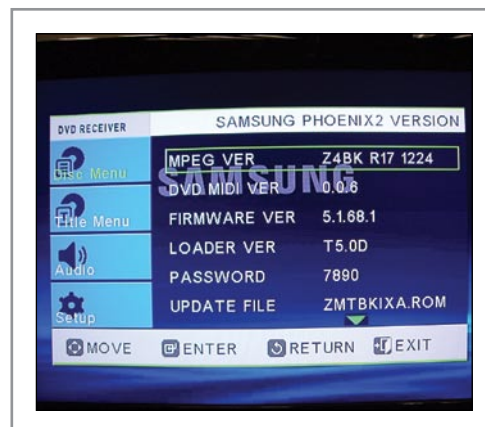
<Fig. 4-12 Update Program>



## 4-3-2 DVD flash Initialization & Update

### ■ Checking out MICOM & MPEG flash Version

1. Play DVD-DISC or CD-DISC.
2. Open DISC-TRAY, Press "MENU" button on the Remote Control.
3. Press "8", "9", "5" one by one, then MPEG version will be displayed on the screen and MICOM version on the front display.



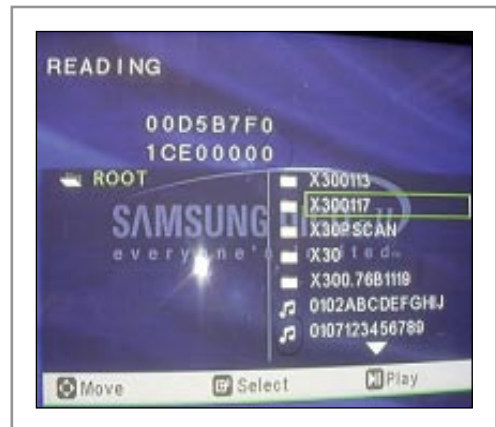
<Fig. 4-13 Version>

## ■ DVD flash Initialization & Update (firmware)

1. Prepare or Making CD/DVD or USB that contains HEX file for Update.
2. Select the folder which has update file, then 'Updating' will appear on the screen.  
After completing the update, the power will go out and on, then tray will open automatically.
3. Make the unit 'NO DISC' state if there is a disc and then close the tray.
4. Press "STOP" button of Main Unit 5 seconds more, Display Indicator shows 'INITIALIZE' then Power go out.
5. Initialization complete.



<Fig. 4-14 Connecting USB>



<Fig. 4-15 TV Display (On Updating)>



<Fig. 4-16 Update Start>

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## 5. Exploded View & Part List

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5-1 HT-Z410T/XAA Exploded View .....5-2

5-2 HT-Z510T/XAA Exploded View .....5-4

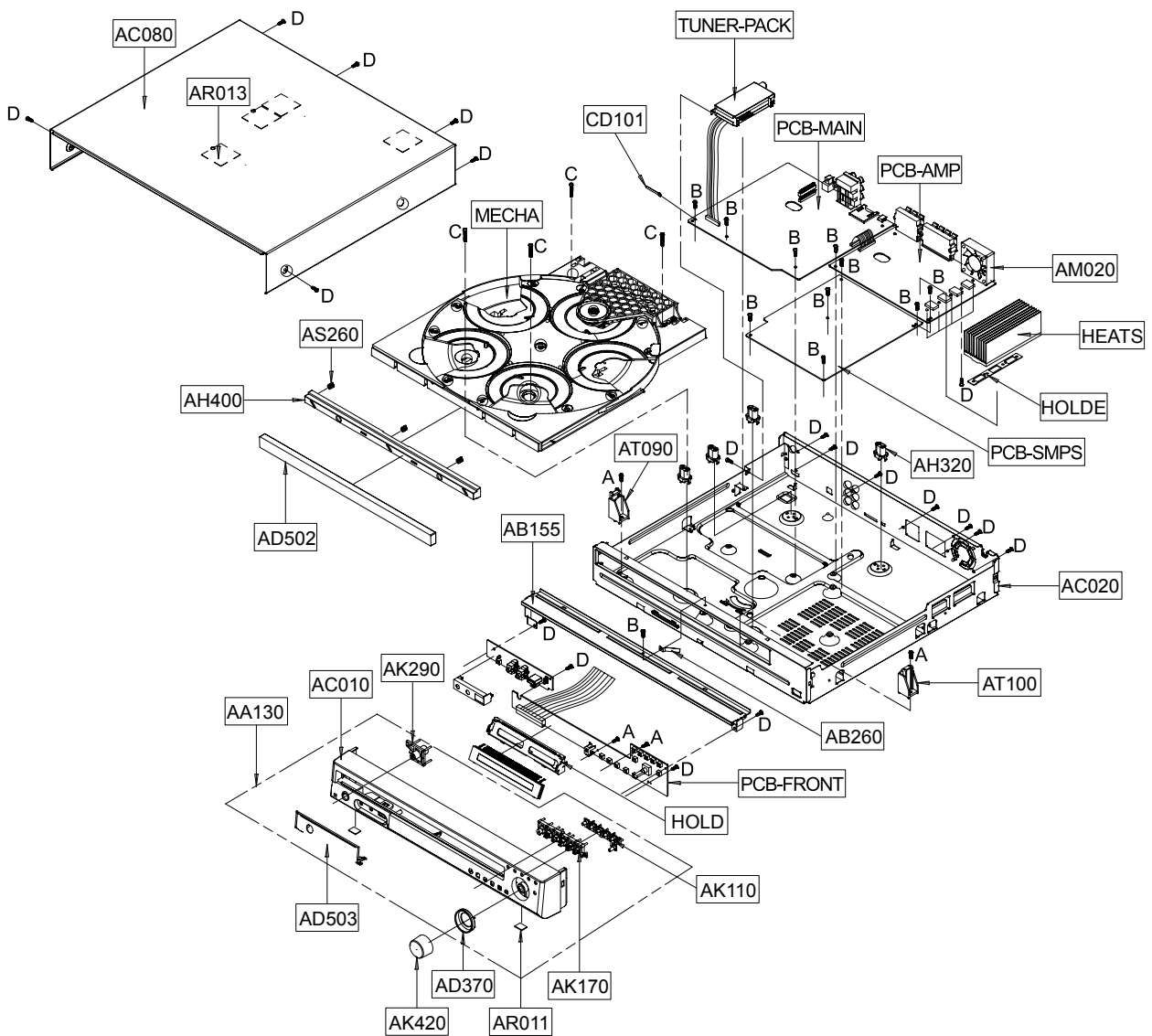
5-3 HT-Z410 Speaker System.....5-6

5-4 HT-Z510 Speaker System.....5-7

5-5 HT-Z410T/XAA Electrical Part List .....5-8

5-6 HT-Z510T/XAA Electrical Part List .....5-22

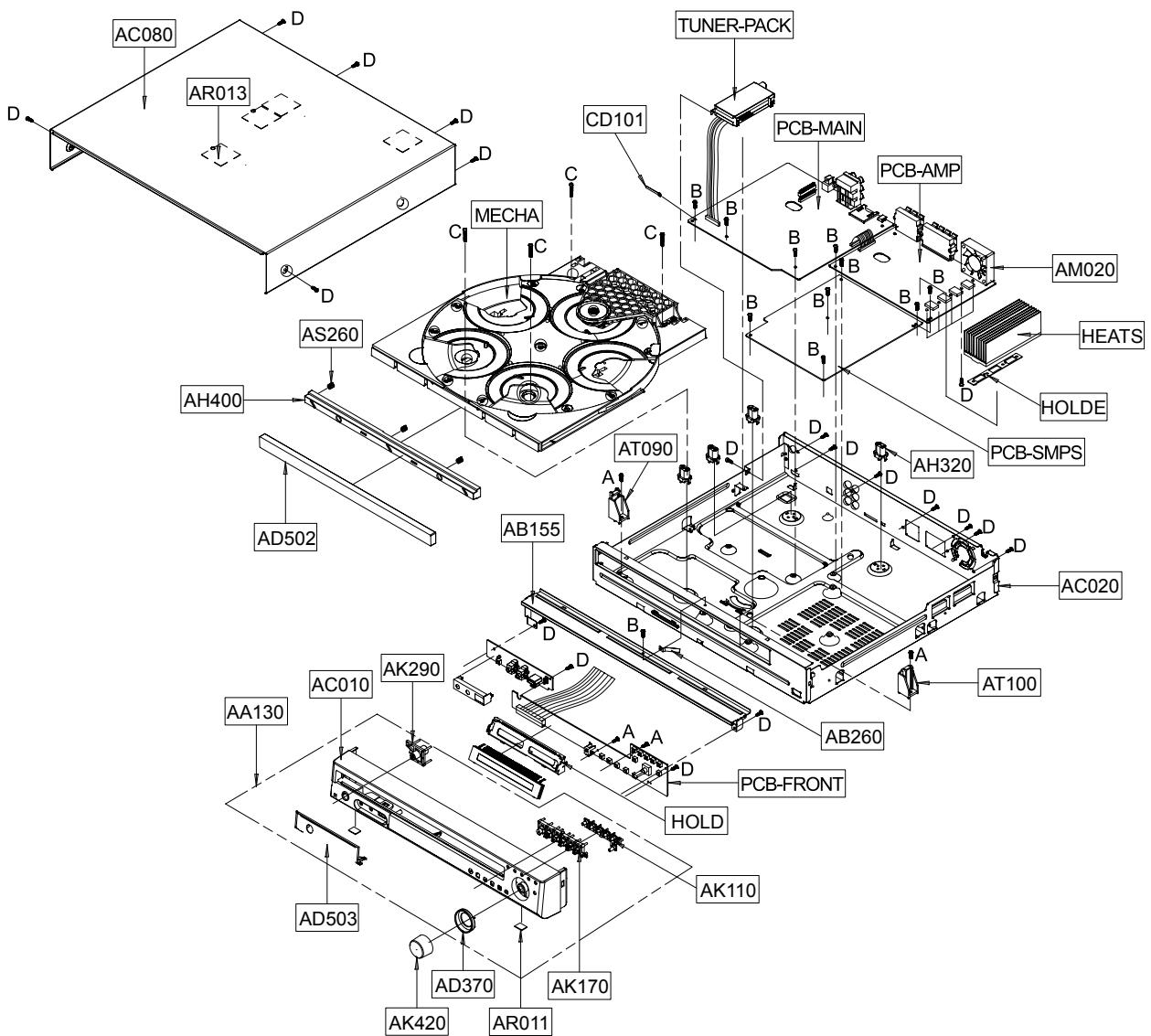
## 5-1 HT-Z410T/XAA Exploded View



## ■ Part List

| Loc. No.   | Code No.    | Description;Specification                | Q'ty | SNA | Remark |
|------------|-------------|------------------------------------------|------|-----|--------|
| AA130      | AH97-02501A | ASSY-FRONT;ABS+PMMA,HT-Z510,ASSY         | 1    | SA  |        |
| AB155      | AH61-02522A | BRACKET-FRONT;HT-Z410/510,SECC,T0.8,W414 | 1    | SA  |        |
| AB260      | AH61-10513A | BRACKET-PCB;DAT7000,SUN,T2.0,W85,L105,GR | 1    | SNA |        |
| AC010      | AH64-04479B | CABINET FRONT;HT-Z510,ABS+PMMA,T2.5,W430 | 1    | SNA |        |
| AC020      | AH64-03822V | CABINET-BOTTOM;HT-Z510,SECC,T0.6,W324,L4 | 1    | SNA |        |
| AC080      | AH64-03823A | CABINET-TOP;HT-Q40,SECC,0.6T,-,-,-,-,-   | 1    | SNA |        |
| AD370      | AH64-04480B | DECORATION-VOLUME;HT-Z410/510,ABS MILKY, | 1    | SA  |        |
| AD502      | AH64-04481A | DOOR-DVD;HT-Z410/510,ABS+PMMA,T1.8,18.8  | 1    | SNA |        |
| AD503      | AH64-04482B | DOOR-FRONT;HT-Z510,ABS+PMMA,T1.0,W2.5,L1 | 1    | SA  |        |
| AH320      | AH61-02059A | HOLDER-MECHA;HT-P29,ABS,-,-,-,-,-        | 4    | SNA |        |
| AH400      | AH61-02323A | HOLDER-TRAY;HT-X50,ABS,-,-,-,-,-         | 1    | SNA |        |
| AK110      | AH64-04483A | KNOB-DIRECT;HT-Z410/510,ABS,T1.8,W354,L1 | 1    | SA  |        |
| AK170      | AH64-04476A | KNOB-FUNCTION;HT-Z410/510,ABS,T2.5,W125, | 1    | SA  |        |
| AK290      | AH64-04477A | KNOB-POWER;HT-Z410/510,ABS,T2.5,W35,L38, | 1    | SA  |        |
| AK420      | AH64-04478A | KNOB-VOLUME;HT-Z410/510,ABS+PMMA,T2.5,W2 | 1    | SA  |        |
| AM020      | AH31-00039B | MOTOR FAN;C151BK10A2430,RDM5015S,0.12A,- | 1    | SA  |        |
| AR011      | AH73-00005A | RUBBER FOOT;EVA,11.5*9,MAX960/OTTO,-     | 2    | SNA |        |
| AR013      | AH73-00072A | RUBBER CUSHION-SENSOR;HT-DS600,HEMERON   | 3    | SNA |        |
| AS260      | AH61-02324A | SPRING ETC-DOOR;HT-X50,AL,-,-,-,-,-,-,-, | 3    | SA  |        |
| AT090      | AH63-01092A | TRAY-SUPPORT,L;HT-P29,POM BLACK,-,-,-,-, | 1    | SNA |        |
| AT100      | AH63-01093A | TRAY-SUPPORT,R;HT-P29,POM BLACK,-,-,-,-, | 1    | SNA |        |
| BRK        | AH63-01333A | SHIELD-JACK;HT-X51H,SPTE,T0.3,-,-,-,-,-  | 1    | SA  |        |
| CD101      | AH65-30010A | CLAMP-WIRE;-,-,-,-,-,-,-                 | 3    | SNA |        |
| HEATS      | AH62-00180A | HEAT SINK;HT-Z410/510,AL,T3,W122,L30,WHT | 1    | SA  |        |
| HOLD       | AH61-02520A | HOLDER-VFD;HT-Z410/510,ABS,T1.5,W135,L34 | 1    | SA  |        |
| HOLDE      | AH61-02526A | HOLDER-IC;HT-Z210,ABS,T0.9,W150,-,-,-    | 1    | SA  |        |
| MECHA      | AH97-02597A | ASSY DVD DECK-5DVD;XAA,CMS-S75,SDM-R51   | 1    | SA  |        |
| PCB-AMP    | AH92-02784A | ASSY PCB-AMP;HT-Z410,AMP ASSY            | 1    | SA  |        |
| PCB-FRONT  | AH92-02783A | ASSY PCB-FRONT;HT-Z410,FRONT ASSY        | 1    | SA  |        |
| PCB-MAIN   | AH92-02782A | ASSY PCB-MAIN;HT-Z410,MAIN ASSY          | 1    | SA  |        |
| PCB-SMPS   | AH44-00150A | SMPS;HT-X50,ORTP-617,AC/DC,1000W/12      | 1    | SA  |        |
| TUNER-PACK | AH40-00089A | TUNER-PACK;KST-ML001FA0-52S,FM,-,-,-,-,- | 1    | SA  |        |
| A          | 6003-001375 | SCREW-TAPTITE;BH,+,-,B,M3,L8,ZPC(WHT),SW | 2    | SNA |        |
| B          | 6003-001561 | SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(WHT),SW | 11   | SNA |        |
| C          | 6003-000280 | SCREW-TAPTITE;BH,+,-,B,M3,L25,ZPC(WHT),S | 4    | SNA |        |
| D          | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S | 18   | SNA |        |

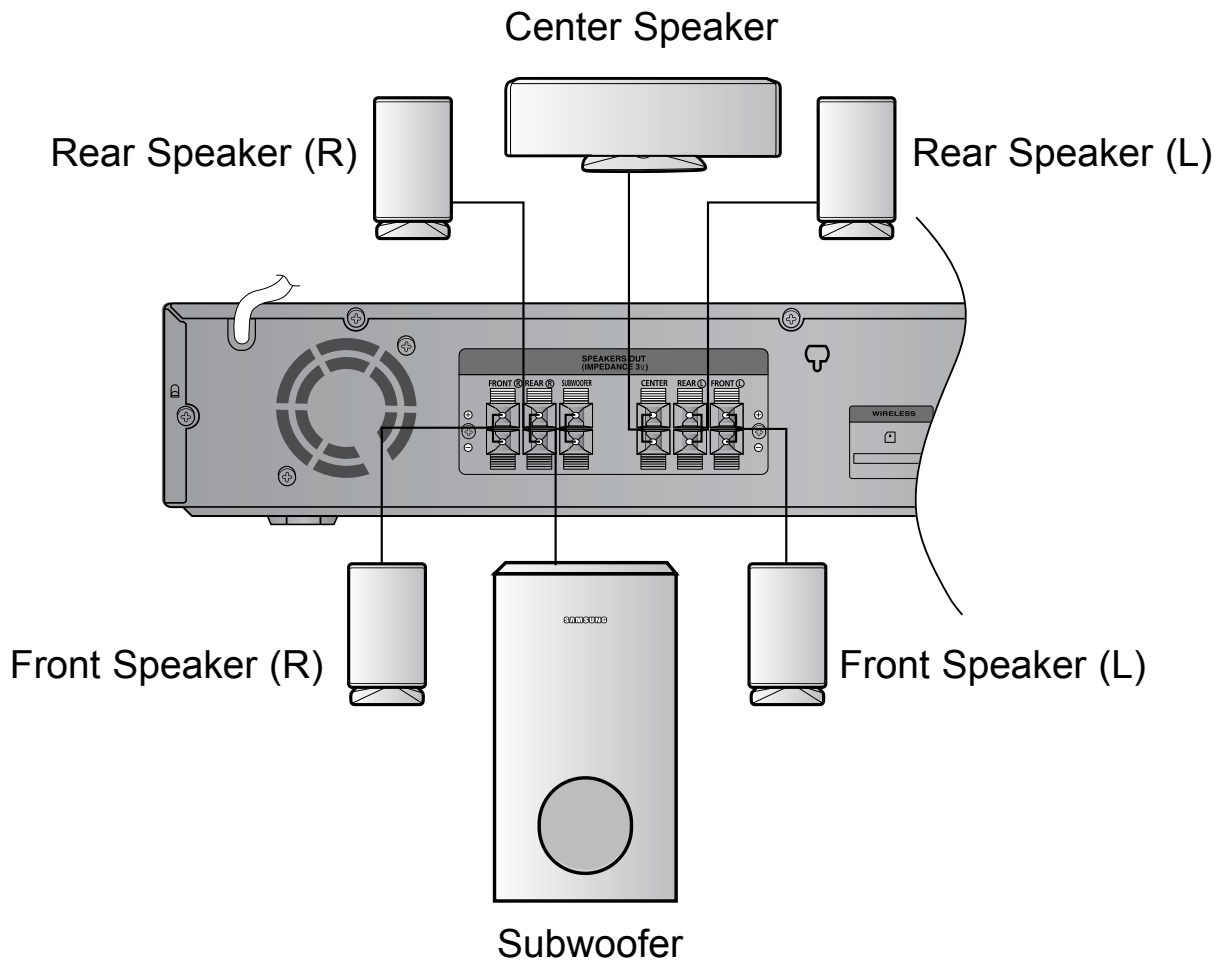
## 5-2 HT-Z510T/XAA Exploded View



## ■ Part List

| Loc. No.   | Code No.    | Description;Specification                 | Q'ty | SNA | Remark |
|------------|-------------|-------------------------------------------|------|-----|--------|
| AA130      | AH97-02501C | ASSY-FRONT;ABS+PMMA,HT-Z410/510,ASSY      | 1    | SA  |        |
| AB155      | AH61-02522A | BRACKET-FRONT;HT-Z410/510,SECC,T0.8,W414  | 1    | SA  |        |
| AB260      | AH61-10513A | BRACKET-PCB;DAT7000,SUN,T2.0,W85,L105,GR  | 1    | SNA |        |
| AC010      | AH64-04479D | CABINET-FRONT;HT-Z510,ABS+PMMA,T2.5,W430  | 1    | SNA |        |
| AC020      | AH64-03822X | CABINET-BOTTOM;HT-Z510,SECC,T0.6,W324,L4  | 1    | SA  |        |
| AC080      | AH64-03823A | CABINET-TOP;HT-Q40,SECC,0.6T,-,-,-,-,-    | 1    | SNA |        |
| AD370      | AH64-04480B | DECORATION-VOLUME;HT-Z410/510,ABS MILKY,  | 1    | SA  |        |
| AD502      | AH64-04481A | DOOR-DVD;HT-Z410/510,ABS+PMMA,T1.8,18.8   | 1    | SNA |        |
| AD503      | AH64-04482B | DOOR-FRONT;HT-Z510,ABS+PMMA,T1.0,W2.5,L1  | 1    | SA  |        |
| AH320      | AH61-02059A | HOLDER-MECHA;HT-P29,ABS,-,-,-,-,-         | 4    | SNA |        |
| AH400      | AH61-02323A | HOLDER-TRAY;HT-X50,ABS,-,-,-,-,-          | 1    | SNA |        |
| AK110      | AH64-04483A | KNOB-DIRECT;HT-Z410/510,ABS,T1.8,W354,L1  | 1    | SA  |        |
| AK170      | AH64-04476A | KNOB-FUNCTION;HT-Z410/510,ABS,T2.5,W125,  | 1    | SA  |        |
| AK290      | AH64-04477A | KNOB-POWER;HT-Z410/510,ABS,T2.5,W35,L38,  | 1    | SA  |        |
| AK420      | AH64-04478A | KNOB-VOLUME;HT-Z410/510,ABS+PMMA,T2.5,W2  | 1    | SA  |        |
| AM020      | AH31-00039B | MOTOR FAN;C151BK10A2430,RDM5015S,0.12A,-  | 1    | SA  |        |
| AR011      | AH73-00005A | RUBBER FOOT;EVA,11.5*9,MAX960/OTTO,-      | 2    | SNA |        |
| AR013      | AH73-00072A | RUBBER CUSHION-SENSOR;HT-DS600,HEMERON S  | 3    | SNA |        |
| AS260      | AH61-02324A | SPRING ETC-DOOR;HT-X50,AL,-,-,-,-,-,-,-   | 3    | SA  |        |
| AT090      | AH63-01092A | TRAY-SUPPORT,L;HT-P29,POM BLACK,-,-,-,-,- | 1    | SNA |        |
| AT100      | AH63-01093A | TRAY-SUPPORT,R;HT-P29,POM BLACK,-,-,-,-,- | 1    | SNA |        |
| BRK        | AH63-01333A | SHIELD-JACK;HT-X51H,SPTE,T0.3,-,-,-,-,-   | 1    | SA  |        |
| CD101      | AH65-30010A | CLAMP-WIRE;-,-,-,-,-,-,-                  | 3    | SNA |        |
| HEATS      | AH62-00180A | HEAT SINK;HT-Z410/510,AL,T3,W122,L30,WHT  | 1    | SA  |        |
| HOLD       | AH61-02520A | HOLDER-VFD;HT-Z410/510,ABS,T1.5,W135,L34  | 1    | SA  |        |
| HOLDE      | AH61-02526A | HOLDER-IC;HT-Z210,ABS,T0.9,W150,-,-,-     | 1    | SA  |        |
| MECHA      | AH97-02597A | ASSY DVD DECK-5DVD;XAA,CMS-S75,SDM-R51    | 1    | SA  |        |
| PCB-AMP    | AH92-02787A | ASSY PCB-AMP;HT-Z510,AMP ASSY             | 1    | SA  |        |
| PCB-FRONT  | AH92-02783A | ASSY PCB-FRONT;HT-Z410,FRONT ASSY         | 1    | SA  |        |
| PCB-MAIN   | AH92-02786A | ASSY PCB-MAIN;HT-Z510,MAIN ASSY           | 1    | SA  |        |
| PCB-SMPS   | AH44-00150A | SMPS;HT-X50,ORTP-617,AC/DC,1000W/12       | 1    | SA  |        |
| TUNER-PACK | AH40-00089A | TUNER-PACK;KST-ML001FA0-52S,FM,-,-,-,-,-  | 1    | SA  |        |
| A          | 6003-001375 | SCREW-TAPTITE;BH,+,-,B,M3,L8,ZPC(WHT),SW  | 2    | SNA |        |
| B          | 6003-001561 | SCREW-TAPTITE;BH,+,-,B,M3,L6,ZPC(WHT),SW  | 11   | SNA |        |
| C          | 6003-000280 | SCREW-TAPTITE;BH,+,-,B,M3,L25,ZPC(WHT),S  | 4    | SNA |        |
| D          | 6003-000275 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S  | 18   | SNA |        |

## 5-3 HT-Z410 Speaker System

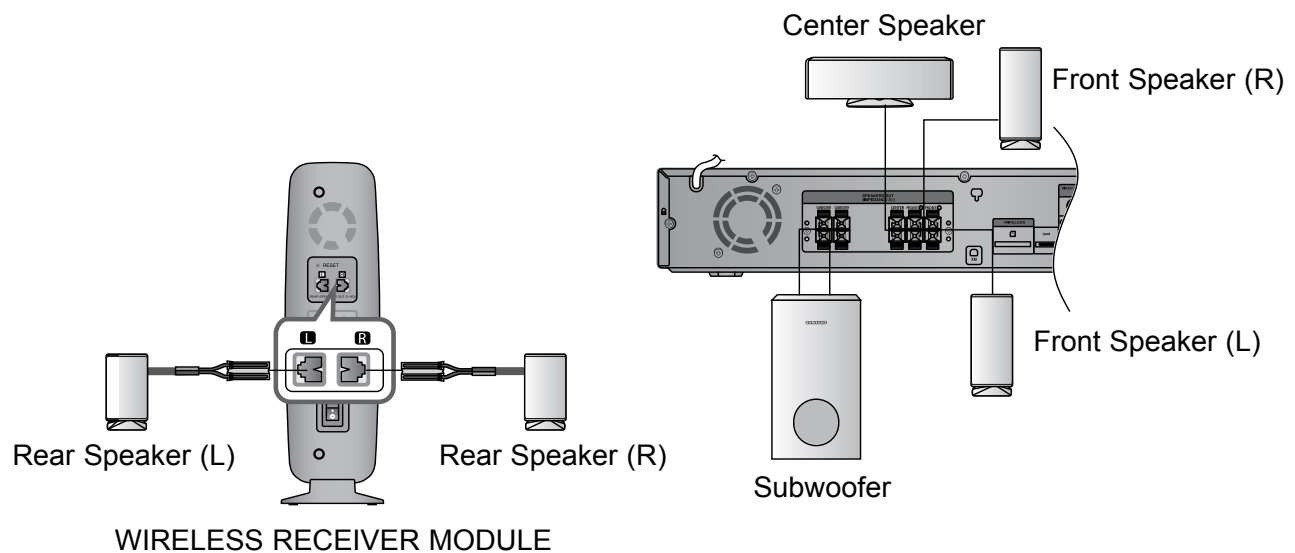


### ■ Part List

| Loc. No.          | Code No.    | Description;Specification                                                                                          | Q'ty | SNA | Remark |
|-------------------|-------------|--------------------------------------------------------------------------------------------------------------------|------|-----|--------|
| Front Speaker (R) | AH81-03848K | SPEAKER-FRONT RIGHT SPK SYSTEM; FRONT RIGHT SPK SYST,PART FOR PS-Z410,-,-,-,-                                      | 1    | SA  |        |
| Front Speaker (L) | AH81-03848A | SPEAKER-FRONT LEFT SPK SYSTEM; PS-FZ410,FRONT LEFT SPK SYSTE,PART FOR PS-Z410,                                     | 1    | SA  |        |
| Center Speaker    | AH81-03848B | SPEAKER-CENTER;PS-CZ410,CENTER SPK SYSTEM,PART FOR PS-Z410,-,-,-,-                                                 | 1    | SA  |        |
| Rear Speaker (R)  | AH81-03848L | SPEAKER-REAR RIGHT SPK SYSTEM; REAR RIGHT SPK SYSTE,PART FOR PS-Z410,-,-,-,-                                       | 1    | SA  |        |
| Rear Speaker (L)  | AH81-03848C | SPEAKER-REAR LEFT SPK SYSTEM; PS-RZ410,REAR LEFT SPK SYSTEM,PART FOR PS-Z410                                       | 1    | SA  |        |
| Subwoofer         | AH81-03848D | SPEAKER-SUBWOOFER;PS-WZ410,SUBWOOFER SPK SYSTEM,PART FOR PS-Z410,-,-,-,-                                           | 1    | SA  |        |
| Speaker Wire      | AH81-02177A | SPEAKER;PS-Q40,SPK CORD WIRE,FRONT/SUB W/ F:4M,CENTER:3M,REAR:10M,TOTAL:35M(6 PCS),NO CONNECTER,11*0.16,OD:1.8*3.6 | 1    | SA  |        |



## 5-4 HT-Z510 Speaker System



### Part List

| Loc. No.          | Code No.    | Description;Specification                                                                                     | Q'ty | SNA | Remark |
|-------------------|-------------|---------------------------------------------------------------------------------------------------------------|------|-----|--------|
| Front Speaker (R) | AH81-03845J | SPEAKER-FRONT RIGHT SPK SYSTEM; FRONT RIGHT SPK SYST,PART FOR PS-Z510,-,-,-,-                                 | 1    | SA  |        |
| Front Speaker (L) | AH81-03845A | SPEAKER-FRONT LEFT SYSTEM; PS-FZ510,FRONT LEFT SPK SYSTE,PART FOR PS-Z510,-,-,-,-                             | 1    | SA  |        |
| Center Speaker    | AH81-03845B | AUDIO-RECEIVER-CENTER SPK SYSTEM; PS-CZ510,Center spk system,part for PS-Z510,-,-,-,-                         | 1    | SA  |        |
| Rear Speaker (R)  | AH81-03845K | SPEAKER-REAR RIGHT SPK SYSTEM; REAR RIGHT SPK SYSTE,PART FOR PS-Z510,-,-,-,-                                  | 1    | SA  |        |
| Rear Speaker (L)  | AH81-03845C | AUDIO-RECEIVER-REAR LEFT SPK SYSTEM; PS-RZ510,Rear Left spk system,part for PS-Z510,-,-,-,-                   | 1    | SA  |        |
| Subwoofer         | AH81-03845D | AUDIO-RECEIVER-SUBWOOFER SPK SYSTEM; PS-WZ510,Subwoofer spk system,part for PS-Z510,-,-,-,-                   | 1    | SA  |        |
| Speaker Wire      | AH81-03845H | SPEAKER-SPK WIRE; SPK WIRE,FRONT 4M/2PCS,CENTER 3M/1PCS,SUBWOOFER 4M/2PCS,TOTAL 19M/5PCS,FOR PS-Z510_SERIAL,- | 1    | SA  |        |

5-8

| Loc. No. | Part No.    | Description;Specification             | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification             | Q'ty | SNA | Remark |
|----------|-------------|---------------------------------------|------|-----|--------|----------|-------------|---------------------------------------|------|-----|--------|
|          | 2001-000786 | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3   | 2    | SA  |        |          |             |                                       |      |     |        |
|          | 2001-000869 | R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.   | 1    | SA  |        |          | AH81-02766A | TRANSISTOR;KSP2222A,Vceo 40V,Pc 625   | 1    | SA  |        |
|          | 2001-001096 | R-CARBON(S);2.2OHM,5%,1/2W,AA,TP,2.   | 1    | SA  |        |          | AH81-02776A | INDUCTOR-RADIAL-LINE FILTER;KE-13M2   | 2    | SA  |        |
|          | 2003-000738 | R-METAL OXIDE(S);56Kohm,5%,2W,AA,TP   | 1    | SA  |        |          | AH81-02803A | IC-REGULATOR;KA278R33,3.3V,TO-220F-   | 1    | SA  |        |
|          | 2201-000020 | C-CERAMIC,DISC;10NF,10%,1KV,Y5P,BK,   | 2    | SA  |        |          | AH81-02815A | C-AL;100uF,25V,6.3*11mm,-40 to +85C   | 1    | SA  |        |
|          | 2201-000021 | C-CERAMIC,DISC;100NF,+80-20%,50V,Y5   | 2    | SA  |        |          | AH81-02816A | C-AL;1uF,50V,5.1*11mm,-40 to +85C,-,- | 1    | SA  |        |
|          | 2401-000649 | C-AL;2.2uF,20%,50V,BP,TP,5x11,5       | 1    | SA  |        |          | AH81-02838A | RESISTOR-CARBON FILM;1/8W,18Kohm,1%   | 1    | SA  |        |
|          | 2401-002300 | C-AL;47###F,20%,50V,GP,TP,6.3x11,5mm  | 5    | SA  |        |          | AH81-02866A | C-AL;22uF/50v,5*11mm,-40 to +85C,-,   | 1    | SA  |        |
|          | 2401-003036 | C-AL;100uF,20%,16V,GP,TP,5X11mm,5mm   | 1    | SA  |        |          | AH81-02867A | C-AL;2200uF/10V,10x20mm,-40 to +105   | 2    | SA  |        |
|          | 3809-001234 | CABLE-FLAT;30V,80C,150mm,13P,1.25mm   | 1    | SA  |        |          | AH81-02882A | CONNECTOR;20017WSR-15A00(2.0mm,-,-,   | 1    | SA  |        |
|          | 3809-001926 | CABLE-FLAT;30V,80C,60mm,28P,1.25mm,   | 1    | SA  |        |          | AH81-02917A | RESISTOR-METAL OXIDE FILM;2W 0.22 o   | 1    | SA  |        |
|          | AH40-00089A | TUNER-PACK;KST-ML001FA0-52S,FM,-,-,   | 1    | SA  |        |          | AH81-02931A | CAPACITOR-MYLAR;0.82nF/100V (2A821)   | 1    | SA  |        |
|          | AH65-30010A | CLAMP-WIRE;-,-,-,-,-,-,-,-            | 2    | SNA |        |          | AH81-02949A | CONNECTOR;YMW025-11R 2.5mm,-,-,-,-    | 1    | SA  |        |
|          | AH81-02494A | DIODE-SUPER FAST RECTIFIER;SF3006PT   | 1    | SA  |        |          | AH81-02965A | IC;KA78R05,-,-,-,-,-,-,-,-            | 1    | SA  |        |
|          | AH81-02505A | DIODE-ZENER;1N5239B,0.5W,9.1V,DO-35   | 1    | SA  |        |          | AH81-02969A | IC;STR-X6757,-,-,-,-,-,-,-,-          | 1    | SA  |        |
|          | AH81-02506A | DIODE-ZENER;1N5231B,0.5W,5.1V,DO-35   | 2    | SA  |        |          | AH81-02986A | RESISTOR-CARBON FILM;1/8W 47 ohm,1%   | 1    | SA  |        |
|          | AH81-02521A | DIODE-SWITCHING;1N4148,500mW,DO-35,   | 2    | SA  |        |          | AH81-02993A | RESISTOR-CARBON FILM;1/4W 100 ohm,5   | 1    | SA  |        |
|          | AH81-02522A | DIODE-ZENER;1N4758A,56V,4.5mA,DO-41   | 3    | SA  |        |          | AH81-02996A | RESISTOR-CARBON FILM;1/4W 1K ohm,5%   | 1    | SA  |        |
|          | AH81-02524A | C-FILM MPEF;0.1uF,100V,5%,TP,-,-,-    | 1    | SA  |        |          | AH81-03020A | RESISTOR-METAL OXIDE FILME;2W 0.15    | 1    | SA  |        |
|          | AH81-02525A | INDUCTOR-AXIAL-BEAD CORE;BFS3550AOL   | 3    | SA  |        |          | AH81-03024A | RESISTOR-METAL OXIDE FILME;2W 33K o   | 2    | SA  |        |
|          | AH81-02534A | C-AL-LARGE TYPES;470uF,250V,22*40mm   | 2    | SA  |        |          | AH81-03099A | HEAT SINK;-,-,-,15*11*22(HOLE)*25/S   | 1    | SA  |        |
|          | AH81-02536A | C-AL;1000uF,50V,13*25mm,-40 to +105   | 6    | SA  |        |          | AH81-03122A | DIODE;UF4004,-,-,-,-,-,-,-,-          | 3    | SA  |        |
|          | AH81-02540A | DIODE-FAST RECOVERY;FR304,3A,400V,R   | 1    | SA  |        |          | AH81-03128A | DIODE-ZENER;1N5235B/6.8V,-,-,-,-,-,   | 1    | SA  |        |
|          | AH81-02544A | PHOTO COUPLER;LTV817B,If 50mA,Vceo    | 4    | SA  |        |          | AH81-03158A | RESISTOR-CARBON FILM;1/8W 150 ohm,5   | 1    | SA  |        |
|          | AH81-02545A | INDUCTOR-RADIAL-CHOKE COIL;RADIAL,2   | 2    | SA  |        |          | AH81-03160A | RESISTOR-CARBON FILM;1/8W 5.6K ohm,   | 1    | SA  |        |
|          | AH81-02546A | IC-REGULATOR;KA7912,Vo = -12V,-,-,-   | 1    | SA  |        |          | AH81-03161A | RESISTOR-CARBON FILM;1/8W 470K ohm,   | 1    | SA  |        |
|          | AH81-02551A | IC-REGULATOR;KA78R12,TO-220F-4L,Vo    | 1    | SA  |        |          | AH81-03178A | RESISTOR-METAL OXIDE FILM;2W 200K o   | 1    | SA  |        |
|          | AH81-02553A | THERMISTOR;3D15,-,-,-,-,-,-,-,-       | 1    | SA  |        |          | AH81-03180A | RESISTOR-SURGE ARRESTER;Y08UZ-230B,   | 1    | SA  |        |
|          | AH81-02558A | CONNECTOR;5096-02C,7.92mm,-,-,-,-,-   | 1    | SA  |        |          | AH81-03195A | CAPACITOR-MYLAR;0.027uF/(100V),(2A2   | 1    | SNA |        |
|          | AH81-02565A | C-FILM MPEF-MPP FILM;0.1uF,275VAC-P   | 1    | SA  |        |          | AH81-03198A | CAPACITOR-METAL;ME630V/103(5mm),-,-   | 2    | SNA |        |
|          | AH81-02573A | INSULATOR-SHEET;20*30,-,-,-,-,-,-,-   | 1    | SA  |        |          | AH81-03199A | CAPACITOR-METAL;ME630V/222(5mm),-,-   | 1    | SA  |        |
|          | AH81-02575A | SCREW-PH;M3*8 ASSEMBLY,-,-,-,-,-,-,-  | 1    | SNA |        |          | AH81-03200A | C-CERAMIC DISK;330pF/1KV(331/1KV),-   | 1    | SA  |        |
|          | AH81-02576A | SCREW-PH;M3*10 ASSEMBLY,-,-,-,-,-,-,- | 2    | SA  |        |          | AH81-03201A | C-AL;2200uF/10V,10x20mm,-40 to +85C   | 1    | SA  |        |
|          | AH81-02596A | RESISTOR-CARBON FILM;1/8W,910 ohm,1   | 1    | SA  |        |          | AH81-03204A | C-AL;3300uF/6.3V,10*20mm,-40 to +10   | 1    | SA  |        |
|          | AH81-02608A | C-AL;470uF,16V,8*12mm,-40TO+85C,-,-   | 1    | SA  |        |          | AH81-03205A | C-AL;220uF/16V,6.3*11mm,-40 to +105   | 1    | SA  |        |
|          | AH81-02609A | C-AL;470uF,25V,10*12.5mm,-40 to +85   | 2    | SA  |        |          | AH81-03207A | C-AL;100uF/25V,5x11mm,-40 to +105C,   | 1    | SA  |        |
|          | AH81-02612A | RESISTOR-CARBON FILM;1/8W,150 ohm,1   | 1    | SA  |        |          | AH81-03212A | DIODE;SR306 (M-FORMING),-,-,-,-,-,-   | 1    | SA  |        |
|          | AH81-02614A | RESISTOR-CARBON FILM;1/8W,1.2K ohm,   | 2    | SA  |        |          | AH81-03213A | DIODE;SR504 M-FORMING,-,-,-,-,-,-,-   | 1    | SA  |        |
|          | AH81-02617A | RESISTOR-SURGE;1/2W,1.5M ohm,5%,SUR   | 1    | SA  |        |          | AH81-03215A | DIODE-BRIGE;TS10B05G,-,-,-,-,-,-,-    | 1    | SA  |        |
|          | AH81-02628A | DIODE-FAST RECOVERY RECTIFIERS;FR10   | 9    | SA  |        |          | AH81-03227A | TRANS;ORTP-617(T1),EER4242(V),-,-,-   | 1    | SA  |        |
|          | AH81-02641A | C-FILM MPEF-MYLAR;0.002uF,100V,5%,    | 1    | SA  |        |          | AH81-03228A | TRANS;ORTP-617(T2),EER2828(V),-,-,-   | 1    | SA  |        |
|          | AH81-02642A | C-FILM MPEF-MYLAR;0.0047uF,100V,5%,   | 1    | SA  |        |          | AH81-03229A | FUSE-CLIP;FC51F,-,-,-,-,-,-,-,-       | 2    | SA  |        |
|          | AH81-02645A | C-FILM MPEF-MPP FILM;0.47uF,275VAC-   | 1    | SA  |        |          | AH81-03230A | FUSE;10A/AC250V 215xxx,(ceramic),-,-  | 1    | SA  |        |
|          | AH81-02648A | C-CERAMIC DISK;1000pF,400VAC-Y1,20%   | 2    | SA  |        |          | AH81-03231A | VARISTOR;14D471,-,-,-,-,-,-,-,-       | 1    | SA  |        |
|          | AH81-02649A | C-CERAMIC DISK;1500pF,400VAC-Y1,20%   | 1    | SA  |        |          | AH81-03233A | PCB;197*176*1.6(FR-1),-,-,-,-,-,-,-   | 1    | SNA |        |
|          | AH81-02651A | C-AL;6800uF,6.3V,12.5*25mm,-40 to +   | 1    | SA  |        |          | AH81-03240A | HEAT SINK;-,-,-,52.3*16.8*26(HOLE)*   | 1    | SA  |        |
|          | AH81-02657A | C-AL;220uF,25V,8*12mm,-40 to +85C,-   | 1    | SA  |        |          | AH81-03244A | HEAT SINK;-,-,-,45*18*28(Hole)*45/S   | 1    | SA  |        |
|          | AH81-02666A | C-AL;47uF,50V,6.3*11mm,-40 to +105C   | 2    | SA  |        |          | AH81-03285A | CAPACITOR-METAL CAP;ME1000V/152(17.   | 1    | SA  |        |
|          | AH81-02698A | WIRE-JUMPER;TIN 0.6t(7.5mm),-,-,-,-   | 5    | SNA |        |          | AH97-02595A | ASSY-KITTING PCB;HT-Z410/XAA,-        | 1    | SNA |        |
|          | AH81-02703A | WIRE-JUMPER;TIN 0.6t(10.0mm),-,-,-,-  | 14   | SNA |        |          |             |                                       |      |     |        |
|          | AH81-02710A | WIRE-JUMPER;TIN 0.6t(15.0mm),-,-,-,-  | 4    | SNA |        |          |             |                                       |      |     |        |
|          | AH81-02712A | WIRE-JUMPER;TIN 0.6t(17.5mm),-,-,-,-  | 7    | SNA |        |          |             |                                       |      |     |        |
|          | AH81-02716A | WIRE-JUMPER;TIN 0.6t(20mm),-,-,-,-,-  | 3    | SNA |        |          |             |                                       |      |     |        |
|          | AH81-02717A | WIRE-JUMPER;TIN 0.6t(12.5mm),-,-,-,-  | 9    | SNA |        |          |             |                                       |      |     |        |
|          | AH81-02763A | C-AL;33uF,50V,6.3*11mm,-40 to +85C,   | 1    | SA  |        |          |             |                                       |      |     |        |
|          | AH81-02765A | IC-REGULATOR;KA78R08,1A,8V,TO-220F-   | 1    | SA  |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
|          |             |                                       |      |     |        |          |             |                                       |      |     |        |
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## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| AC14     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | C76      | 2401-000240 | C-AL;100uF,20%,10V,GP,TP,5x11,5     | 1    | SA  |        |
| AC15     | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | C77      | 2401-002042 | C-AL;220uF,20%,10V,GP,TP,6.3x11,5   | 1    | SA  |        |
| AC16     | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C78      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC18     | 2401-001508 | C-AL;47uF,20%,16V,GP,TP,6.3x5,5     | 1    | SA  |        | C79      | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |
| AC19     | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | C80      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC2      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | C81      | 2401-000240 | C-AL;100uF,20%,10V,GP,TP,5x11,5     | 1    | SA  |        |
| AC21     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | C82      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| AC22     | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C83      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| AC23     | 2203-002398 | C-CER,CHIP;22nF,10%,50V,X7R,1608    | 1    | SA  |        | C84      | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| AC24     | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | C85      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| AC25     | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | C86      | 2203-000697 | C-CER,CHIP;0.002NF,0.25PF,50V,C0G,T | 1    | SA  |        |
| AC26     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | CEC1     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC27     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | CEC2     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC28     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | CEC42    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC3      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | CEC43    | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| AC4      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | CEC44    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC5      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | CEC45    | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| AC6      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | CEC46    | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| AC7      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | CEC47    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC8      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | CEIC1    | AK09-00159A | IC MICOM;-MC80C0316-MC015 D32,44,2  | 1    | SA  |        |
| AC9      | 2203-000491 | C-CER,CHIP;2.2nF,10%,50V,X7R,1608   | 1    | SA  |        | CEIC2    | 1103-001333 | IC-EEPROM;24C08A,1Kx8Bit,SOP,8P,5x4 | 1    | SA  |        |
| AI01     | 1002-001548 | IC-A/D CONVERTER;CS5345,24,LQFP,48P | 1    | SA  |        | CEIC3    | 1203-002425 | IC-POSIFIXED REG.;1117,SOT-223,3P,  | 1    | SA  |        |
| AJ1      | 3711-000452 | CONNECTOR-HEADER;BOX,3P,1R,2mm,STRA | 1    | SA  |        | CEIC4    | 0505-001679 | FET-SILICON;FDC6301N,N,25V,0.22A,50 | 1    | SA  |        |
| AL1      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CEQ1     | 0501-000341 | TR-SMALL SIGNAL;KSC1623-L,NPN,200mW | 1    | SA  |        |
| AL2      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CER1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| AL3      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CER10    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| AL4      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CER12    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| AL5      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CER13    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AL6      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CER14    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AL7      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CER15    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AL8      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | CER16    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AQ1      | 0504-000156 | TR-DIGITAL;KSR2103,PNP,200MW,22K/22 | 1    | SA  |        | CER17    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AQ2      | 0504-000128 | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-  | 1    | SA  |        | CER18    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR1      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER19    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR10     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | CER2     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| AR11     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER20    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| AR19     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER21    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR2      | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | CER22    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR24     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER27    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR25     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER28    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR28     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER3     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| AR3      | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | CER30    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR30     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER33    | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| AR31     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER34    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR32     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER35    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR37     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER36    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR38     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER37    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR39     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER4     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR4      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER45    | 2802-001179 | RESONATOR-CERAMIC;4MHZ,0.5%,BK,8X3X | 1    | SA  |        |
| AR40     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER47    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| AR41     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER5     | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR5      | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER6     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| AR6      | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | CER7     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| AR7      | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | CER8     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| C5       | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | CER9     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| C70      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | CN5      | 3711-000471 | HEADER-BOARD TO CABLE;3WALL,4P,1R,2 | 1    | SA  |        |
| C72      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | CON1     | 3708-001086 | CONNECTOR-FPC/FFC/PIC;28P,1.25MM,ST | 1    | SA  |        |
| C73      | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        | CON3     | AH39-00824A | WIRE HARNESS;HT-Q40,-,-,15,150mm,BL | 1    | SA  |        |
| C74      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |          |             |                                     |      |     |        |

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| CON6     | 3708-000237 | CONNECTOR-FPC/FFC/PIC;24P,1.25mm,ST | 1    | SA  |        | HL10     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CON7     | 3711-000682 | HEADER-BOARD TO CABLE;BOX,13P,1R,2M | 1    | SA  |        | HL100    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| CON8     | 3708-000448 | CONNECTOR-FPC/FFC/PIC;6P,1.25MM,STR | 1    | SA  |        | HL101    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| CON9     | 3709-001287 | CONNECTOR-CARD SLOT;10P,1.5mm,SMD-A | 1    | SA  |        | HL103    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| CSC1     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | HL11     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CSC2     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | HL12     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CSR1     | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | HL13     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CSR2     | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | HL16     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| CV1      | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | HL17     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| CV2      | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | HL18     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| DHD4     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | HL19     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| DHD5     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | HL2      | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        |
| DL81     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | HL20     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| DR1      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | HL21     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| EC3      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | HL22     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| EC4      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | HL23     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| EMCB1    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | HL3      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| EMCB2    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | HL52     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| ESD15    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HL53     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| ESD31    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HL7      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| ESD4     | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HPD1     | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA, | 1    | SA  |        |
| ESD5     | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HPD2     | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA, | 1    | SA  |        |
| HC26     | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        | HPQ1     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        |
| HC50     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HPQ2     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        |
| HC51     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HPQ3     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        |
| HC53     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HPQ4     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        |
| HC54     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        | HPQ5     | 0504-000156 | TR-DIGITAL;KSR2103,PNP,200MW,22K/22 | 1    | SA  |        |
| HC55     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        | HPUR1    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC60     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HPUR2    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC61     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HPUR3    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HC62     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HPUR4    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HC64     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | HPUR5    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HC66     | 2401-001508 | C-AL;47uF,20%,16V,GP,TP,6.3x5.5     | 1    | SA  |        | HPUR6    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HC68     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HQ1      | 0504-000128 | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-  | 1    | SA  |        |
| HC69     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HQ4      | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5o | 1    | SA  |        |
| HC70     | 2401-001508 | C-AL;47uF,20%,16V,GP,TP,6.3x5.5     | 1    | SA  |        | HQ5      | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5o | 1    | SA  |        |
| HC71     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR1      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC72     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR2      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HC73     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        | HR26     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HC74     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR27     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HC75     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | HR53     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HC76     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR54     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC85     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | HR55     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC86     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR56     | 2007-000729 | R-CHIP;300ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC87     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        | HR57     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC88     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        | HR58     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC89     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR59     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC90     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR60     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC91     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR61     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC92     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR62     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC93     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR63     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HC94     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HR64     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HD1      | 0402-000309 | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1    | SA  |        | HR65     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HD11     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | HR66     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HD15     | 0402-000309 | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1    | SA  |        | HR67     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HDCN2    | 3701-001313 | CONNECTOR-HDMI;19P,2R,PLUG,ANGLE,AU | 1    | SA  |        | HR68     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HIC20    | 1205-003381 | IC-TRANSMITTER;ES7108S,LQFP,80P,12x | 1    | SA  |        | HR69     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HL1      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | HR70     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
|          |             |                                     |      |     |        | HR71     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |



## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| HR72     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC15     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR73     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC16     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR76     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | MC17     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR78     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MC18     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| HR79     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | MC185    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | MC19     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HTK      | AH62-00062G | HEAT SINK-TR;HT-DS400,AL EXTR,-,-,- | 1    | SA  |        | MC20     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IC10     | 0801-002683 | IC-CMOS LOGIC;74HCT245,TRANSCEIVER, | 1    | SA  |        | MC23     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IC14     | 0801-002518 | IC-CMOS LOGIC;74LCX157,2-INPUT MULT | 1    | SA  |        | MC24     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IC2      | 1103-001333 | IC-EEPROM;24C08A,1Kx8Bit,SOP,8P,5x4 | 1    | SA  |        | MC25     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IC4      | 1105-001573 | IC-DRAM;K4S281632,-,128Mbit,8Mx16Bi | 1    | SA  |        | MC26     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | MC27     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IJACK    | 3710-002628 | SOCKET-INTERFACE;18P,1R,0.5mm,SMD-A | 1    | SA  |        | MC28     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC29     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB2     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC300    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| IPB3     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC302    | 2007-000092 | R-CHIP;15Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| IPB4     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC308    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB5     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |          |             |                                     |      |     |        |
| IPB6     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC309    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB8     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC31     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| IPC1     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MC310    | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        |
| IPC2     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MC312    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | MC313    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPC3     | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | MC314    | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        |
| IPC4     | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | MC315    | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        |
| IPC5     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MC316    | 2007-000092 | R-CHIP;15Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| IPL1     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        | MC32     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPR2     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MC33     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
|          |             |                                     |      |     |        |          |             |                                     |      |     |        |
| IPR25    | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        | MC34     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPR3     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC35     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| IPR4     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MC36     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPR5     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC37     | 2203-000062 | C-CER,CHIP;47nF,+80-20%,50V,Y5V,160 | 1    | SA  |        |
| IPR6     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC38     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        |          |             |                                     |      |     |        |
| J0       | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | MC39     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| J1       | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | MC40     | 2203-000646 | C-CER,CHIP;0.024nF,5%,50V,C0G,TP,16 | 1    | SA  |        |
| J2       | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | MC41     | 2203-000681 | C-CER,CHIP;0.027nF,5%,50V,C0G,1608  | 1    | SA  |        |
| KBD10    | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC42     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| KBD12    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | MC43     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        |          |             |                                     |      |     |        |
| KBD6     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC44     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| KBD7     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC51     | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608    | 1    | SA  |        |
| KBD8     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC53     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| KBD9     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC54     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| LBA5     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC56     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
|          |             |                                     |      |     |        |          |             |                                     |      |     |        |
| LGND1    | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC58     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| MB04     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | MC59     | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |
| MB05     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | MC6      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| MB07     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC62     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| MB08     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC63     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        |          |             |                                     |      |     |        |
| MB09     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | MC64     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| MC10     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MC65     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| MC100    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MC66     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| MC11     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MC67     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| MC12     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MC68     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        |          |             |                                     |      |     |        |
| MC121    | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        | MC7      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MC122    | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | MC73     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| MC123    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | MC74     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| MC124    | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | MC75     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| MC125    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | MC76     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
|          |             |                                     |      |     |        |          |             |                                     |      |     |        |
| MC13     | 2203-001086 | C-CER,CHIP;0.0050nF,0.25pF,50V,NP0, | 1    | SA  |        | MC77     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| MC14     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |          |             |                                     |      |     |        |
| MC143    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |          |             |                                     |      |     |        |

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| MC78     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR116    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC79     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR117    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC8      | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | MR12     | 2011-001261 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P, | 1    | SA  |        |
| MC80     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR120    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |             |                                     |      |     |        | MR13     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MC81     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |          |             |                                     |      |     |        |
| MC82     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | MR132    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC84     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR14     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC85     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR15     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MC91     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR16     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |             |                                     |      |     |        | MR166    | 2007-000119 | R-CHIP;560ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC92     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |          |             |                                     |      |     |        |
| MD3A     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | MR168    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MIC1     | 1204-002847 | IC-PAL/NTSC DECODER;ES8391SCC,LQFP, | 1    | SA  |        | MR17     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MIC10    | 0801-002391 | IC-CMOS LOGIC;74LCX00,NAND GATE,TSS | 1    | SA  |        | MR193    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MIC11    | 1003-001508 | IC-MOTOR DRIVER;FAN8082DTF,SOP,8P,2 | 1    | SA  |        | MR195    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          |             |                                     |      |     |        | MR199    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MIC12    | 1003-001508 | IC-MOTOR DRIVER;FAN8082DTF,SOP,8P,2 | 1    | SA  |        |          |             |                                     |      |     |        |
| MIC3     | 1107-001600 | IC-NOR FLASH;MX25L1605A,16Mbit,2Mx8 | 1    | SA  |        | MR2      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MJ1      | 3711-005971 | HEADER-BOARD TO BOARD;NOWALL,30P,2R | 1    | SA  |        | MR200    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ML10     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR201    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML11     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR203    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          |             |                                     |      |     |        | MR204    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML14     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |          |             |                                     |      |     |        |
| ML18     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR205    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML19     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR206    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML20     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR208    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML20A    | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR210    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | MR22     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| ML21     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| ML22     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR23     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ML23     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR24     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| ML24     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR246    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ML35     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR247    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | MR26     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML37     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |          |             |                                     |      |     |        |
| ML38     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR28     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML39     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | MR29     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML5      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR30     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML6      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR300    | 2007-000552 | R-CHIP;20ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          |             |                                     |      |     |        | MR301    | 2007-000552 | R-CHIP;20ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ML9      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |          |             |                                     |      |     |        |
| MR01     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR302    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR02     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR303    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR03     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        | MR304    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR04     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        | MR31     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | MR313    | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        |
| MR05     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |          |             |                                     |      |     |        |
| MR06     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        | MR315    | 2007-000133 | R-CHIP;330Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MR07     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        | MR32     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR08     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        | MR321    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR09     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        | MR322    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | MR325    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR1      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| MR10     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        | MR326    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MR100    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR327    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR101    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR328    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MR102    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR33     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | MR330    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MR103    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| MR104    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR34     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MR108    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MR35     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR109    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MR36     | 2011-001261 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P, | 1    | SA  |        |
| MR11     | 2011-001261 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P, | 1    | SA  |        | MR37     | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | MR38     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MR111    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| MR112    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR39     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR113    | 2007-000119 | R-CHIP;560ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR4      | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR114    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR43     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MR115    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| MR45     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | PB3      | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        |
| MR46     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PB4      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MR47     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | PB5      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MR48     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | PC1      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR5      | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC10     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| MR501    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC3      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR502    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC31     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR503    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC32     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR504    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC33     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| MR505    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC34     | 2401-001238 | C-AL;4.7uF,20%,25V,GP,BK,3x5,1mm    | 1    | SA  |        |
| MR508    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PC4      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR509    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PC5      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| MR51     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | PC6      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR52     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC7      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR520    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PC8      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR530    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | PC9      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR540    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PCBMAIN  | AH41-01095A | PCB-MAIN;HT-Z410,PENNL0,2,0,1,6T,24 | 1    | SNA |        |
| MR55     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PIC2     | 1203-002935 | IC-POS;ADJUST REG.;A1C117ACE,TO-2   | 1    | SA  |        |
| MR58     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | PR10     | 2007-000293 | R-CHIP;100ohm,5%,1/4W,TP,3216       | 1    | SA  |        |
| MR59     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R1       | 2007-000643 | R-CHIP;270ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR6      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | R10      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR621    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | R11      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR64     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | R12      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR65     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | R13      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR7      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | R14      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR70     | 2007-000106 | R-CHIP;220Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | R18      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MR8      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | R19      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MRW3     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | R2       | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MRW4     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | R20      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MX01     | 2801-004284 | CRYSTAL-SMD;27MHZ,10PPM,28-AAN,20PF | 1    | SA  |        | R21      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| OPIC1    | 0603-001205 | OPTIC TRANSMITTER;5V,13.2Mb/s,-,-,- | 1    | SA  |        | R3       | 2007-000608 | R-CHIP;240ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| OPR10    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R4       | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| OPR11    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R8       | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| OPR12    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R9       | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| OPR13    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RB09     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| OPR14    | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RB1A     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| OPR15    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RC189    | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        |
| OPR16    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RC20     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| OPR17    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RC22     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| OPR18    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | RC27     | 2203-001126 | C-CER,CHIP;0.68nF,10%,50V,X7R,1608  | 1    | SA  |        |
| OPR19    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | RC28     | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,16 | 1    | SA  |        |
| OPR20    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | RC29     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| OPR21    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RC31     | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,16 | 1    | SA  |        |
| OPR22    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RC36     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| OPR23    | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RC38     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| OPR24    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RC39     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| OPR3     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RC40     | 2203-001126 | C-CER,CHIP;0.68nF,10%,50V,X7R,1608  | 1    | SA  |        |
| OPR31    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | RC41     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| OPR32    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | RC42     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |
| OPR33    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | RC43     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| OPR36    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RC44     | 2203-002398 | C-CER,CHIP;22nF,10%,50V,X7R,1608    | 1    | SA  |        |
| OPR6     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RC47     | 2203-000888 | C-CER,CHIP;4.7nF,10%,50V,X7R,1608   | 1    | SA  |        |
| OPR7     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RC48     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |
| OPR8     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RC49     | 2203-005015 | C-CER,CHIP;150nF,+80-20%,16V,Y5V,16 | 1    | SA  |        |
| OPR9     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        | RC51     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| OPTR1    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | RC52     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| OPTR2    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | RC53     | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |
| PB1      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | RC55     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | RC56     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |



| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification       | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|---------------------------------|------|-----|--------|
| RC57     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | UR17A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RC58     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | UR18     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| REG1     | 1203-002935 | IC-POS,ADJUST REG.;AIC1117ACE,TO-2  | 1    | SA  |        | UR18A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| REG2     | 1203-002935 | IC-POS,ADJUST REG.;AIC1117ACE,TO-2  | 1    | SA  |        | UR19     | 2007-000106 | R-CHIP;220Kohm,5%,1/10W,TP,1608 | 1    | SA  |        |
| RFR1     | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        | UR19A    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR2      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RFR2     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UR20     | 2007-000075 | R-CHIP;220ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RFR3     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                 |      |     |        |
| RL3      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | UR21     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RL4      | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        | UR21A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RL5      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | UR22     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR22A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RL6      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | UR23     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RR31     | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                 |      |     |        |
| RR57     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR24     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        |
| RR77     | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR26     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RR78     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | UR28     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        |
|          |             |                                     |      |     |        | UR29     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        |
| RR79     | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR3      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RR80     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                 |      |     |        |
| RR84A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR30     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        |
| RR85     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR31     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RR91     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR32     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR34     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RR92     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR35     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| RR93     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                 |      |     |        |
| RR94     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UR35A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| TJ1      | 3708-001094 | CONNECTOR-FPC/FFC/PIC;13P,1.25MM,ST | 1    | SA  |        | UR37     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| TZX      | AH65-30013A | CLAMP-CORD;-,-,-,-,-,-              | 1    | SA  |        | UR38     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR4      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC1      | 2401-000759 | C-AL;220nF,20%,50V,GP,TP,5x11mm,5mm | 1    | SA  |        | UR42     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC167    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |          |             |                                 |      |     |        |
| UC2      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        | UR42A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC3      | 2409-000123 | C-EDL;47000uF,4uA,5.5V,-,BK,-,5mm   | 1    | SA  |        | UR43     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC4      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | UR44     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR45     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC48     | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608    | 1    | SA  |        | UR46     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC5      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |          |             |                                 |      |     |        |
| UC6      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | UR47A    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC7      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | UR49     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC8      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | UR5      | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        |
|          |             |                                     |      |     |        | UR50     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UC9      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | UR52     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UD1      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |          |             |                                 |      |     |        |
| UD3      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | UR54     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UD4      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | UR57     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        |
| UD5      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | UR58     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        |
|          |             |                                     |      |     |        | UR59     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        |
| UD6      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | UR6      | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        |
| UIC1     | 0903-001405 | IC-MICROCONTROLLER;LC87F5CC8A,8Bit  | 1    | SA  |        |          |             |                                 |      |     |        |
| UQ1      | 0501-000341 | TR-SMALL SIGNAL;KSC1623-L,NPN,200mW | 1    | SA  |        | UR60     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        |
| UR1      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR61     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        |
| UR104    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR65     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR66     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR105    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR67     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR11     | 2007-000107 | R-CHIP;470Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |          |             |                                 |      |     |        |
| UR115    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR68     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR115A   | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR69     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR12     | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608       | 1    | SA  |        | UR7      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR70     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR13     | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR71     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR146    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                 |      |     |        |
| UR15     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UR72     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR15A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR73     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR16     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UR74     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        | UR75     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR161    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR76     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |
| UR16A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                 |      |     |        |
| UR17     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR77     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No.    | Part No.                                         | Description;Specification           | Q'ty      | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|-------------|--------------------------------------------------|-------------------------------------|-----------|-----|--------|
| UR78     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | VR8         | 2007-001167                                      | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1         | SA  |        |
| UR79     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | VR9         | 2007-000125                                      | R-CHIP;3.9Kohm,5%,1/10W,TP,1608     | 1         | SA  |        |
| UR79A    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | WD1         | 0402-000309                                      | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1         | SA  |        |
| UR80     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | WD2         | 0402-000309                                      | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1         | SA  |        |
| UR81     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | XD3         | 0401-001090                                      | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1         | SA  |        |
| UR82     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | XD8         | 0401-001090                                      | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1         | SA  |        |
| UR83     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | X-TAL1      | 2802-001174                                      | RESONATOR-CERAMIC;10MHZ,0.5%,BK,8X3 | 1         | SA  |        |
| UR84     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | ZD11        | 0403-001008                                      | DIODE-ZENER;RLZ5.6A,5.6V,5.28-5.55V | 1         | SA  |        |
| UR85     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | ZD12        | 0403-000746                                      | DIODE-ZENER;RLZ3.9B,3.89-4.16V,500m | 1         | SA  |        |
| UR86     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | AH99-10011H | ASSY PCB-MAIN,m;HT-Z410,MAIN ASSY                | 1                                   | SNA       |     |        |
| UR87     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |             | <b>AH92-02784A ASSY PCB-AMP;HT-Z410,AMP ASSY</b> | <b>1</b>                            | <b>SA</b> |     |        |
| UR90     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | C1          | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| UR91     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | C10CC       | 2203-001634                                      | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1         | SA  |        |
| UR92     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | C10FL       | 2305-000407                                      | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1         | SA  |        |
| UR93     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | C10RL       | 2305-000407                                      | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1         | SA  |        |
| UR94     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | C10YL       | 2305-000407                                      | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1         | SA  |        |
| VC1      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | C10YR       | 2305-000407                                      | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1         | SA  |        |
| VC10     | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C11RL       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VC11     | 2401-000487 | C-AL;10uF,20%,50V,GP,TP,6.3x5mm,5   | 1    | SA  |        | C11RR       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VC12     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | C11SW       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VC13     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | C11YL       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VC16     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | C11YR       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VC18     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | C12CC       | 2203-001634                                      | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1         | SA  |        |
| VC2      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | C12RL       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VC22     | 2402-001042 | C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6. | 1    | SA  |        | C12RR       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VC32     | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        | C12SW       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VC33     | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        | C12YL       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VC34     | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        | C12YR       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VC7      | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C13FL       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VC71     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | C13RL       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VC8      | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C13YL       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VC9      | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C13YR       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VIC1     | 1204-001978 | IC-VIDEO PROCESS;LA73054,-,36P,-,SS | 1    | SA  |        | C14FL       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VJ1      | 3722-002027 | JACK-PIN;6P/6C,SN,YEL/GN/WH/BL/RD,A | 1    | SA  |        | C14RL       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VL1      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | C14YL       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VL13     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        | C14YR       | 2203-000783                                      | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1         | SA  |        |
| VL14     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        | C15RL       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VL15     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        | C15RR       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VL2      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | C15SW       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VL20     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        | C15YL       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR1      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C15YR       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR11     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | C16RL       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VR12     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C16RR       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VR13     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C16SW       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VR14     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C16YL       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VR15     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C16YR       | 2203-000257                                      | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1         | SA  |        |
| VR16     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C17FL       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR17     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C17RL       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR18     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C17SW       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR2      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C17YL       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR20     | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C17YR       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR21     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | C18FL       | 2203-001634                                      | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1         | SA  |        |
| VR22     | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C18RL       | 2203-001634                                      | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1         | SA  |        |
| VR3      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C18SW       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR37     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C18YL       | 2203-001634                                      | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1         | SA  |        |
| VR4      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C18YR       | 2203-001634                                      | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1         | SA  |        |
| VR5      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C19CC       | 2203-005249                                      | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1         | SA  |        |
| VR6      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |             |                                                  |                                     |           |     |        |
| VR7      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |             |                                                  |                                     |           |     |        |

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| C19FL    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | C7RL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C19RL    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | C7YL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C19YL    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | C7YR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C19YR    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | C8CC     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| C1RL     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | C8FL     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        |
| C1SW     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | C8RL     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        |
| C1YR     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | C8YL     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        |
| C20CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C8YR     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        |
| C20FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C9SW     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        |
| C20YL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EL1      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| C21FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EL2      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| C21SW    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | EL4      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| C22FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMC10    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C22SW    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | EMC11    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C23      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMC12    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C23CC    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | EMC13    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C23FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMC14    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C23SW    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | EMC17    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C24      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMC19    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C24CC    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | EMC20    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C24FL    | 2401-002300 | C-AL;47##F,20%,50V,GP,TP,6.3x11,5mm | 1    | SA  |        | EMC21    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C24YL    | 2401-002300 | C-AL;47##F,20%,50V,GP,TP,6.3x11,5mm | 1    | SA  |        | EMC22    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C25      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMC5     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C25SW    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | EMC6     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C26      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMC7     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C26SW    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMC8     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C27CC    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | EMC9     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C28CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | EMCFL    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C29SW    | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        | EMR3     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C2FL     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        | EMR4     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C2RL     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        | EMR5     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C2SW     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        | EMR6     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C2YL     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        | FC2      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| C2YR     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        | FC3      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| C3       | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FC4      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| C30CC    | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        | FC5      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| C31CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FC6      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| C31SW    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FD1      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| C32CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FD2      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| C33SW    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | FJ1      | 3711-000820 | HEADER-BOARD TO CABLE;BOX,2P,1R,2,5 | 1    | SA  |        |
| C34CC    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | FL1      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| C35SW    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        | FL2      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| C37CC    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        | FL3      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| C3FL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FQ1      | 0501-000422 | TR-SMALL SIGNAL;KTA1273,PNP,-30V,-3 | 1    | SA  |        |
| C3YL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FQ2      | 0501-000341 | TR-SMALL SIGNAL;KSC1623-L,NPN,200mW | 1    | SA  |        |
| C4RL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FQ3      | 0501-000422 | TR-SMALL SIGNAL;KTA1273,PNP,-30V,-3 | 1    | SA  |        |
| C4SW     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FQ4      | 0504-000128 | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-  | 1    | SA  |        |
| C4YR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR1      | 2001-000022 | R-CARBON(S);330HM,5%,1/2W,AA,TP,2,4 | 1    | SA  |        |
| C5CC     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR10     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C5FL     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR11     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C5RL     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR12     | 2003-000587 | R-METAL OXIDE(S);22ohm,5%,1W,AA,TP, | 1    | SA  |        |
| C5YL     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR13     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C5YR     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR14     | 2007-000082 | R-CHIP;3.3Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| C6CC     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        | FR2      | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C6RR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR3      | 2001-001165 | R-CARBON(S);56OHM,5%,1/2W,AA,TP,2,4 | 1    | SA  |        |
| C6YR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR4      | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C7CC     | 2401-002300 | C-AL;47##F,20%,50V,GP,TP,6.3x11,5mm | 1    | SA  |        | FR5      | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| C7FL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR6      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | FR7      | 2007-000134 | R-CHIP;33Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |

## Exploded View &amp; Part List

| Loc. No.        | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|-----------------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| FR8             | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR28     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| FR9             | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR29     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC1             | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR30     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC1L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | MR31     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC1R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | MR32     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC2             | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR33     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC2L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | MR34     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC2R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | MR35     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC3L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | MR36     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC3R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | MR37     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC6L            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        | MR38     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC6R            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        | MR39     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HC7L            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        | NC6      | 2401-001020 | C-AL;3.3UF,20%,50V,GP,TP,4X7,5      | 1    | SA  |        |
| HC7R            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        | NC7      | 2401-000048 | C-AL;47uF,20%,25V,GP,TP,5x11,5      | 1    | SA  |        |
| HC8L            | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | NC8      | 2401-001164 | C-AL;33uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| HC8R            | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | ND3      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| HC9L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | ND4      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| HC9R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | ND5      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| HEATSINK        | AH62-00180A | HEAT SINK;HT-Z410/510,AL,T3,W122,L3 | 1    | SA  |        | NIC1     | 1201-000163 | IC-OP AMP;4560,SOP,8P,173MIL,DUAL,1 | 1    | SA  |        |
| HIC             | 1201-000163 | IC-OP AMP;4560,SOP,8P,173MIL,DUAL,1 | 1    | SA  |        | NPD3     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| HL1L            | 2703-000404 | INDUCTOR-SMD;220uH,10%,3225         | 1    | SA  |        | NQ3      | 0501-000010 | TR-SMALL SIGNAL;KSC1008,NPN,800mW,T | 1    | SA  |        |
| HL1R            | 2703-000404 | INDUCTOR-SMD;220uH,10%,3225         | 1    | SA  |        | NR1      | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HOLDER,HEATSINK | AH61-02526A | HOLDER-IC;HT-Z210,ABS,T0.9,W150,-,- | 1    | SA  |        | NR11     | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608      | 1    | SA  |        |
| HR1             | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | NR12     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HR10L           | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | NR13     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HR10R           | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | NR14     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HR2             | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | NR15     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HR2L            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | NR16     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HR2R            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | NR17     | 2007-000125 | R-CHIP;3.9Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HR4L            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | NR18     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HR4R            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | NR19     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HR5L            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | NR2      | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| HR5R            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | OR410C   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HR6L            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | OR410D   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HR6R            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PCBAMP   | AH41-01098A | PCB;HT-Z410,EPOXY,2.0,1.6T,330*197  | 0.5  | SNA |        |
| HR7L            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R11CC    | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| HR7R            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R11RL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HR8L            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R11RR    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HR8R            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R11SW    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HR9L            | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R11YL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| HR9R            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R11YR    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| IC1CW           | 1201-002673 | IC-AUDIO AMP;TAS5352DDV,HTSSOP,44P, | 1    | SA  |        | R13RL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| IC1L            | 1201-002673 | IC-AUDIO AMP;TAS5352DDV,HTSSOP,44P, | 1    | SA  |        | R13RR    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| IC1Y            | 1201-002673 | IC-AUDIO AMP;TAS5352DDV,HTSSOP,44P, | 1    | SA  |        | R13SW    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| J3              | AH39-00940A | WIRE HARNESS;HT-X50,-,-,11,50mm,BLA | 1    | SA  |        | R13YL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| J7              | 3708-001086 | CONNECTOR-FPC/FFC/PIC;28P,1.25MM,ST | 1    | SA  |        | R13YR    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L1FL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R14SW    | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| L1RL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R150     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| L1SW            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R15SW    | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| L1YL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R16CC    | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| L1YR            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R17CC    | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| L2FL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R1RL     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2RL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R1SW     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2SW            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R1YR     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2YL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R20CC    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2YR            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R21CC    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L3CC            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R22CC    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L4CC            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R22SW    | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |



| Loc. No.      | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|---------------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| R2FL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAC23    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R2RL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAC24    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R2SW          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAC25    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R2YL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAC26    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R2YR          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAC27    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
|               |             |                                     |      |     |        | UAC28    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R32SW         | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| R33SW         | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC29    | 2401-001355 | C-AL;470uF,20%,10V,GP,TP,8x11.5mm,5 | 1    | SA  |        |
| R3FL          | 2007-000034 | R-CHIP;10OHM,5%,1/4W,TP,3216        | 1    | SA  |        | UAC3     | 2401-002042 | C-AL;220uF,20%,10V,GP,TP,6.3x11.5   | 1    | SA  |        |
| R3RL          | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC30    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R3SW          | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC31    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
|               |             |                                     |      |     |        | UAC32    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R3YL          | 2007-000034 | R-CHIP;10OHM,5%,1/4W,TP,3216        | 1    | SA  |        |          |             |                                     |      |     |        |
| R3YR          | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC33    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R46           | 2007-000253 | R-CHIP;1.5ohm,5%,1/4W,TP,3216       | 1    | SA  |        | UAC34    | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        |
| R4CC          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC35    | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        |
| R4FL          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC36    | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        |
|               |             |                                     |      |     |        | UAC4     | 2401-000243 | C-AL;100uF,20%,10V,GP,TP,6.3x5,5    | 1    | SA  |        |
| R4RL          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| R4Y           | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC5     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R4YR          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC6     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R5FL          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UAC7     | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |
| R5RL          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UAC8     | 2401-000487 | C-AL;10uF,20%,50V,GP,TP,6.3x5mm,5   | 1    | SA  |        |
|               |             |                                     |      |     |        | UAC9     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R5SW          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| R5YL          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UAR1     | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R5YR          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UAR12    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R6FL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAR14    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R6RL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAR15    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|               |             |                                     |      |     |        | UAR16    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R6SW          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| R6YL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAR17    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R6YR          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAR18    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R7CC          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UAR2     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R8CC          | 2007-000034 | R-CHIP;10OHM,5%,1/4W,TP,3216        | 1    | SA  |        | UAR22    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
|               |             |                                     |      |     |        | UAR25    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| R8FL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| R8RL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UAR26    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| R8YL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UAR3     | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R8YR          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UAR33    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| R9CC          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | UAR37    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|               |             |                                     |      |     |        | UAR44    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R9FL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| R9RL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UAR46    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R9YL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UAR48    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R9YR          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UAR5     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RESQ1         | 1203-003526 | IC-VOL. DETECTOR;KIA7029AP,TO-92,3P | 1    | SA  |        | UAR50    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|               |             |                                     |      |     |        | UAR52    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| SCREW_TAPTITE | 6003-000276 | SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(W | 4    | SNA |        |          |             |                                     |      |     |        |
| SDR1          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UAR6     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| SHIELD_SPK    | AH63-01265A | SHIELD-SHIELD-SPK;HT-Q40,PBS,0.3T,- | 2    | SNA |        | UAR7     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| SPK1          | 3716-001131 | TERMINAL-BLOCK;SOLDER,6P,-,-,-      | 1    | SA  |        | UAR9     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| SPK2          | 3716-001131 | TERMINAL-BLOCK;SOLDER,6P,-,-,-      | 1    | SA  |        | UPIC1    | 1204-002627 | IC-MODULATOR;PS9829B,LQFP,100P,14x1 | 1    | SA  |        |
|               |             |                                     |      |     |        | UPIC2    | AH14-10004R | IC-CMOS LOGIC;74HCU04,-,SOP,14P,-,- | 1    | SA  |        |
| UAC1          | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |          |             |                                     |      |     |        |
| UAC11         | 2401-001355 | C-AL;470uF,20%,10V,GP,TP,8x11.5mm,5 | 1    | SA  |        | UPX1     | 2801-004354 | CRYSTAL-UNIT;12.288MHZ,30PPM,ATS-49 | 1    | SA  |        |
| UAC12         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          | AH99-10011K | ASSY PCB-AMP;m;HT-Z410,AMP ASSY     | 1    | SNA |        |
| UAC13         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                     |      |     |        |
| UAC14         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                     |      |     |        |
|               |             |                                     |      |     |        |          |             |                                     |      |     |        |
| UAC15         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                     |      |     |        |
| UAC16         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                     |      |     |        |
| UAC17         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | ACON1    | AH39-00941A | WIRE HARNESS;HT-X50,-,-,3,500mm+-10 | 1    | SA  |        |
| UAC18         | 2401-001355 | C-AL;470uF,20%,10V,GP,TP,8x11.5mm,5 | 1    | SA  |        | AGB1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,1150 | 1    | SA  |        |
| UAC19         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | AGC1     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
|               |             |                                     |      |     |        | AJACK1   | 3722-001588 | JACK-PHONE;7P,3.6PI,AG,BLK,-        | 1    | SA  |        |
|               |             |                                     |      |     |        |          |             |                                     |      |     |        |
| UAC2          | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | BRK      | AH63-01333A | SHIELD-JACK;HT-X51H,SPTE,T0.3,-,-,- | 1    | SA  |        |
| UAC20         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C1       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |
| UAC21         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C2       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |
| UAC22         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C3       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |

## Exploded View & Part List

| Loc. No. | Part No.    | Description;Specification            | Q'ty  | SNA | Remark | Loc. No. | Part No.    | Description;Specification            | Q'ty  | SNA | Remark |
|----------|-------------|--------------------------------------|-------|-----|--------|----------|-------------|--------------------------------------|-------|-----|--------|
| C4       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608      | 1     | SA  |        | ZQ2      | 0504-000128 | TR-DIGITAL;- ,NPN,200MW,22K/22K,SOT- | 1     | SA  |        |
|          |             |                                      |       |     |        | ZQ3      | 0504-000128 | TR-DIGITAL;- ,NPN,200MW,22K/22K,SOT- | 1     | SA  |        |
| C7       | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16  | 1     | SA  |        | ZQ4      | 0501-000002 | TR-SMALL SIGNAL;KSA812,PNP,150MW,SO  | 1     | SA  |        |
| C8       | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608   | 1     | SA  |        |          |             |                                      |       |     |        |
| C9       | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608   | 1     | SA  |        | ZR1      | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| CN24     | 3708-002312 | CONNECTOR-FPC/FFC/PIC;24P,1.25mm,ST  | 1     | SA  |        | ZR10     | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| CON6A    | 3711-005875 | HEADER-BOARD TO CABLE;NOWALL,10P,2R  | 1     | SA  |        | ZR100    | 2007-000101 | R-CHIP;82Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |
|          |             |                                      |       |     |        | ZR11     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| CON6B    | 3710-000209 | SOCKET-BOARD TO BOARD;5P,1R,2mm,STR  | 1     | SA  |        | ZR12     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| CON6C    | 3710-000209 | SOCKET-BOARD TO BOARD;5P,1R,2mm,STR  | 1     | SA  |        |          |             |                                      |       |     |        |
| CONU1    | AH39-00942A | WIRE HARNESS;HT-X50,-,-,4,390mm+-10  | 1     | SA  |        | ZR13     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| D4       | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        | ZR14     | 2007-000079 | R-CHIP;1.8Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| ESDF4    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-      | 1     | SA  |        | ZR15     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |
|          |             |                                      |       |     |        | ZR16     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| ESDF5    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-      | 1     | SA  |        | ZR17     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1     | SA  |        |
| FD1      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        |          |             |                                      |       |     |        |
| FD2      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        | ZR18     | 2007-000121 | R-CHIP;820ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| FD3      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        | ZR19     | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| FL1      | AH07-00224A | VF DISPLAY;11SM72T,HT-Z410,135.2X18  | 1     | SA  |        | ZR2      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |
|          |             |                                      |       |     |        | ZR20     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1     | SA  |        |
| HOLD VFD | AH61-02520A | HOLDER-VFD;HT-Z410/510,ABS,T1.5,W13  | 1     | SA  |        | ZR25     | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| L1       | 2703-000397 | INDUCTOR-SMD;33uH,10%,2520           | 1     | SA  |        |          |             |                                      |       |     |        |
| L2       | 2703-000397 | INDUCTOR-SMD;33uH,10%,2520           | 1     | SA  |        | ZR28     | 2007-000123 | R-CHIP;1.5Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| PCBFRONT | AH41-01096A | PCB-FRONT;HT-Z410,PENNOL,2,0,1.6T,3  | 0.333 | SNA |        | ZR2A     | 2007-000451 | R-CHIP;180ohm,5%,1/4W,TP,3216        | 1     | SA  |        |
| R11      | 2007-000121 | R-CHIP;820ohm,5%,1/10W,TP,1608       | 1     | SA  |        | ZR3      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |
|          |             |                                      |       |     |        | ZR4      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| R51      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        | ZR5      | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1     | SA  |        |
| R52      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |          |             |                                      |       |     |        |
| R53      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        | ZR6      | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| R7       | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        | ZR7      | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| R8       | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        | ZR8      | 2007-000123 | R-CHIP;1.5Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
|          |             |                                      |       |     |        | ZR9      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| REMO     | 0609-001189 | MODULE REMOCON;HORIZONTAL,16.4MM,TR  | 1     | SA  |        |          | AH97-02596E | ASSY-KITTING FRONT;HT-Z410/USA,-     | 1     | SNA |        |
| SR1      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1     | SA  |        |          |             |                                      |       |     |        |
| SR2      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1     | SA  |        |          | 3301-000132 | CORE-FERRITE;AC,28.8x19.3x7.5mm,140  | 1     | SA  |        |
| SW1      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |          | 3809-001925 | CABLE-FLAT;30V,80C,250mm,24P,1.25mm  | 1     | SA  |        |
| SW10     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |          | AH99-10011J | ASSY PCB-FRONT,m;HT-Z410,FRONT ASSY  | 1     | SNA |        |
|          |             |                                      |       |     |        |          |             |                                      |       |     |        |
| SW11     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |          |             |                                      |       |     |        |
| SW12     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |          | AH97-02597A | ASSY DVD DECK-5DVD;XAA,CMS-S75,SDM-  | 1     | SA  |        |
| SW13     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        | DC14     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160  | 1     | SA  |        |
| SW14     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        | DR15     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| SW15     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        | DR51     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
|          |             |                                      |       |     |        | IC11     | 1003-001978 | IC-MOTOR DRIVER;AM5766,HSOP28H,28P,  | 1     | SA  |        |
| SW2      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |          |             |                                      |       |     |        |
| SW3      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        | IC13     | 1201-001842 | IC-OP AMP;TL3472CD,SO,TP,8P,-,DUAL,  | 1     | SA  |        |
| SW4      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        | MJ4      | 3708-001878 | CONNECTOR-FPC/FFC/PIC;6P,1MM,SMD-A,  | 1     | SA  |        |
| SW5      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        | MJ4_1    | 3711-002807 | HEADER-BOARD TO CABLE;BOX,6P,1R,2mm  | 1     | SA  |        |
| SW8      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        | PCB      | AH41-01097A | PCB-RF;HT-Z410,PENNOL,2,0,1.6T,247*  | 0.167 | SNA |        |
|          |             |                                      |       |     |        | Q1       | 0504-000128 | TR-DIGITAL;- ,NPN,200MW,22K/22K,SOT- | 1     | SA  |        |
| SW9      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |          |             |                                      |       |     |        |
| USBJ     | 3722-002313 | JACK-USB;4P/1C,AU30U,BLK,SSTRAIGHT,A | 1     | SA  |        | Q2       | 0504-000128 | TR-DIGITAL;- ,NPN,200MW,22K/22K,SOT- | 1     | SA  |        |
| USC1     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608    | 1     | SA  |        | Q3       | 0504-000128 | TR-DIGITAL;- ,NPN,200MW,22K/22K,SOT- | 1     | SA  |        |
| USC2     | 2401-001492 | C-AL;47uF,20%,16V,GP,-,5x7mm,2.5     | 1     | SA  |        | Q4       | 0501-000632 | TR-SMALL SIGNAL;2SB1197K,PNP,200mW,  | 1     | SA  |        |
| VOL1     | 3406-001047 | SWITCH-ROTARY;5V DC,0.5mA,-,12mm     | 1     | SA  |        | Q5       | 0501-000632 | TR-SMALL SIGNAL;2SB1197K,PNP,200mW,  | 1     | SA  |        |
|          |             |                                      |       |     |        | R101     | 2007-000082 | R-CHIP;3.3Kohm,5%,1/10W,TP,1608      | 1     | SA  |        |
| VR1      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |          |             |                                      |       |     |        |
| VR2      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1     | SA  |        | RB1      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o  | 1     | SA  |        |
| ZC100    | 2401-000243 | C-AL;100uF,20%,10V,GP,TP,6.3x5.5     | 1     | SA  |        | RC1      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160  | 1     | SA  |        |
| ZC101    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608    | 1     | SA  |        | RC10     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16  | 1     | SA  |        |
| ZC102    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608    | 1     | SA  |        | RC13     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16  | 1     | SA  |        |
|          |             |                                      |       |     |        | RC14     | 2402-001096 | C-AL,SMD;220UF,20%,16V,GP,TP,6.6X6.  | 1     | SA  |        |
| ZC103    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608    | 1     | SA  |        |          |             |                                      |       |     |        |
| ZC2      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608    | 1     | SA  |        | RC16     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160  | 1     | SA  |        |
| ZC4      | 2401-001492 | C-AL;47uF,20%,16V,GP,-,5x7mm,2.5     | 1     | SA  |        | RC23     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608      | 1     | SA  |        |
| ZIC1     | 1003-001541 | IC-VFD;PT6315,LQFP,44P,10X10MM,-,-,4 | 1     | SA  |        | RC24     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608      | 1     | SA  |        |
| ZJACK1   | 3722-001588 | JACK-PHONE;7P,3.6PI,AG,BLK,-         | 1     | SA  |        | RC25     | 2402-001042 | C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.  | 1     | SA  |        |
|          |             |                                      |       |     |        | RC26     | 2402-001042 | C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6.  | 1     | SA  |        |
| ZLD1     | 0601-002482 | LED;ROUND,RED/BLUE,5.40x9.50mm,R=6   | 1     | SA  |        |          |             |                                      |       |     |        |
| ZQ1      | 0501-000002 | TR-SMALL SIGNAL;KSA812,PNP,150MW,SO  | 1     | SA  |        | RC33     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160  | 1     | SA  |        |

| Loc. No. | Part No.    | Description;Specification            | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|--------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| RC35     | 2402-000175 | C-AL,SMD;470uF,20%,6.3V,-,-,8.3x8.3  | 1    | SA  |        |          |             |                                     |      |     |        |
| RC58     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16  | 1    | SA  |        |          | AH97-02650A | ASSY-IPOD CRADLE;IPOD-CRADLE,89*56* | 1    | SA  |        |
| RC59     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16  | 1    | SA  |        |          | AH81-04241A | COVER-IPOD CLASSIC 80GB;iPod Dockin | 1    | SA  |        |
| RC6      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16  | 1    | SA  |        |          | AH81-04242A | COVER-IPOD CLASSIC 160GB;iPod Docki | 1    | SA  |        |
|          |             |                                      |      |     |        |          | AH81-04243A | COVER-IPOD NANO 3RD;iPod Docking,AB | 1    | SA  |        |
|          |             |                                      |      |     |        |          | AH81-04244A | COVER-IPHONE;iPod Docking,ABS+PMMA, | 1    | SA  |        |
| RC9      | 2402-001096 | C-AL,SMD;220UF,20%,16V,GP,TP,6.6X6.6 | 1    | SA  |        |          |             |                                     |      |     |        |
| RCN1     | 3708-001808 | CONNECTOR-FPC/FFC/PIC;24P,0.5MM,SMD  | 1    | SA  |        |          |             |                                     |      |     |        |
| RCN2     | 3710-002223 | SOCKET-BOARD TO CABLE;30P,2R,2mm,SM  | 1    | SA  |        |          | AH81-04245A | COVER-IPOD TOUCH;iPod Docking,ABS+P | 1    | SA  |        |
| RD2      | 0407-000116 | DIODE-ARRAY;KDS181, DAP202K,80V,100  | 1    | SA  |        |          |             |                                     |      |     |        |
| RL1      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA  | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RL2      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA  | 1    | SA  |        |          | AH59-01907E | REMOCON-ASSY;HT-Z410/EXP,SAMSUNG,23 | 1    | SA  |        |
|          |             |                                      |      |     |        |          | AH69-02154A | MASTER CARTON;HT-Z410/510,PAPER,T7, | 1.02 | SNA |        |
| RR10     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1    | SA  |        |          |             |                                     |      |     |        |
| RR100    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR11     | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR12     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR13     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1    | SA  |        |          |             |                                     |      |     |        |
| RR15     | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| RR19     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR23     | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| RR24     | 2007-000458 | R-CHIP;18Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR26     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| RR27     | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR28     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR29     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1    | SA  |        |          |             |                                     |      |     |        |
| RR30     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR33     | 2007-000120 | R-CHIP;680ohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR34     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR35     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR36     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR37     | 2007-000130 | R-CHIP;39Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR41     | 2007-000092 | R-CHIP;15Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR44     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| RR51     | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR54     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR57     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR58     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR59     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR6      | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR60     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR61     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR62     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR63     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR64     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR65     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR66     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR67     | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR68     | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR7      | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR70     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1    | SA  |        |          |             |                                     |      |     |        |
| RR71     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR8      | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR9      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR92     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| RR96     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| RR97     | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
|          |             |                                      |      |     |        |          |             |                                     |      |     |        |
| RR98     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR99     | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
|          | AH92-02785A | ASSY PCB-RF;HT-Z410,RF ASSY          | 1    | SA  |        |          |             |                                     |      |     |        |
|          | AH99-10011L | ASSY PCB-RF,m;HT-Z410,RF ASSY        | 1    | SNA |        |          |             |                                     |      |     |        |

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| Loc. No. | Part No.    | Description;Specification             | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification             | Q'ty | SNA | Remark |
|----------|-------------|---------------------------------------|------|-----|--------|----------|-------------|---------------------------------------|------|-----|--------|
|          | 2001-000429 | R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.   | 2    | SA  |        |          | AH81-02698A | WIRE-JUMPER;TIN 0.6t(7.5mm),-,-,-,-   | 5    | SNA |        |
|          | 2001-000449 | R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X   | 1    | SA  |        |          | AH81-02703A | WIRE-JUMPER;TIN 0.6t(10.0mm),-,-,-,-  | 14   | SNA |        |
|          | 2001-000472 | R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X   | 1    | SA  |        |          | AH81-02710A | WIRE-JUMPER;TIN 0.6t(15.0mm),-,-,-,-  | 4    | SNA |        |
|          | 2001-000522 | R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3   | 2    | SA  |        |          |             |                                       |      |     |        |
|          | 2001-000660 | R-CARBON;33KOHM,5%,1/8W,AA,TP,1.8X3   | 5    | SA  |        |          | AH81-02712A | WIRE-JUMPER;TIN 0.6t(17.5mm),-,-,-,-  | 7    | SNA |        |
|          | 2001-000666 | R-CARBON;33OHM,5%,1/8W,AA,TP,1.8X3.   | 1    | SA  |        |          | AH81-02716A | WIRE-JUMPER;TIN 0.6t(20mm),-,-,-,-    | 3    | SNA |        |
|          | 2001-000734 | R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X   | 3    | SA  |        |          | AH81-02717A | WIRE-JUMPER;TIN 0.6t(12.5mm),-,-,-,-  | 9    | SNA |        |
|          | 2001-000780 | R-CARBON;470OHM,5%,1/8W,AA,TP,1.8X3   | 1    | SA  |        |          | AH81-02763A | C-AL;33uF,50V,6.3*11mm,-40 to +85C,-  | 1    | SA  |        |
|          | 2001-000786 | R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3   | 2    | SA  |        |          | AH81-02765A | IC-REGULATOR;KA78R08,1A,8V,TO-220F-   | 1    | SA  |        |
|          | 2001-000869 | R-CARBON;56OHM,5%,1/8W,AA,TP,1.8X3.   | 1    | SA  |        |          | AH81-02766A | TRANSISTOR;KSP2222A,Vceo 40V,Pc 625   | 1    | SA  |        |
|          | 2001-001096 | R-CARBON(S);2.2OHM,5%,1/2W,AA,TP,2.   | 1    | SA  |        |          | AH81-02776A | INDUCTOR-RADIAL-LINE FILTER;KE-13M2   | 2    | SA  |        |
|          | 2003-000738 | R-METAL OXIDE(S);56Kohm,5%,2W,AA,TP   | 1    | SA  |        |          | AH81-02803A | IC-REGULATOR;KA278R33,3.3V,TO-220F-   | 1    | SA  |        |
|          | 2201-000020 | C-CERAMIC,DISC;10NF,10%,1KV,Y5P,BK,   | 2    | SA  |        |          | AH81-02815A | C-AL;100uF,25V,6.3*11mm,-40 to +85C   | 1    | SA  |        |
|          | 2201-000021 | C-CERAMIC,DISC;100NF,+80-20%,50V,Y5   | 2    | SA  |        |          | AH81-02816A | C-AL;1uF,50V,5*11mm,-40 to +85C,-,-   | 1    | SA  |        |
|          | 2401-000649 | C-AL;2.2uF,20%,50V,BP,TP,5x11,5       | 1    | SA  |        |          | AH81-02838A | RESISTOR-CARBON FILM;1/8W,18Kohm,1%   | 1    | SA  |        |
|          | 2401-002300 | C-AL;47##F,20%,50V,GP,TP,6.3x11,5mm   | 5    | SA  |        |          | AH81-02866A | C-AL;22uF/50v,5*11mm,-40 to +85C,-,-  | 1    | SA  |        |
|          | 2401-003036 | C-AL;100uF,20%,16V,GP,TP,5X11mm,5mm   | 1    | SA  |        |          | AH81-02867A | C-AL;2200uF/10V,10x20mm,-40 to +105   | 2    | SA  |        |
|          | 3809-001234 | CABLE-FLAT;30V,80C,150mm,13P,1.25mm   | 1    | SA  |        |          | AH81-02882A | CONNECTOR;20017WSR-15A00(2.0mm,-,-,-  | 1    | SA  |        |
|          | 3809-001926 | CABLE-FLAT;30V,80C,60mm,28P,1.25mm,   | 1    | SA  |        |          | AH81-02917A | RESISTOR-METAL OXIDE FILM;2W 0.22 o   | 1    | SA  |        |
|          | AH40-00089A | TUNER-PACK;KST-ML001FA0-52S,FM,-,-,-  | 1    | SA  |        |          | AH81-02931A | CAPACITOR-MYLAR;0.82nF/100V (2A821)   | 1    | SA  |        |
|          | AH65-30010A | CLAMP-WIRE;-,-,-,-,-,-,-,-            | 2    | SNA |        |          | AH81-02949A | CONNECTOR;YMW025-11R 2.5mm,-,-,-,-,-  | 1    | SA  |        |
|          | AH81-02494A | DIODE-SUPER FAST RECTIFIER;SF3006PT   | 1    | SA  |        |          | AH81-02965A | IC;KA78R05,-,-,-,-,-,-,-,-            | 1    | SA  |        |
|          | AH81-02505A | DIODE-ZENER;1N5239B,0.5W,9.1V,DO-35   | 1    | SA  |        |          | AH81-02969A | IC;STR-X6757,-,-,-,-,-,-,-,-          | 1    | SA  |        |
|          | AH81-02506A | DIODE-ZENER;1N5231B,0.5W,5.1V,DO-35   | 2    | SA  |        |          | AH81-02986A | RESISTOR-CARBON FILM;1/8W 47 ohm,1%   | 1    | SA  |        |
|          | AH81-02521A | DIODE-SWITCHING;1N4148,500mW,DO-35,   | 2    | SA  |        |          | AH81-02993A | RESISTOR-CARBON FILM;1/4W 100 ohm,5   | 1    | SA  |        |
|          | AH81-02522A | DIODE-ZENER;1N4758A,56V,4.5mA,DO-41   | 3    | SA  |        |          | AH81-02996A | RESISTOR-CARBON FILM;1/4W 1K ohm,5%   | 1    | SA  |        |
|          | AH81-02524A | C-FILM MPEF;0.1uF,100V,5%,TP,-,-,-,-  | 1    | SA  |        |          | AH81-03020A | RESISTOR-METAL OXIDE FILME;2W 0.15    | 1    | SA  |        |
|          | AH81-02525A | INDUCTOR-AXIAL-BEAD CORE;BFS3550AOL   | 3    | SA  |        |          | AH81-03024A | RESISTOR-METAL OXIDE FILME;2W 33K o   | 2    | SA  |        |
|          | AH81-02534A | C-AL-LARGE TYPES;470uF,250V,22*40mm   | 2    | SA  |        |          | AH81-03099A | HEAT SINK;-,-,-,15*11*22(HOLE)*25/S   | 1    | SA  |        |
|          | AH81-02536A | C-AL;1000uF,50V,13*25mm,-40 to +105   | 6    | SA  |        |          | AH81-03122A | DIODE;UF4004,-,-,-,-,-,-,-,-          | 3    | SA  |        |
|          | AH81-02540A | DIODE-FAST RECOVERY;FR304,3A,400V,R   | 1    | SA  |        |          | AH81-03128A | DIODE-ZENER;1N5235B/6.8V,-,-,-,-,-,-  | 1    | SA  |        |
|          | AH81-02544A | PHOTO COUPLER;LTV817B,If 50mA,Vceo    | 4    | SA  |        |          | AH81-03158A | RESISTOR-CARBON FILM;1/8W 150 ohm,5   | 1    | SA  |        |
|          | AH81-02545A | INDUCTOR-RADIAL-CHOKE COIL;RADIAL,2   | 2    | SA  |        |          | AH81-03160A | RESISTOR-CARBON FILM;1/8W 5.6K ohm,   | 1    | SA  |        |
|          | AH81-02546A | IC-REGULATOR;KA7912,Vo = -12V,-,-,-,- | 1    | SA  |        |          | AH81-03161A | RESISTOR-CARBON FILM;1/8W 470K ohm,   | 1    | SA  |        |
|          | AH81-02551A | IC-REGULATOR;KA78R12,TO-220F-4L,Vo    | 1    | SA  |        |          | AH81-03178A | RESISTOR-METAL OXIDE FILM;2W 200K o   | 1    | SA  |        |
|          | AH81-02553A | THERMISTOR;3D15,-,-,-,-,-,-,-,-       | 1    | SA  |        |          | AH81-03180A | RESISTOR-SURGE ARRESTER;Y08UZ-230B,   | 1    | SA  |        |
|          | AH81-02558A | CONNECTOR;5096-02C,7.92mm,-,-,-,-,-,- | 1    | SA  |        |          | AH81-03195A | CAPACITOR-MYLAR;0.027uF/(100V),(2A2   | 1    | SNA |        |
|          | AH81-02565A | C-FILM MPEF-MPP FILM;0.1uF,275VAC-P   | 1    | SA  |        |          | AH81-03198A | CAPACITOR-METAL;ME630V/103(5mm),-,-   | 2    | SNA |        |
|          | AH81-02573A | INSULATOR-SHEET;20*30,-,-,-,-,-,-,-   | 1    | SA  |        |          | AH81-03199A | CAPACITOR-METAL;ME630V/222(5mm),-,-   | 1    | SA  |        |
|          | AH81-02575A | SCREW-PH;M3*8 ASSEMBLY,-,-,-,-,-,-,-  | 1    | SNA |        |          | AH81-03200A | C-CERAMIC DISK;330pF/1KV(331/1KV),-   | 1    | SA  |        |
|          | AH81-02576A | SCREW-PH;M3*10 ASSEMBLY,-,-,-,-,-,-,- | 2    | SA  |        |          | AH81-03201A | C-AL;2200uF/10V,10x20mm,-40 to +85C   | 1    | SA  |        |
|          | AH81-02596A | RESISTOR-CARBON FILM;1/8W,910 ohm,1   | 1    | SA  |        |          | AH81-03204A | C-AL;3300uF/6.3V,10*20mm,-40 to +10   | 1    | SA  |        |
|          | AH81-02608A | C-AL;470uF,16V,8*12mm,-40TO+85C,-,-   | 1    | SA  |        |          | AH81-03205A | C-AL;220uF/16V,6.3*11mm,-40 to +105   | 1    | SA  |        |
|          | AH81-02609A | C-AL;470uF,25V,10*12.5mm,-40 to +85   | 2    | SA  |        |          | AH81-03207A | C-AL;100uF/25V,5x11mm,-40 to +105C,   | 1    | SA  |        |
|          | AH81-02612A | RESISTOR-CARBON FILM;1/8W,150 ohm,1   | 1    | SA  |        |          | AH81-03212A | DIODE;SR306 (M-FORMING),-,-,-,-,-,-,- | 1    | SA  |        |
|          | AH81-02614A | RESISTOR-CARBON FILM;1/8W,1.2K ohm,   | 2    | SA  |        |          | AH81-03213A | DIODE;SR504 M-FORMING,-,-,-,-,-,-,-   | 1    | SA  |        |
|          | AH81-02617A | RESISTOR-SURGE;1/2W,1.5M ohm,5%,SUR   | 1    | SA  |        |          | AH81-03215A | DIODE-BRIGE;TS10B05G,-,-,-,-,-,-,-    | 1    | SA  |        |
|          | AH81-02628A | DIODE-FAST RECOVERY RECTIFIERS;FR10   | 9    | SA  |        |          | AH81-03227A | TRANS;ORTP-617(T1),EER4242(V),-,-,-   | 1    | SA  |        |
|          | AH81-02641A | C-FILM MPEF-MYLAR;0.0027uF,100V,5%,   | 1    | SA  |        |          | AH81-03228A | TRANS;ORTP-617(T2),EER2828(V),-,-,-   | 1    | SA  |        |
|          | AH81-02642A | C-FILM MPEF-MYLAR;0.0047uF,100V,5%,   | 1    | SA  |        |          | AH81-03229A | FUSE-CLIP;FC51F,-,-,-,-,-,-,-,-       | 2    | SA  |        |
|          | AH81-02645A | C-FILM MPEF-MPP FILM;0.47uF,275VAC-   | 1    | SA  |        |          | AH81-03230A | FUSE;10A/AC250V 215xxx,(ceramic),-    | 1    | SA  |        |
|          | AH81-02648A | C-CERAMIC DISK;1000pF,400VAC-Y1,20%   | 2    | SA  |        |          | AH81-03231A | VARISTOR;14D471,-,-,-,-,-,-,-,-       | 1    | SA  |        |
|          | AH81-02649A | C-CERAMIC DISK;1500pF,400VAC-Y1,20%   | 1    | SA  |        |          | AH81-03233A | PCB;197*176*1.6(FR-1),-,-,-,-,-,-,-   | 1    | SNA |        |
|          | AH81-02651A | C-AL;6800uF,6.3V,12.5*25mm,-40 to +   | 1    | SA  |        |          | AH81-03240A | HEAT SINK;-,-,-,52.3*16.8*26(HOLE)*   | 1    | SA  |        |
|          | AH81-02657A | C-AL;220uF,25V,8*12mm,-40 to +85C,-   | 1    | SA  |        |          | AH81-03244A | HEAT SINK;-,-,-,45*18*28(Hole)*45/S   | 1    | SA  |        |
|          | AH81-02666A | C-AL;47uF,50V,6.3*11mm,-40 to +105C   | 2    | SA  |        |          | AH81-03285A | CAPACITOR-METAL CAP;ME1000V/152(17.   | 1    | SA  |        |
|          |             |                                       |      |     |        |          | AH97-02595C | ASSY-KITTING PCB;HT-2510/USA,-        | 1    | SNA |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.                                           | Description;Specification           | Q'ty     | SNA       | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|----------------------------------------------------|-------------------------------------|----------|-----------|--------|----------|-------------|-------------------------------------|------|-----|--------|
|          | <b>AH92-02786A ASSY PCB-MAIN;HT-Z510,MAIN ASSY</b> |                                     | <b>1</b> | <b>SA</b> |        | AR39     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AC1      | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        | AR4      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AC10     | 2203-000491                                        | C-CER,CHIP;2.2nF,10%,50V,X7R,1608   | 1        | SA        |        | AR40     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AC11     | 2401-002112                                        | C-AL;10uF,20%,16V,GP,TP,4x7,2.5     | 1        | SA        |        | AR41     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AC12     | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | AR5      | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | AR6      | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AC13     | 2401-001508                                        | C-AL;47uF,20%,16V,GP,TP,6.3x5,5     | 1        | SA        |        | AR7      | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| AC14     | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | AR80     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| AC15     | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        | AR81     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| AC16     | 2203-000783                                        | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1        | SA        |        | BXM1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| AC18     | 2401-001508                                        | C-AL;47uF,20%,16V,GP,TP,6.3x5,5     | 1        | SA        |        | C5       | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | C70      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC19     | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        | C72      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC2      | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        |          |             |                                     |      |     |        |
| AC21     | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | C73      | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |
| AC22     | 2203-000783                                        | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1        | SA        |        | C74      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC23     | 2203-002398                                        | C-CER,CHIP;22nF,10%,50V,X7R,1608    | 1        | SA        |        | C76      | 2401-000240 | C-AL;100uF,20%,10V,GP,TP,5x11,5     | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | C77      | 2401-002042 | C-AL;220uF,20%,10V,GP,TP,6.3x11,5   | 1    | SA  |        |
| AC24     | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        | C78      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC25     | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        |          |             |                                     |      |     |        |
| AC26     | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | C79      | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |
| AC27     | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | C80      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC28     | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | C81      | 2401-000240 | C-AL;100uF,20%,10V,GP,TP,5x11,5     | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | C82      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| AC3      | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        | C83      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| AC4      | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        |          |             |                                     |      |     |        |
| AC45     | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        | C84      | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| AC46     | 2401-000651                                        | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1        | SA        |        | C85      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        |
| AC5      | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | C86      | 2203-000697 | C-CER,CHIP;0.002NF,0.25PF,50V,C0G,T | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | CEC1     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC6      | 2203-005148                                        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1        | SA        |        | CEC2     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC7      | 2401-000042                                        | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1        | SA        |        |          |             |                                     |      |     |        |
| AC8      | 2401-000042                                        | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1        | SA        |        | CEC42    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AC9      | 2203-000491                                        | C-CER,CHIP;2.2nF,10%,50V,X7R,1608   | 1        | SA        |        | CEC43    | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| AIC1     | 1002-001548                                        | IC-A/D CONVERTER;CS5345,24,LQFP,48P | 1        | SA        |        | CEC44    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | CEC45    | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| AJ1      | 3711-000452                                        | CONNECTOR-HEADER;BOX,3P,1R,2mm,STRA | 1        | SA        |        | CEC46    | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| AL1      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        |          |             |                                     |      |     |        |
| AL2      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        | CEC47    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| AL3      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        | CEIC1    | AK09-00159A | IC MICOM;-,MC80C0316-MC015 D32,44,2 | 1    | SA  |        |
| AL4      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        | CEIC2    | 1103-001333 | IC-EEPROM;24C08A,1Kx8Bit,SOP,8P,5x4 | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | CEIC3    | 1203-002425 | IC-POSIFIXED REG.;1117,SOT-223,3P,  | 1    | SA  |        |
| AL5      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        | CEIC4    | 0505-001679 | FET-SILICON;FDC6301N,N,25V,0.22A,50 | 1    | SA  |        |
| AL6      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        |          |             |                                     |      |     |        |
| AL7      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        | CEQ1     | 0501-000341 | TR-SMALL SIGNAL;KSC1623-L,NPN,200mW | 1    | SA  |        |
| AL8      | 3301-001495                                        | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1        | SA        |        | CER1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| AQ1      | 0504-000156                                        | TR-DIGITAL;KSR2103,PNP,200MW,22K/22 | 1        | SA        |        | CER10    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | CER12    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| AQ2      | 0504-000128                                        | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-  | 1        | SA        |        | CER13    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR1      | 2007-000090                                        | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1        | SA        |        |          |             |                                     |      |     |        |
| AR10     | 2007-000102                                        | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1        | SA        |        | CER14    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR11     | 2007-000094                                        | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER15    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR19     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER16    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | CER17    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR2      | 2007-000102                                        | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1        | SA        |        | CER18    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR24     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        |          |             |                                     |      |     |        |
| AR25     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER19    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR28     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER2     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| AR3      | 2007-000102                                        | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1        | SA        |        | CER20    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | CER21    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR30     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER22    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR31     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        |          |             |                                     |      |     |        |
| AR32     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER27    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR33     | 2007-000098                                        | R-CHIP;56Kohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER28    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR34     | 2007-000098                                        | R-CHIP;56Kohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER3     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          |                                                    |                                     |          |           |        | CER30    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| AR37     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        | CER33    | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| AR38     | 2007-000074                                        | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1        | SA        |        |          |             |                                     |      |     |        |

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| CER34    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | HC50     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CER35    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | HC51     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CER36    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | HC53     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CER37    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | HC54     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| CER4     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | HC55     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| CER45    | 2802-001179 | RESONATOR-CERAMIC;4MHZ,0.5%,BK,8X3X | 1    | SA  |        | HC60     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CER47    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | HC61     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CER5     | 2007-000093 | R-CHIP;20Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | HC62     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CER6     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608       | 1    | SA  |        | HC64     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        |
| CER7     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | HC66     | 2401-001508 | C-AL;47uF,20%,16V,GP,TP,6.3x5.5     | 1    | SA  |        |
| CER8     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | HC68     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CER9     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | HC69     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CN5      | 3711-000471 | HEADER-BOARD TO CABLE;3WALL,4P,1R,2 | 1    | SA  |        | HC70     | 2401-001508 | C-AL;47uF,20%,16V,GP,TP,6.3x5.5     | 1    | SA  |        |
| CNXM2    | AH37-00022A | PLUG-USB;4P,AU,UL94V-0,SMD,USB      | 1    | SA  |        | HC71     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CON1     | 3708-001086 | CONNECTOR-FPC/FFC/PIC;28P,1.25MM,ST | 1    | SA  |        | HC72     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CON3     | AH39-00824A | WIRE HARNESS;HT-Q40,-,-,15,150mm,BL | 1    | SA  |        | HC73     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| CON6     | 3708-000237 | CONNECTOR-FPC/FFC/PIC;24P,1.25mm,ST | 1    | SA  |        | HC74     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CON7     | 3711-000682 | HEADER-BOARD TO CABLE;BOX,13P,1R,2M | 1    | SA  |        | HC75     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        |
| CON8     | 3708-000448 | CONNECTOR-FPC/FFC/PIC;6P,1.25MM,STR | 1    | SA  |        | HC76     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CON9     | 3709-001287 | CONNECTOR-CARD SLOT;10P,1.5mm,SMD-A | 1    | SA  |        | HC85     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        |
| CSC1     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | HC86     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CSC2     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | HC87     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| CSR1     | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | HC88     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        |
| CSR2     | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | HC89     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CV1      | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | HC90     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CV2      | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | HC91     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CXD1     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HC92     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CXD2     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        | HC93     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CXD3     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HC94     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| CXD4     | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | HD1      | 0402-000309 | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1    | SA  |        |
| CXD5     | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7.5       | 1    | SA  |        | HD11     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| CXM1     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        | HD15     | 0402-000309 | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1    | SA  |        |
| CXM10    | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        | HDCN2    | 3701-001313 | CONNECTOR-HDMI;19P,2R,PLUG,ANGLE,AU | 1    | SA  |        |
| CXM12    | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        | HIC20    | 1205-003381 | IC-TRANSMITTER;ES7108S,LQFP,80P,12x | 1    | SA  |        |
| CXM13    | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        | HL1      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| CXM15    | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        | HL10     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CXM17    | 2203-000851 | C-CER,CHIP;0.039nF,5%,50V,C0G,1608  | 1    | SA  |        | HL100    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| CXM2     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL101    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| CXM3     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL103    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| CXM30    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL11     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CXM4     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL12     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CXM5     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL13     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| CXM6     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL16     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| CXM7     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL17     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| CXM8     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | HL18     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| CXM9     | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        | HL19     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| DHD4     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | HL2      | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        |
| DHD5     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | HL20     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| DL81     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | HL21     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| DR1      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | HL22     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| EC3      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | HL23     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| EC4      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | HL3      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| EMCB1    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | HL52     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| EMCB2    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | HL53     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| ESD15    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HL7      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| ESD31    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HPD1     | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA, | 1    | SA  |        |
| ESD4     | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HPD2     | 0401-001099 | DIODE-SWITCHING;1N4148WS,75V,150mA, | 1    | SA  |        |
| ESD5     | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-     | 1    | SA  |        | HPQ1     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        |
| HC26     | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        |          |             |                                     |      |     |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| HPQ2     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        | IPC5     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HPQ3     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        | IPL1     | 2901-001302 | FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2 | 1    | SA  |        |
| HPQ4     | 0501-002184 | TR-SMALL SIGNAL;KTD1304,NPN,200mW,S | 1    | SA  |        | IPR2     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |             |                                     |      |     |        | IPR25    | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        |
| HPQ5     | 0504-000156 | TR-DIGITAL;KSR2103,PNP,200MW,22K/22 | 1    | SA  |        | IPR3     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HPUR1    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| HPUR2    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | IPR4     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| HPUR3    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | IPR5     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| HPUR4    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | IPR6     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | J0       | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| HPUR5    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | J1       | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| HPUR6    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |          |             |                                     |      |     |        |
| HQ1      | 0504-000128 | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-  | 1    | SA  |        | J2       | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| HQ4      | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5o | 1    | SA  |        | KBD10    | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HQ5      | 0505-000110 | FET-SILICON;2N7002,N,60V,115mA,7.5o | 1    | SA  |        | KBD12    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
|          |             |                                     |      |     |        | KBD6     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR1      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | KBD7     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR2      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| HR26     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | KBD8     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR27     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | KBD9     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR53     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | LBA5     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
|          |             |                                     |      |     |        | LGND1    | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR54     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | LXD1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR55     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| HR56     | 2007-000729 | R-CHIP;300ohm,5%,1/10W,TP,1608      | 1    | SA  |        | LXM1     | 2703-000125 | INDUCTOR-SMD;10uH,10%,2012          | 1    | SA  |        |
| HR57     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        | LXM2     | 2703-000125 | INDUCTOR-SMD;10uH,10%,2012          | 1    | SA  |        |
| HR58     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        | LXM70    | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
|          |             |                                     |      |     |        | MB04     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| HR59     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MB05     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| HR60     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| HR61     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | MB07     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR62     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MB08     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| HR63     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MB09     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
|          |             |                                     |      |     |        | MC10     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR64     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC100    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR65     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| HR66     | 2007-000503 | R-CHIP;2.2ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC11     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR67     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MC12     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR68     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MC121    | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |
|          |             |                                     |      |     |        | MC122    | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| HR69     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | MC123    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| HR70     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| HR71     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MC124    | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| HR72     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC125    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| HR73     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MC13     | 2203-001086 | C-CER,CHIP;0.0050nF,0.25pF,50V,NP0, | 1    | SA  |        |
|          |             |                                     |      |     |        | MC14     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR76     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | MC143    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HR78     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |          |             |                                     |      |     |        |
| HR79     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | MC15     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| HTK      | AH62-00062G | HEAT SINK-TR;HT-DS400,AL EXTR,-,-,- | 1    | SA  |        | MC16     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IC10     | 0801-002683 | IC-CMOS LOGIC;74HC245,TRANSCEIVER,  | 1    | SA  |        | MC17     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | MC18     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| IC14     | 0801-002518 | IC-CMOS LOGIC;74LCX157,2-INPUT MULT | 1    | SA  |        | MC185    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IC2      | 1103-001333 | IC-EEPROM;24C08A,1Kx8Bit,SOP,8P,5x4 | 1    | SA  |        |          |             |                                     |      |     |        |
| IC4      | 1105-001573 | IC-DRAM;K4S281632,-,128Mbit,8Mx16Bi | 1    | SA  |        | MC19     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IJACK    | 3710-002628 | SOCKET-INTERFACE;18P,1R,0.5mm,SMD-A | 1    | SA  |        | MC20     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC23     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | MC24     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB2     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC25     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB3     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |          |             |                                     |      |     |        |
| IPB4     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC26     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB5     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC27     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB6     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC28     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | MC29     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPB8     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MC300    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| IPC1     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        |          |             |                                     |      |     |        |
| IPC2     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MC302    | 2007-000092 | R-CHIP;15Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| IPC3     | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | MC308    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| IPC4     | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | MC309    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
|          |             |                                     |      |     |        | MC31     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        |



| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| MC310    | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | ML14     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC312    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | ML18     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC313    | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | ML19     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC314    | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        | ML20     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC315    | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        | ML20A    | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC316    | 2007-000092 | R-CHIP;15Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | ML21     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MC32     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | ML22     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC33     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | ML23     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC34     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | ML24     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC35     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | ML35     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC36     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | ML37     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC37     | 2203-000062 | C-CER,CHIP;47nF,+80-20%,50V,Y5V,160 | 1    | SA  |        | ML38     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC38     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | ML39     | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| MC39     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | ML5      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC40     | 2203-000646 | C-CER,CHIP;0.024NF,5%,50V,C0G,TP,16 | 1    | SA  |        | ML6      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC41     | 2203-000681 | C-CER,CHIP;0.027nF,5%,50V,C0G,1608  | 1    | SA  |        | ML9      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MC42     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR01     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC43     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR02     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC44     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR03     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC51     | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608    | 1    | SA  |        | MR04     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC53     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR05     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC54     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR06     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC56     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR07     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC58     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR08     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC59     | 2401-000044 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        | MR09     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC6      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR1      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC62     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR10     | 2011-001344 | R-NETWORK;100ohm,5%,1/16W,L,CHIP,8P | 1    | SNA |        |
| MC63     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR100    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC64     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR101    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MC65     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR102    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MC66     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR103    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MC67     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR104    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MC68     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR108    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MC7      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR109    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MC73     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR11     | 2011-001261 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P, | 1    | SA  |        |
| MC74     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | MR111    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC75     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        | MR112    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC76     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        | MR113    | 2007-000119 | R-CHIP;560ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC77     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR114    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC78     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR115    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MC79     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR116    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC8      | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | MR117    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC80     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR12     | 2011-001261 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P, | 1    | SA  |        |
| MC81     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | MR120    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MC82     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        | MR13     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MC84     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        | MR132    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC85     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR14     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MC91     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR15     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MC92     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | MR16     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MD3A     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | MR166    | 2007-000119 | R-CHIP;560ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MIC1     | 1204-002847 | IC-PAL/NTSC DECODER;ES8391SCC,LQFP, | 1    | SA  |        | MR168    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MIC10    | 0801-002391 | IC-CMOS LOGIC;74LCX00,NAND GATE,TSS | 1    | SA  |        | MR17     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MIC11    | 1003-001508 | IC-MOTOR DRIVER;FAN8082DTF,SOP,8P,2 | 1    | SA  |        | MR193    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MIC12    | 1003-001508 | IC-MOTOR DRIVER;FAN8082DTF,SOP,8P,2 | 1    | SA  |        | MR195    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MIC3     | 1107-001600 | IC-NOR FLASH;MX25L1605A,16Mbit,2Mx8 | 1    | SA  |        | MR199    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MJ1      | 3711-005971 | HEADER-BOARD TO BOARD;NOWALL,30P,2R | 1    | SA  |        | MR2      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| ML10     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR200    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ML11     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | MR201    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| MR203    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR59     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR204    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR6      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR205    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR621    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MR206    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR64     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR208    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | MR65     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR210    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR7      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR22     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MR70     | 2007-000106 | R-CHIP;220Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| MR23     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MR8      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR24     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | MRW3     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MR246    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MRW4     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MR247    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | MX01     | 2801-004284 | CRYSTAL-SMD;27MHZ,10PPM,28-AAN,20PF | 1    | SA  |        |
| MR26     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPIC1    | 0603-001205 | OPTIC TRANSMITTER;5V,13.2Mb/s,-,-,- | 1    | SA  |        |
| MR28     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR10    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR29     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR11    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR30     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR12    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR300    | 2007-000552 | R-CHIP;20ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR13    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR301    | 2007-000552 | R-CHIP;20ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR14    | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR302    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR15    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR303    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR16    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR304    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR17    | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR31     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | OPR18    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| MR313    | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        | OPR19    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| MR315    | 2007-000133 | R-CHIP;330Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | OPR20    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| MR32     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | OPR21    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR321    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | OPR22    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR322    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | OPR23    | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR325    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR24    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR326    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | OPR3     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR327    | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR31    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| MR328    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | OPR32    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| MR33     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | OPR33    | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| MR330    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | OPR36    | 2007-000076 | R-CHIP;330ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR34     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | OPR6     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR35     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPR7     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR36     | 2011-001261 | R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P, | 1    | SA  |        | OPR8     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR37     | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608      | 1    | SA  |        | OPR9     | 2007-000115 | R-CHIP;82ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MR38     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | OPTR1    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MR39     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | OPTR2    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| MR4      | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PB1      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MR43     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | PB3      | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        |
| MR45     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | PB4      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MR46     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PB5      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| MR47     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | PC1      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR48     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | PC10     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| MR5      | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC3      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR501    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC31     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR502    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC32     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR503    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC33     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| MR504    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC34     | 2401-001238 | C-AL;4.7uF,20%,25V,GP,BK,3x5,1mm    | 1    | SA  |        |
| MR505    | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC4      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR508    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PC5      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| MR509    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PC6      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR51     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | PC7      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR52     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | PC8      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR520    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PC9      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| MR530    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | PCBMAIN  | AH41-01095A | PCB-MAIN;HT-Z410,PENNOL,2.0,1.6T,24 | 1    | SNA |        |
| MR540    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PIC2     | 1203-002935 | IC-POS.ADJUST REG.;A1C1171ACE,TO-2  | 1    | SA  |        |
| MR55     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | PR10     | 2007-000293 | R-CHIP;100ohm,5%,1/4W,TP,3216       | 1    | SA  |        |
| MR58     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |          |             |                                     |      |     |        |

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| R1       | 2007-000643 | R-CHIP;270ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RR85     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R10      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RR91     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R11      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RR92     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | RR93     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| R12      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RR94     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| R13      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| R14      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RXD1     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R18      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | RXD2     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R19      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | RXD3     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | RXD4     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R2       | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RXD5     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R20      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                     |      |     |        |
| R21      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | RXD6     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R3       | 2007-000608 | R-CHIP;240ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RXD7     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| R4       | 2007-000118 | R-CHIP;390ohm,5%,1/10W,TP,1608      | 1    | SA  |        | RXD8     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
|          |             |                                     |      |     |        | RXD9     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| R8       | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | RXM1     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R9       | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                     |      |     |        |
| RB09     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | RXM10    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RB1A     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | RXM11    | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RC189    | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        | RXM12    | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |             |                                     |      |     |        | RXM13    | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RC20     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | RXM14    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RC22     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        |          |             |                                     |      |     |        |
| RC27     | 2203-001126 | C-CER,CHIP;0.68nF,10%,50V,X7R,1608  | 1    | SA  |        | RXM2     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| RC28     | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,16 | 1    | SA  |        | RXM3     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RC29     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | RXM4     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |             |                                     |      |     |        | RXM5     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RC31     | 2203-001652 | C-CER,CHIP;470nF,+80-20%,16V,Y5V,16 | 1    | SA  |        | RXM6     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RC36     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |          |             |                                     |      |     |        |
| RC38     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | RXM7     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RC39     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        | RXM8     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RC40     | 2203-001126 | C-CER,CHIP;0.68nF,10%,50V,X7R,1608  | 1    | SA  |        | RXM9     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | RXM90    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RC41     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | RXM91    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RC42     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |          |             |                                     |      |     |        |
| RC43     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | RXM92    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RC44     | 2203-002398 | C-CER,CHIP;22nF,10%,50V,X7R,1608    | 1    | SA  |        | RXM93    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RC47     | 2203-000888 | C-CER,CHIP;4.7nF,10%,50V,X7R,1608   | 1    | SA  |        | TJ1      | 3708-001094 | CONNECTOR-FPC/FFC/PIC;13P,1.25MM,ST | 1    | SA  |        |
|          |             |                                     |      |     |        | TZX      | AH65-30013A | CLAMP-CORD;-,-,-,-,-                | 1    | SA  |        |
| RC48     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        | UC1      | 2401-000759 | C-AL;220nF,20%,50V,GP,TP,5x11mm,5mm | 1    | SA  |        |
| RC49     | 2203-005015 | C-CER,CHIP;150nF,+80-20%,16V,Y5V,16 | 1    | SA  |        |          |             |                                     |      |     |        |
| RC51     | 2401-001938 | C-AL;22uF,20%,25V,GP,TP,5x11mm,5mm  | 1    | SA  |        | UC167    | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| RC52     | 2203-005065 | C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1 | 1    | SA  |        | UC2      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        |
| RC53     | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7.5       | 1    | SA  |        | UC3      | 2409-000123 | C-EDL;47000uF,4uA,5.5V,-BK,-5mm     | 1    | SA  |        |
|          |             |                                     |      |     |        | UC4      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        |
| RC55     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        | UC48     | 2203-000972 | C-CER,CHIP;47nF,10%,16V,X7R,1608    | 1    | SA  |        |
| RC56     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |          |             |                                     |      |     |        |
| RC57     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        | UC5      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| RC58     | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | UC6      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| REG1     | 1203-002935 | IC-POS1.ADJUST REG.;AIC1117ACE,TO-2 | 1    | SA  |        | UC7      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
|          |             |                                     |      |     |        | UC8      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| REG2     | 1203-002935 | IC-POS1.ADJUST REG.;AIC1117ACE,TO-2 | 1    | SA  |        | UC9      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| RFR1     | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        |          |             |                                     |      |     |        |
| RFR2     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UD1      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| RFR3     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UD3      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| RL3      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | UD4      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
|          |             |                                     |      |     |        | UD5      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| RL4      | 2007-000029 | R-CHIP;0ohm,5%,1/8W,TP,2012         | 1    | SA  |        | UD6      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        |
| RL5      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |          |             |                                     |      |     |        |
| RL6      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | UIC1     | 0903-001405 | IC-MICROCONTROLLER;LC87F5CC8A,8Bit, | 1    | SA  |        |
| RR31     | 2007-000077 | R-CHIP;470ohm,5%,1/10W,TP,1608      | 1    | SA  |        | UQ1      | 0501-000341 | TR-SMALL SIGNAL;KSC1623-L,NPN,200mW | 1    | SA  |        |
| RR57     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR1      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | UR104    | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RR77     | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR105    | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RR78     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| RR79     | 2007-000122 | R-CHIP;1.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | UR11     | 2007-000107 | R-CHIP;470Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| RR80     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        | UR115    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| RR84A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UR115A   | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | UR12     | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608       | 1    | SA  |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification       | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|---------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| UR13     | 2007-000402 | R-CHIP;150ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR70     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR146    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR71     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR15     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608   | 1    | SA  |        | UR72     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR15A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR73     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR16     | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608   | 1    | SA  |        | UR74     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR161    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608 | 1    | SA  |        | UR75     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR16A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR76     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR17     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR77     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR17A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR78     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR18     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR79     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR18A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR79A    | 2007-000081 | R-CHIP;2.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| UR19     | 2007-000106 | R-CHIP;220Kohm,5%,1/10W,TP,1608 | 1    | SA  |        | UR80     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR19A    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR81     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR2      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR82     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR20     | 2007-000075 | R-CHIP;220ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR83     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR21     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR84     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR21A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR85     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR22     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR86     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR22A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR87     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR23     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR90     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR24     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        | UR91     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| UR26     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | UR92     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR28     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        | UR93     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR29     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        | UR94     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR3      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC1      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| UR30     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        | VC10     | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        |
| UR31     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC11     | 2401-000487 | C-AL;10uF,20%,50V,GP,TP,6.3x5mm,5   | 1    | SA  |        |
| UR32     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC12     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| UR34     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC13     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| UR35     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC16     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        |
| UR35A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC18     | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        |
| UR37     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC2      | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7.5    | 1    | SA  |        |
| UR38     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC22     | 2402-001042 | C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6. | 1    | SA  |        |
| UR4      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC32     | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        |
| UR42     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC33     | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        |
| UR42A    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC34     | 2203-000280 | C-CER,CHIP;0.01nF,0.5pF,50V,C0G,160 | 1    | SA  |        |
| UR43     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC7      | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        |
| UR44     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC71     | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        |
| UR45     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC8      | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        |
| UR46     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VC9      | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        |
| UR47A    | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | VIC1     | 1204-001978 | IC-VIDEO PROCESS;LA73054,-,36P,-SS  | 1    | SA  |        |
| UR49     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VJ1      | 3722-002027 | JACK-PIN;6P/6C,SN,YEL/GN/WH/BL/RD,A | 1    | SA  |        |
| UR5      | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        | VL1      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| UR50     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VL13     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        |
| UR52     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VL14     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        |
| UR54     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608  | 1    | SA  |        | VL15     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        |
| UR57     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        | VL2      | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        |
| UR58     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        | VL20     | 2703-001254 | INDUCTOR-SMD;1.8uH,10%,2012         | 1    | SA  |        |
| UR59     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        | VR1      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR6      | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        | VR11     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| UR60     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608 | 1    | SA  |        | VR12     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR61     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608   | 1    | SA  |        | VR13     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR65     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VR14     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR66     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VR15     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR67     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VR16     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR68     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VR17     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR69     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VR18     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| UR7      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608  | 1    | SA  |        | VR2      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |



| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|-------------------------------------|------|-----|--------|
| VR20     | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C16YR    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| VR21     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | C17FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| VR22     | 2203-005819 | C-CER,CHIP;1000nF,+80-20%,16V,Y5V,- | 1    | SA  |        | C17RL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| VR3      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C17SW    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| VR37     | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                     |      |     |        |
| VR4      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C17YL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| VR5      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C17YR    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| VR6      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C18FL    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        |
| VR7      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C18RL    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        |
| VR8      | 2007-001167 | R-CHIP;75ohm,5%,1/10W,TP,1608       | 1    | SA  |        | C18SW    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| VR9      | 2007-000125 | R-CHIP;3.9Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | C18YL    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        |
| WD1      | 0402-000309 | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1    | SA  |        | C18YR    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        |
| WD2      | 0402-000309 | DIODE-RECTIFIER;1SR154-400,400V,1A, | 1    | SA  |        | C19CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| XBD1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o | 1    | SA  |        | C19FL    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| XD11     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | C19RL    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| XD12     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | C19YL    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| XD3      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | C19YR    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| XD8      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | C1RL     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| XIC4     | 0802-001007 | IC-CMOS LOGIC;74LCX244,BUFFER/LINE  | 1    | SA  |        | C1SW     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| XMIC1    | 1205-003123 | IC-TRANSCIEVER;XM/DT IC Rev 3B/4A,L | 1    | SA  |        | C1YR     | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| XMIC7    | 1002-001294 | IC-D/A CONVERTER;PCM1742KE,24BIT,TS | 1    | SA  |        | C20CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| XXM1     | 2801-004494 | CRYSTAL-SMD;45.1584MHz,30ppm,SX-1,1 | 1    | SA  |        | C20FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| X-TAL1   | 2802-001174 | RESONATOR-CERAMIC;10MHZ,0.5%,BK,8X3 | 1    | SA  |        | C20YL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| ZD11     | 0403-001008 | DIODE-ZENER;RLZ5.6A,5.6V,5.28-5.55V | 1    | SA  |        | C21FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| ZD12     | 0403-000746 | DIODE-ZENER;RLZ3.9B,3.89-4.16V,500m | 1    | SA  |        | C21SW    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        |
|          | AH99-10011M | ASSY PCB-MAIN,m;HT-Z510,MAIN ASSY   | 1    | SNA |        | C22FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
|          | AH92-02787A | ASSY PCB-AMP;HT-Z510,AMP ASSY       | 1    | SA  |        | C22SW    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        |
| C1       | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C23      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C10CC    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | C23CC    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        |
| C10FL    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        | C23FL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C10RL    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        | C23SW    | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        |
| C10YL    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        | C24      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C10YR    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        | C24CC    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        |
| C11RL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C24FL    | 2401-002300 | C-AL;47##F,20%,50V,GP,TP,6.3x11,5mm | 1    | SA  |        |
| C11SW    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C24YL    | 2401-002300 | C-AL;47##F,20%,50V,GP,TP,6.3x11,5mm | 1    | SA  |        |
| C11YL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C25      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C11YR    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C25SW    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C12CC    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | C26      | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C12RL    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | C26SW    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C12SW    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | C27CC    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C12YL    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | C28CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C12YR    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | C29SW    | 2401-004106 | C-AL;680uF,20%,50V,-,BK,12.5 x 35,5 | 1    | SA  |        |
| C13FL    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C2FL     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        |
| C13RL    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C2RL     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        |
| C13YL    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C2SW     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        |
| C13YR    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C2YL     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        |
| C14FL    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C2YR     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        |
| C14RL    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C3       | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C14YL    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C30CC    | 2401-004106 | C-AL;680uF,20%,50V,-,BK,12.5 x 35,5 | 1    | SA  |        |
| C14YR    | 2203-000783 | C-CER,CHIP;0.33nF,5%,50V,C0G,1608   | 1    | SA  |        | C31CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C15RL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C31SW    | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        |
| C15SW    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C32CC    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| C15YL    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C33SW    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C15YR    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C34CC    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        |
| C16RL    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | C35SW    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        |
| C16SW    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | C37CC    | 2305-000407 | C-FILM,LEAD-PEF;470nF,5%,100V,TP,10 | 1    | SA  |        |
| C16YL    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | C3FL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
|          |             |                                     |      |     |        | C3YL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
|          |             |                                     |      |     |        | C4RL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
|          |             |                                     |      |     |        | C4SW     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No.        | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|-----------------|-------------|-------------------------------------|------|-----|--------|
| C4YR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR11            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C5CC     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR12            | 2003-000587 | R-METAL OXIDE(S);22ohm,5%,1W,AA,TP, | 1    | SA  |        |
| C5FL     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR13            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C5RL     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR14            | 2007-000082 | R-CHIP;3.3Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| C5YL     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR2             | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | FR3             | 2001-001165 | R-CARBON(S);560HM,5%,1/2W,AA,TP,2.4 | 1    | SA  |        |
| C5YR     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | FR4             | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C6CC     | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2 | 1    | SA  |        | FR5             | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| C6RR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR6             | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C6YR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | FR7             | 2007-000134 | R-CHIP;33Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C7CC     | 2401-002300 | C-AL;47#F,20%,50V,GP,TP,6.3x11,5mm  | 1    | SA  |        | FR8             | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | FR9             | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| C7FL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HC1             | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| C7RL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HC1L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| C7YL     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HC1R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| C7YR     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HC2             | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| C8CC     | 2203-006348 | C-CER,CHIP;1000nF,10%,25V,X5R,1608  | 1    | SA  |        | HC2L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| C8FL     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        | HC2R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| C8RL     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        | HC3L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| C8YL     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        | HC3R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| C8YR     | 2401-004106 | C-AL;680uF,20%,50V,-BK,12.5 x 35,5  | 1    | SA  |        | HC6L            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        |
| C9SW     | 2203-001634 | C-CER,CHIP;33nF,10%,50V,X7R,1608    | 1    | SA  |        | HC6R            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| EL1      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | HC7L            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        |
| EL2      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | HC7R            | 2203-000998 | C-CER,CHIP;0.047nF,5%,50V,C0G,1608  | 1    | SA  |        |
| EL4      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | HC8L            | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| EMC10    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HC8R            | 2401-000042 | C-AL;100uF,20%,16V,GP,TP,6.3x7,5    | 1    | SA  |        |
| EMC11    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HC9L            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| EMC12    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HC9R            | 2203-000236 | C-CER,CHIP;0.1nF,5%,50V,C0G,1608    | 1    | SA  |        |
| EMC13    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HEATSINK        | AH62-00180A | HEAT SINK;HT-Z410/510,AL,T3,W122,L3 | 1    | SA  |        |
| EMC14    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HIC             | 1201-000163 | IC-OP AMP;4560,SOP,8P,173MIL,DUAL,1 | 1    | SA  |        |
| EMC17    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | HL1L            | 2703-000404 | INDUCTOR-SMD;220uH,10%,3225         | 1    | SA  |        |
| EMC19    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | HL1R            | 2703-000404 | INDUCTOR-SMD;220uH,10%,3225         | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| EMC20    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | HOLDER_HEATSINK | AH61-02526A | HOLDER-IC;HT-Z210,ABS,T0.9,W150,-,- | 1    | SA  |        |
| EMC21    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HR1             | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| EMC22    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HR10L           | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| EMC5     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HR10R           | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| EMC6     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HR2             | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| EMC9     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | HR2L            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| EMCFL    | 2203-000257 | C-CER,CHIP;10nF,10%,50V,X7R,TP,1608 | 1    | SA  |        | HR2R            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| EMR3     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        | HR4L            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| EMR4     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        | HR4R            | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| EMR5     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        | HR5L            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| EMR6     | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        | HR5R            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| FC2      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | HR6L            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| FC3      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | HR6R            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| FC4      | 2401-001975 | C-AL;47uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | HR7L            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| FC5      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | HR7R            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| FC6      | 2401-000651 | C-AL;2.2uF,20%,50V,GP,TP,4x7,5      | 1    | SA  |        | HR8L            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| FD1      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | HR8R            | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| FD2      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | HR9L            | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| FJ1      | 3711-000820 | HEADER-BOARD TO CABLE;BOX,2P,1R,2.5 | 1    | SA  |        | HR9R            | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| FL1      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | IC1CW           | 1201-002673 | IC-AUDIO AMP;TAS5352DDV,HTSSOP,44P, | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| FL2      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | IC1L            | 1201-002673 | IC-AUDIO AMP;TAS5352DDV,HTSSOP,44P, | 1    | SA  |        |
| FL3      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        | IC1Y            | 1201-002673 | IC-AUDIO AMP;TAS5352DDV,HTSSOP,44P, | 1    | SA  |        |
| FQ1      | 0501-000422 | TR-SMALL SIGNAL;KTA1273,PNP,-30V,-3 | 1    | SA  |        | J3              | AH39-00940A | WIRE HARNESS;HT-X50,-,-,11,50mm,BLA | 1    | SA  |        |
| FQ2      | 0501-000341 | TR-SMALL SIGNAL;KSC1623-L,NPN,200mW | 1    | SA  |        | J7              | 3708-001086 | CONNECTOR-FPC/FFC/PIC;28P,1.25MM,ST | 1    | SA  |        |
| FQ3      | 0501-000422 | TR-SMALL SIGNAL;KTA1273,PNP,-30V,-3 | 1    | SA  |        | L1FL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        |
|          |             |                                     |      |     |        |                 |             |                                     |      |     |        |
| FQ4      | 0504-000128 | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-  | 1    | SA  |        | L1RL            | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        |
| FR1      | 2001-000022 | R-CARBON(S);33OHM,5%,1/2W,AA,TP,2.4 | 1    | SA  |        |                 |             |                                     |      |     |        |
| FR10     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |                 |             |                                     |      |     |        |

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No.      | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|---------------|-------------|-------------------------------------|------|-----|--------|
| L1SW     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R16CC         | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| L1YL     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R17CC         | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| L1YR     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R1RL          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2FL     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R1SW          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
|          |             |                                     |      |     |        | R1YR          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2RL     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        |               |             |                                     |      |     |        |
| L2SW     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R20CC         | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2YL     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R21CC         | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L2YR     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R22CC         | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| L3CC     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        | R22SW         | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
|          |             |                                     |      |     |        | R2FL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| L4CC     | AH27-00064A | COIL FILTER;MAX-DT99,10UH,45mOHM,2, | 1    | SA  |        |               |             |                                     |      |     |        |
| MR32     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R2RL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| MR33     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R2SW          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| MR34     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R2YL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| MR35     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R2YR          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
|          |             |                                     |      |     |        | R32SW         | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR36     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |               |             |                                     |      |     |        |
| MR37     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R33SW         | 2007-000695 | R-CHIP;3.3ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| MR38     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R3FL          | 2007-000034 | R-CHIP;1OHM,5%,1/4W,TP,3216         | 1    | SA  |        |
| MR39     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R3RL          | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| NC6      | 2401-001020 | C-AL;3.3UF,20%,50V,GP,TP,4X7,5      | 1    | SA  |        | R3SW          | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | R3YL          | 2007-000034 | R-CHIP;1OHM,5%,1/4W,TP,3216         | 1    | SA  |        |
| NC7      | 2401-000048 | C-AL;47uF,20%,25V,GP,TP,5x11,5      | 1    | SA  |        |               |             |                                     |      |     |        |
| NC8      | 2401-001164 | C-AL;33uF,20%,16V,GP,TP,5x11mm,5mm  | 1    | SA  |        | R3YR          | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ND3      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | R46           | 2007-000253 | R-CHIP;1.5ohm,5%,1/4W,TP,3216       | 1    | SA  |        |
| ND4      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | R4CC          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ND5      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | R4FL          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |             |                                     |      |     |        | R4RL          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| NIC1     | 1201-000163 | IC-OP AMP;4560,SOP,8P,173MIL,DUAL,1 | 1    | SA  |        |               |             |                                     |      |     |        |
| NPD3     | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO | 1    | SA  |        | R4Y           | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| NQ3      | 0501-000010 | TR-SMALL SIGNAL;KSC1008,NPN,800mW,T | 1    | SA  |        | R4YR          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| NR1      | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R5FL          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| NR11     | 2007-000052 | R-CHIP;10Kohm,1%,1/10W,TP,1608      | 1    | SA  |        | R5RL          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
|          |             |                                     |      |     |        | R5SW          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| NR12     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |               |             |                                     |      |     |        |
| NR13     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | R5YL          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| NR14     | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | R5YR          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| NR15     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        | R6FL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| NR16     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R6RL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
|          |             |                                     |      |     |        | R6SW          | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| NR17     | 2007-000125 | R-CHIP;3.9Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |               |             |                                     |      |     |        |
| NR18     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R6YL          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| NR19     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | R6YR          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
| NR2      | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R7CC          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| OP510H   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | R8CC          | 2007-000034 | R-CHIP;1OHM,5%,1/4W,TP,3216         | 1    | SA  |        |
|          |             |                                     |      |     |        | R8FL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| OR410C   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |               |             |                                     |      |     |        |
| OR410D   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | R8RL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| OR510A   | 2007-007625 | R-CHIP;0OHM,5%,1W,TP,6432           | 1    | SA  |        | R8YL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| OR510B   | 2007-007625 | R-CHIP;0OHM,5%,1W,TP,6432           | 1    | SA  |        | R8YR          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| OR510E   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | R9CC          | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        |
|          |             |                                     |      |     |        | R9FL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| OR510F   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |               |             |                                     |      |     |        |
| OR510G   | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | R9RL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| PCBAMP   | AH41-01098B | PCB-AMP;HT-Z410,EPOXY,2,-,330*197   | 0.5  | SNA |        | R9YL          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R11CC    | 2007-000312 | R-CHIP;10ohm,5%,1/4W,TP,3216        | 1    | SA  |        | R9YR          | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R11RL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        | RESQ1         | 1203-003526 | IC-VOL. DETECTOR;KIA7029AP,TO-92,3P | 1    | SA  |        |
|          |             |                                     |      |     |        | SCREW_TAPTITE | 6003-000276 | SCREW-TAPTITE;BH,+,B,M3,L10,ZPC(W   | 4    | SNA |        |
| R11SW    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |               |             |                                     |      |     |        |
| R11YL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        | SDR1          | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| R11YR    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        | SHIELD_SPK    | AH63-01265A | SHIELD-SHIELD-SPK;HT-Q40,PBS,0.3T,- | 2    | SNA |        |
| R13RL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        | SPK1          | 3716-001132 | TERMINAL-BLOCK;SOLDER,4P,-,-,-      | 1    | SA  |        |
| R13SW    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        | SPK2          | 3716-001131 | TERMINAL-BLOCK;SOLDER,6P,-,-,-      | 1    | SA  |        |
|          |             |                                     |      |     |        | UAC1          | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        |
| R13YL    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        |               |             |                                     |      |     |        |
| R13YR    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        | UAC11         | 2401-001355 | C-AL;470uF,20%,10V,GP,TP,8x11.5mm,5 | 1    | SA  |        |
| R14SW    | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        | UAC12         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R150     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | UAC13         | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |
| R15SW    | 2007-000463 | R-CHIP;18ohm,5%,1/10W,TP,1608       | 1    | SA  |        |               |             |                                     |      |     |        |

## Exploded View & Part List

| Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark | Loc. No. | Part No.    | Description;Specification            | Q'ty  | SNA | Remark |
|----------|-------------|-------------------------------------|------|-----|--------|----------|-------------|--------------------------------------|-------|-----|--------|
| UAC14    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                      |       |     |        |
| UAC15    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          | AH92-02783A | ASSY PCB-FRONT;HT-Z410,FRONT ASSY    | 1     | SA  |        |
| UAC16    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | ACON1    | AH39-00941A | WIRE HARNESS;HT-X50,-,-,3,500mm+-+10 | 1     | SA  |        |
| UAC17    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | AGB1     | 3301-001495 | BEAD-SMD;120ohm,2012,2500mA,TP,115o  | 1     | SA  |        |
| UAC18    | 2401-001355 | C-AL;470uF,20%,10V,GP,TP,8x11.5mm,5 | 1    | SA  |        | AGC1     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608    | 1     | SA  |        |
| UAC19    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | AJACK1   | 3722-001588 | JACK-PHONE;7P,3.6PI,AG,BLK,-         | 1     | SA  |        |
| UAC2     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | BRK      | AH63-01333A | SHIELD-JACK;HT-X51H,SPTE,T0.3,-,-,-  | 1     | SA  |        |
| UAC20    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C1       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608      | 1     | SA  |        |
| UAC21    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C2       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608      | 1     | SA  |        |
| UAC22    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C3       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608      | 1     | SA  |        |
| UAC23    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C4       | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608      | 1     | SA  |        |
| UAC24    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | C7       | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16  | 1     | SA  |        |
| UAC25    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C8       | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608   | 1     | SA  |        |
| UAC26    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | C9       | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608   | 1     | SA  |        |
| UAC27    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | CN24     | 3708-002312 | CONNECTOR-FPC/FFC/PIC;24P,1.25mm,ST  | 1     | SA  |        |
| UAC28    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | CON6A    | 3711-005875 | HEADER-BOARD TO CABLE;NOWALL,10P,2R  | 1     | SA  |        |
| UAC29    | 2401-001355 | C-AL;470uF,20%,10V,GP,TP,8x11.5mm,5 | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | CON6B    | 3710-000209 | SOCKET-BOARD TO BOARD;5P,1R,2mm,STR  | 1     | SA  |        |
| UAC3     | 2401-002042 | C-AL;220uF,20%,10V,GP,TP,6.3x11,5   | 1    | SA  |        | CON6C    | 3710-000209 | SOCKET-BOARD TO BOARD;5P,1R,2mm,STR  | 1     | SA  |        |
| UAC30    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | CONU1    | AH39-00942A | WIRE HARNESS;HT-X50,-,-,4,390mm+-+10 | 1     | SA  |        |
| UAC31    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | D4       | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        |
| UAC32    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | ESDF4    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-      | 1     | SA  |        |
| UAC33    | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | ESDF5    | 0406-001128 | DIODE-TVS;MLVS-0603-E08,50V,-,-      | 1     | SA  |        |
| UAC34    | 2401-001092 | C-AL;330uF,20%,10V,GP,-,8x11.5,2.5m | 1    | SA  |        | FD1      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        |
| UAC35    | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        | FD2      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        |
| UAC36    | 2203-000626 | C-CER,CHIP;0.022nF,5%,50V,C0G,1608  | 1    | SA  |        | FD3      | 0401-001090 | DIODE-SWITCHING;1SS355,80V,100MA,SO  | 1     | SA  |        |
| UAC4     | 2401-000243 | C-AL;100uF,20%,10V,GP,TP,6.3x5,5    | 1    | SA  |        | FL1      | AH07-00224A | VF DISPLAY;11SM72T,HT-Z410,135.2X18  | 1     | SA  |        |
| UAC5     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | HOLD VFD | AH61-02520A | HOLDER-VFD;HT-Z410/510,ABS,T1.5,W13  | 1     | SA  |        |
| UAC6     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | L1       | 2703-000397 | INDUCTOR-SMD;33uH,10%,2520           | 1     | SA  |        |
| UAC7     | 2401-000414 | C-AL;10uF,20%,16V,GP,TP,4x7,5       | 1    | SA  |        | L2       | 2703-000397 | INDUCTOR-SMD;33uH,10%,2520           | 1     | SA  |        |
| UAC8     | 2401-000487 | C-AL;10uF,20%,50V,GP,TP,6.3x5mm,5   | 1    | SA  |        | PCBFRONT | AH41-01096A | PCB-FRONT;HT-Z410,PENNOL,2,0,1.6T,3  | 0.333 | SNA |        |
| UAC9     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608   | 1    | SA  |        | R11      | 2007-000121 | R-CHIP;820ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| UAR1     | 2007-000116 | R-CHIP;120ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | R51      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| UAR12    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | R52      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| UAR14    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R53      | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| UAR15    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R7       | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| UAR16    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | R8       | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608       | 1     | SA  |        |
| UAR17    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | REMO     | 0609-001189 | MODULE REMOCON;HORIZONTAL,16.4MM,TR  | 1     | SA  |        |
| UAR18    | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | SR1      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1     | SA  |        |
| UAR2     | 2007-000072 | R-CHIP;47ohm,5%,1/10W,TP,1608       | 1    | SA  |        | SR2      | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608         | 1     | SA  |        |
| UAR22    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | SW1      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR25    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        | SW10     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR26    | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | SW11     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR3     | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608       | 1    | SA  |        | SW12     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR33    | 2007-002425 | R-CHIP;1ohm,5%,1/10W,TP,1608        | 1    | SA  |        | SW13     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR37    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | SW14     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR44    | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        | SW15     | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR46    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | SW2      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR48    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | SW3      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR5     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | SW4      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR50    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | SW5      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR52    | 2007-000074 | R-CHIP;100ohm,5%,1/10W,TP,1608      | 1    | SA  |        | SW8      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR6     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | SW9      | 3404-000165 | SWITCH-TACT;12V,50mA,160gf,6x6mm,SP  | 1     | SA  |        |
| UAR7     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | USBJ     | 3722-002313 | JACK-USB;4P/1C,AU30U,BLK,STRAIGHT,A  | 1     | SA  |        |
| UAR9     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        | USC1     | 2203-005249 | C-CER,CHIP;100nF,10%,50V,X7R,1608    | 1     | SA  |        |
| UPIC1    | 1204-002627 | IC-MODULATOR;PS9829B,LQFP,100P,14x1 | 1    | SA  |        | USC2     | 2401-001492 | C-AL;47uF,20%,16V,GP,-,5x7mm,2.5     | 1     | SA  |        |
| UPIC2    | AH14-10004R | IC-CMOS LOGIC;74HCU04,-,SOP,14P,-,- | 1    | SA  |        | VOL1     | 3406-001047 | SWITCH-ROTARY;5V DC,0.5mA,-,12mm     | 1     | SA  |        |
| UPX1     | 2801-004354 | CRYSTAL-UNIT;12.288MHZ,30PPM,ATS-49 | 1    | SA  |        |          |             |                                      |       |     |        |
|          |             |                                     |      |     |        | VR1      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |
|          | AH99-10011N | ASSY PCB-AMP,m;HT-Z510,AMP ASSY     | 1    | SNA |        | VR2      | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608       | 1     | SA  |        |



| Loc. No. | Part No.           | Description;Specification                  | Q'ty     | SNA       | Remark | Loc. No. | Part No.    | Description;Specification           | Q'ty | SNA | Remark |
|----------|--------------------|--------------------------------------------|----------|-----------|--------|----------|-------------|-------------------------------------|------|-----|--------|
| ZC100    | 2401-000243        | C-AL;100uF,20%,10V,GP,TP,6.3x5,5           | 1        | SA        |        | RC1      | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| ZC101    | 2203-005249        | C-CER,CHIP;100nF,10%,50V,X7R,1608          | 1        | SA        |        | RC10     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| ZC102    | 2203-005249        | C-CER,CHIP;100nF,10%,50V,X7R,1608          | 1        | SA        |        | RC13     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
|          |                    |                                            |          |           |        | RC14     | 2402-001096 | C-AL,SMD;220UF,20%,16V,GP,TP,6.6X6. | 1    | SA  |        |
| ZC103    | 2203-005249        | C-CER,CHIP;100nF,10%,50V,X7R,1608          | 1        | SA        |        |          |             |                                     |      |     |        |
| ZC2      | 2203-005249        | C-CER,CHIP;100nF,10%,50V,X7R,1608          | 1        | SA        |        | RC16     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| ZC4      | 2401-001492        | C-AL;47uF,20%,16V,GP,-;5x7mm,2.5           | 1        | SA        |        | RC23     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |
| ZIC1     | 1003-001541        | IC-VFD;PT6315,LQFP,44P,10X10MM,-,-4        | 1        | SA        |        | RC24     | 2203-000440 | C-CER,CHIP;1nF,10%,50V,X7R,1608     | 1    | SA  |        |
| ZJACK1   | 3722-001588        | JACK-PHONE;7P,3.6PI,AG,BLK,-               | 1        | SA        |        | RC25     | 2402-001042 | C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6. | 1    | SA  |        |
|          |                    |                                            |          |           |        | RC26     | 2402-001042 | C-AL,SMD;100uF,20%,16V,GP,TP,6.6x6. | 1    | SA  |        |
| ZLD1     | 0601-002482        | LED;ROUND,RED/BLUE,5.40x9.50mm,R=6         | 1        | SA        |        |          |             |                                     |      |     |        |
| ZQ1      | 0501-000002        | TR-SMALL SIGNAL;KSA812,PNP,150MW,SO        | 1        | SA        |        | RC33     | 2203-005148 | C-CER,CHIP;100nF,10%,16V,X7R,TP,160 | 1    | SA  |        |
| ZQ2      | 0504-000128        | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-         | 1        | SA        |        | RC35     | 2402-000175 | C-AL,SMD;470uF,20%,6.3V,-,-8.3x8.3  | 1    | SA  |        |
| ZQ3      | 0504-000128        | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-         | 1        | SA        |        | RC58     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| ZQ4      | 0501-000002        | TR-SMALL SIGNAL;KSA812,PNP,150MW,SO        | 1        | SA        |        | RC59     | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
|          |                    |                                            |          |           |        | RC6      | 2203-000189 | C-CER,CHIP;100nF,+80-20%,25V,Y5V,16 | 1    | SA  |        |
| ZR1      | 2007-000122        | R-CHIP;1.2Kohm,5%,1/10W,TP,1608            | 1        | SA        |        |          |             |                                     |      |     |        |
| ZR10     | 2007-000079        | R-CHIP;1.8Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RC9      | 2402-001096 | C-AL,SMD;220UF,20%,16V,GP,TP,6.6X6. | 1    | SA  |        |
| ZR100    | 2007-000101        | R-CHIP;82Kohm,5%,1/10W,TP,1608             | 1        | SA        |        | RCN1     | 3708-001808 | CONNECTOR-FPC/FFC/PIC;24P,0.5MM,SMD | 1    | SA  |        |
| ZR11     | 2007-000074        | R-CHIP;100ohm,5%,1/10W,TP,1608             | 1        | SA        |        | RCN2     | 3710-002223 | SOCKET-BOARD TO CABLE;30P,2R,2mm,SM | 1    | SA  |        |
| ZR12     | 2007-000094        | R-CHIP;22Kohm,5%,1/10W,TP,1608             | 1        | SA        |        | RD2      | 0407-000116 | DIODE-ARRAY;KDS181, DAP202K,80V,100 | 1    | SA  |        |
|          |                    |                                            |          |           |        | RL1      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| ZR13     | 2007-000084        | R-CHIP;4.7Kohm,5%,1/10W,TP,1608            | 1        | SA        |        |          |             |                                     |      |     |        |
| ZR14     | 2007-000079        | R-CHIP;1.8Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RL2      | 3301-001069 | BEAD-SMD;120ohm,1.6x0.8x0.8mm,200mA | 1    | SA  |        |
| ZR15     | 2007-000094        | R-CHIP;22Kohm,5%,1/10W,TP,1608             | 1        | SA        |        | RR10     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| ZR16     | 2007-000084        | R-CHIP;4.7Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RR100    | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ZR17     | 2007-000070        | R-CHIP;0ohm,5%,1/10W,TP,1608               | 1        | SA        |        | RR11     | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR12     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ZR18     | 2007-000121        | R-CHIP;820ohm,5%,1/10W,TP,1608             | 1        | SA        |        |          |             |                                     |      |     |        |
| ZR19     | 2007-000124        | R-CHIP;2.2Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RR13     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| ZR2      | 2007-000090        | R-CHIP;10Kohm,5%,1/10W,TP,1608             | 1        | SA        |        | RR15     | 2007-000087 | R-CHIP;6.8Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| ZR20     | 2007-000078        | R-CHIP;1Kohm,5%,1/10W,TP,1608              | 1        | SA        |        | RR19     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ZR25     | 2007-000122        | R-CHIP;1.2Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RR23     | 2007-000124 | R-CHIP;2.2Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR24     | 2007-000458 | R-CHIP;18Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ZR28     | 2007-000123        | R-CHIP;1.5Kohm,5%,1/10W,TP,1608            | 1        | SA        |        |          |             |                                     |      |     |        |
| ZR2A     | 2007-000451        | R-CHIP;180ohm,5%,1/4W,TP,3216              | 1        | SA        |        | RR26     | 2007-000084 | R-CHIP;4.7Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
| ZR3      | 2007-000090        | R-CHIP;10Kohm,5%,1/10W,TP,1608             | 1        | SA        |        | RR27     | 2007-000109 | R-CHIP;1Mohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ZR4      | 2007-000074        | R-CHIP;100ohm,5%,1/10W,TP,1608             | 1        | SA        |        | RR28     | 2007-000094 | R-CHIP;22Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ZR5      | 2007-000078        | R-CHIP;1Kohm,5%,1/10W,TP,1608              | 1        | SA        |        | RR29     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR30     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| ZR6      | 2007-000122        | R-CHIP;1.2Kohm,5%,1/10W,TP,1608            | 1        | SA        |        |          |             |                                     |      |     |        |
| ZR7      | 2007-000122        | R-CHIP;1.2Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RR33     | 2007-000120 | R-CHIP;680ohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| ZR8      | 2007-000123        | R-CHIP;1.5Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RR34     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| ZR9      | 2007-000074        | R-CHIP;100ohm,5%,1/10W,TP,1608             | 1        | SA        |        | RR35     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          | AH97-02596A        | ASSY-KITTING FRONT;HT-Z510/XAA,-           | 1        | SNA       |        | RR36     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR37     | 2007-000130 | R-CHIP;39Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          | 3301-000132        | CORE-FERRITE;AC,28.8x19.3x7.5mm,140        | 1        | SA        |        |          |             |                                     |      |     |        |
|          | 3809-001925        | CABLE-FLAT;30V,80C,250mm,24P,1.25mm        | 1        | SA        |        | RR41     | 2007-000092 | R-CHIP;15Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          | AH99-10011J        | ASSY PCB-FRONT,m;HT-Z410,FRONT ASSY        | 1        | SNA       |        | RR44     | 2007-000102 | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR51     | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR54     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR57     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          | <b>AH97-02597A</b> | <b>ASSY DVD DECK-5DVD;XAA,CMS-S75,SDM-</b> | <b>1</b> | <b>SA</b> |        |          |             |                                     |      |     |        |
| DC14     | 2203-005148        | C-CER,CHIP;100nF,10%,16V,X7R,TP,160        | 1        | SA        |        |          |             |                                     |      |     |        |
| DR15     | 2007-000097        | R-CHIP;47Kohm,5%,1/10W,TP,1608             | 1        | SA        |        | RR58     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| DR51     | 2007-000074        | R-CHIP;100ohm,5%,1/10W,TP,1608             | 1        | SA        |        | RR59     | 2007-000071 | R-CHIP;22ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| IC11     | 1003-001978        | IC-MOTOR DRIVER;AM5766,HSOP28H,28P,        | 1        | SA        |        | RR6      | 2007-000113 | R-CHIP;33ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR60     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| IC13     | 1201-001842        | IC-OP AMP;TL3472CD,SO,TP,8P,-,DUAL,        | 1        | SA        |        | RR61     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| MJ4      | 3708-001878        | CONNECTOR-FPC/FFC/PIC;6P,1MM,SMD-A,        | 1        | SA        |        |          |             |                                     |      |     |        |
| MJ4_1    | 3711-002807        | HEADER-BOARD TO CABLE;BOX,6P,1R,2mm        | 1        | SA        |        | RR62     | 2007-000090 | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| PCB      | AH41-01097A        | PCB-RF;HT-Z410,PENNOL,2.0,1.6T,247*        | 0.167    | SNA       |        | RR63     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
| Q1       | 0504-000128        | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-         | 1        | SA        |        | RR64     | 2007-000097 | R-CHIP;47Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR65     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| Q2       | 0504-000128        | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-         | 1        | SA        |        | RR66     | 2007-000078 | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| Q3       | 0504-000128        | TR-DIGITAL;-NPN,200MW,22K/22K,SOT-         | 1        | SA        |        |          |             |                                     |      |     |        |
| Q4       | 0501-000632        | TR-SMALL SIGNAL;2SB1197K,PNP,200mW,        | 1        | SA        |        | RR67     | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| Q5       | 0501-000632        | TR-SMALL SIGNAL;2SB1197K,PNP,200mW,        | 1        | SA        |        | RR68     | 2007-000309 | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1    | SA  |        |
| R101     | 2007-000082        | R-CHIP;3.3Kohm,5%,1/10W,TP,1608            | 1        | SA        |        | RR7      | 2007-000098 | R-CHIP;56Kohm,5%,1/10W,TP,1608      | 1    | SA  |        |
|          |                    |                                            |          |           |        | RR70     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |
| RB1      | 3301-001495        | BEAD-SMD;120ohm,2012,2500mA,TP,115o        | 1        | SA        |        | RR71     | 2007-000070 | R-CHIP;0ohm,5%,1/10W,TP,1608        | 1    | SA  |        |

## Exploded View &amp; Part List

| Loc. No. | Part No.           | Description;Specification           | Q'ty     | SNA        | Remark | Loc. No. | Part No. | Description;Specification | Q'ty | SNA | Remark |
|----------|--------------------|-------------------------------------|----------|------------|--------|----------|----------|---------------------------|------|-----|--------|
| RR8      | 2007-000098        | R-CHIP;56Kohm,5%,1/10W,TP,1608      | 1        | SA         |        |          |          |                           |      |     |        |
| RR9      | 2007-000090        | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1        | SA         |        |          |          |                           |      |     |        |
| RR92     | 2007-000102        | R-CHIP;100Kohm,5%,1/10W,TP,1608     | 1        | SA         |        |          |          |                           |      |     |        |
| RR96     | 2007-000078        | R-CHIP;1Kohm,5%,1/10W,TP,1608       | 1        | SA         |        |          |          |                           |      |     |        |
| RR97     | 2007-000309        | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1        | SA         |        |          |          |                           |      |     |        |
| RR98     | 2007-000090        | R-CHIP;10Kohm,5%,1/10W,TP,1608      | 1        | SA         |        |          |          |                           |      |     |        |
| RR99     | 2007-000309        | R-CHIP;10ohm,5%,1/10W,TP,1608       | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH92-02785A        | ASSY PCB-RF;HT-Z410,RF ASSY         | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH99-10011L        | ASSY PCB-RF,m;HT-Z410,RF ASSY       | 1        | SNA        |        |          |          |                           |      |     |        |
|          | <b>AH97-02731K</b> | <b>ASSY MACHINERY;XAA,HT-TZ512</b>  | <b>1</b> | <b>SNA</b> |        |          |          |                           |      |     |        |
|          | AH68-02079C        | HIC-RATING;SWA-4000,XAA,SLIVER PET, | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH68-50267F        | LABEL-CONTROL;ART PAPER,T0.1,-,-,WH | 1        | SNA        |        |          |          |                           |      |     |        |
|          | AH69-02187B        | CUSHION-LEFT;SWA-4000,EPS,-,W211,L5 | 1        | SNA        |        |          |          |                           |      |     |        |
|          | AH69-02188B        | CUSHION-RIGHT,-,EPS,-,W211,L513,62. | 1        | SNA        |        |          |          |                           |      |     |        |
|          | AH81-02137A        | A/S PART-SPEAKER WIRE;SWA-3000,-,-, | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177B        | A/S-CHASSIS MAIN;SWA-4000,-,-,-,-,- | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177C        | A/S-MOTOR FAN;SWA-4000,-,-,-,-,-    | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177E        | A/S-CABINET REAR;SWA-4000,-,-,-,-,- | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177G        | A/S-ASSY STAND;SWA-4000,-,-,-,-,-   | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177J        | A/S-TX CARD;SWA-4000,-,-,-,-,-      | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177K        | A/S-AMP PCB ASSY;SWA-4000,-,-,-,-,- | 1        | SA         |        |          |          |                           |      |     |        |
|          | 1201-002236        | IC-AUDIO AMP;TAS5152,PSOP3,36P,15.9 | 1        | SA         |        |          |          |                           |      |     |        |
|          | 1204-002627        | IC-MODULATOR;PS9829B,LQFP,100P,14x1 | 1        | SA         |        |          |          |                           |      |     |        |
|          | 2401-000048        | C-AL;47uF,20%,25V,GP,TP,5x11,5      | 1        | SA         |        |          |          |                           |      |     |        |
|          | 2401-003036        | C-AL;100uF,20%,16V,GP,TP,5X11mm,5mm | 1        | SA         |        |          |          |                           |      |     |        |
|          | 2401-003069        | C-AL;470uF,20%,50V,WT,TP,10x20mm,5  | 1        | SA         |        |          |          |                           |      |     |        |
|          | 3404-001278        | SWITCH-TACT;12V DC,50mA,160gf,7.5x1 | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH62-00146A        | HEAT SINK-AMP;SWA-2000,AL 6063,-,4T | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-03205A        | C-AL;220uF/16V,6.3*11mm,-40 to +105 | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177L        | A/S-SMPS PCB;SWA-4000,-,-,-,-,-     | 1        | SA         |        |          |          |                           |      |     |        |
|          | 0402-000006        | DIODE-RECTIFIER;1N4007GP,1KV,1A,DO- | 1        | SNA        |        |          |          |                           |      |     |        |
|          | 0402-000012        | DIODE-RECTIFIER;UF4007,1KV,1A,DO-41 | 1        | SA         |        |          |          |                           |      |     |        |
|          | 1203-000242        | IC-POS.FIXED REG.;7812,TO-220,3P,-  | 1        | SA         |        |          |          |                           |      |     |        |
|          | 1405-000001        | VARIATOR;470V,1250A,14x7.5mm,TP     | 1        | SA         |        |          |          |                           |      |     |        |
|          | 2401-003850        | C-AL;1000UF,20%,50V,WT,TP,12.5 X 25 | 1        | SA         |        |          |          |                           |      |     |        |
|          | 3711-000203        | HEADER-BOARD TO CABLE;1WALL,2P/3P,1 | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02520A        | DIODE-FAST RECOVERY;1N4937,600V,1A, | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02521A        | DIODE-SWITCHING;1N4148,500mW,DO-35, | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02592A        | DIODE-SUPER FAST RECTIFIERS;SFF1606 | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02634A        | DIODE-BRLDGE RECTFLERS;TS4B05G,600  | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02635A        | DIODE-ZENER;1N5242B,500mW,12V,DO-35 | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02662A        | C-AL;220uF,25V,8*12mm,-40 to +105C, | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02665A        | C-AL;4.7uF,50V,5*11mm,-40to +105C,- | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02667A        | C-AL;2200uF,50V,16*35mm,-40 to +105 | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02763A        | C-AL;33uF,50V,6.3*11mm,-40 to +85C, | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-02816A        | C-AL;1uF,50V,5*11mm,-40 to +85C,-   | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-03496A        | C-AL;470uF,10V,6.3X11mm,-,-,-,-     | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177M        | A/S-RX PCB;SWA-4000,-,-,-,-,-       | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177N        | A/S-LED PCB ASSY;SWA-4000,-,-,-,-,- | 1        | SA         |        |          |          |                           |      |     |        |
|          | 0601-001238        | LED;ROUND,RED,3.1mm,697nm,3.8x5.2m  | 1        | SA         |        |          |          |                           |      |     |        |
|          | 0601-001432        | LED;ROUND,BLUE,3mm,455nm            | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH81-04177P        | A/S-ASSY FRONT;SWA-4000,-,-,-,-,-X  | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH59-01907F        | REMOCON-ASSY;HT-Z510/EXP,SAMSUNG,23 | 1        | SA         |        |          |          |                           |      |     |        |
|          | AH69-02154C        | MASTER CARTON;HT-Z410,PAPER,T7,W515 | 1.02     | SNA        |        |          |          |                           |      |     |        |

**6. PCB Diagram**

6-1   Wiring Diagram..... 6-2

6-2   FRONT PCB Top..... 6-3

6-3   FRONT PCB Bottom ..... 6-5

6-4   AMP PCB Top ..... 6-6

6-5   AMP PCB Bottom..... 6-8

6-6   RF PCB Top ..... 6-9

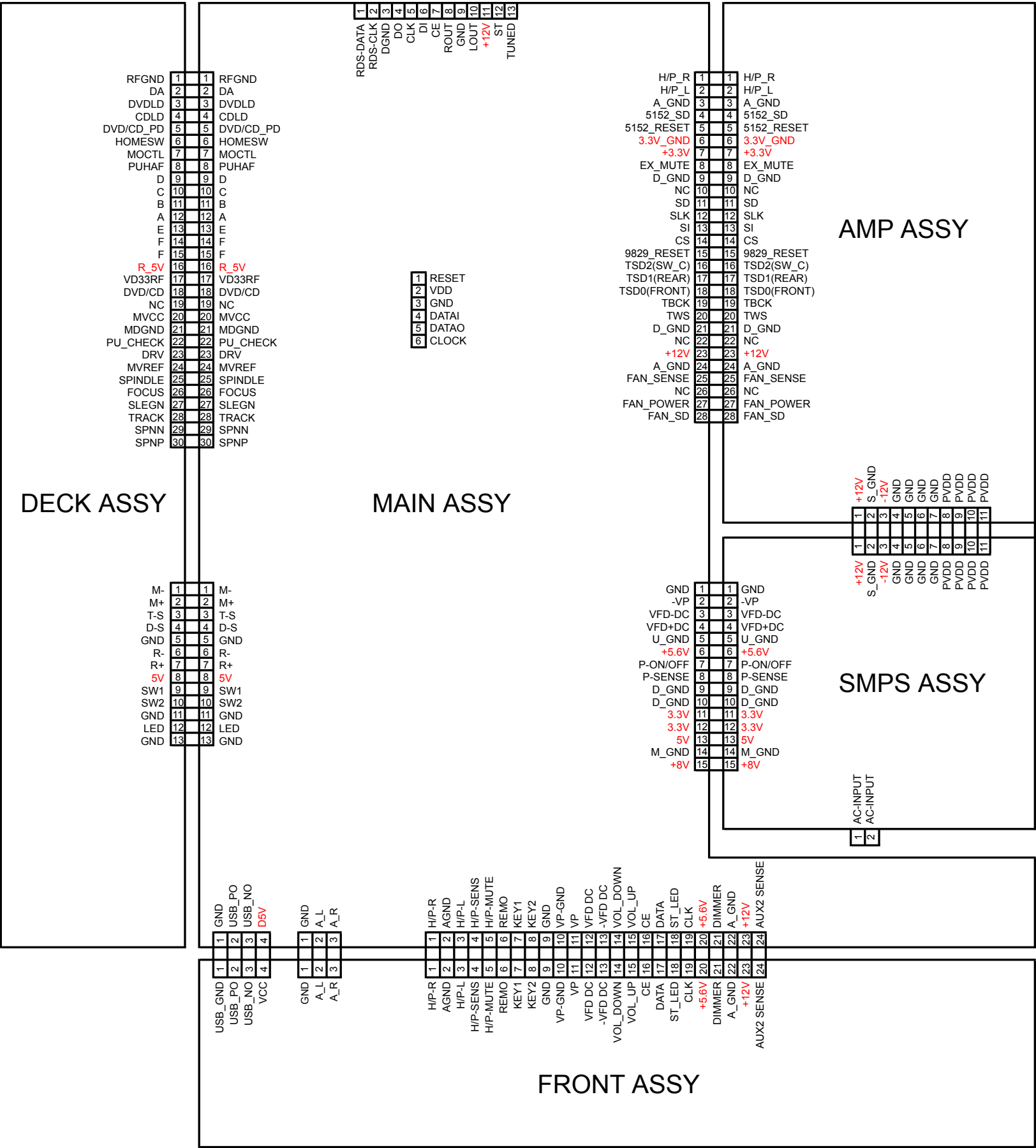
6-7   RF PCB Bottom ..... 6-11

6-8   MAIN PCB Top..... 6-12

6-9   MAIN PCB Bottom..... 6-15

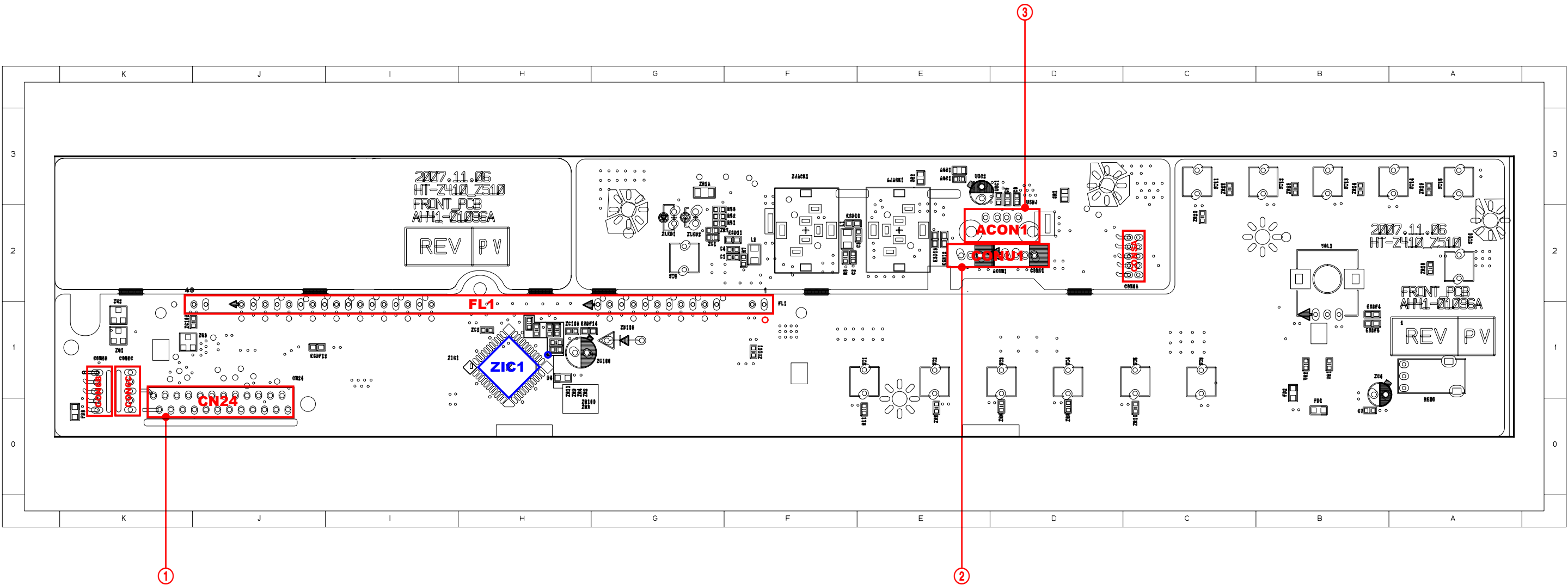
6-10 SMPS PCB Top..... 6-16

6-1 Wiring Diagram





6-2 FRONT PCB Top



6-2-1 Pin Connection

① CN24  
Front Control Connector

| Pin No. | Signal   |
|---------|----------|
| 1       | HP-R     |
| 2       | AGND     |
| 3       | HP-L     |
| 4       | HPSEN    |
| 5       | NC       |
| 6       | REMO     |
| 7       | KEY1     |
| 8       | KEY2     |
| 9       | GND      |
| 10      | VP_GND   |
| 11      | VP       |
| 12      | VFD DC   |
| 13      | -VFD DC  |
| 14      | VOL DOWN |
| 15      | VOL UP   |
| 16      | CE       |
| 17      | DATA     |
| 18      | ST-LED   |
| 19      | CLK      |
| 20      | 5.6V     |
| 21      | DIMMER   |
| 22      | NC       |
| 23      | +12V     |
| 24      | ASC_SENS |

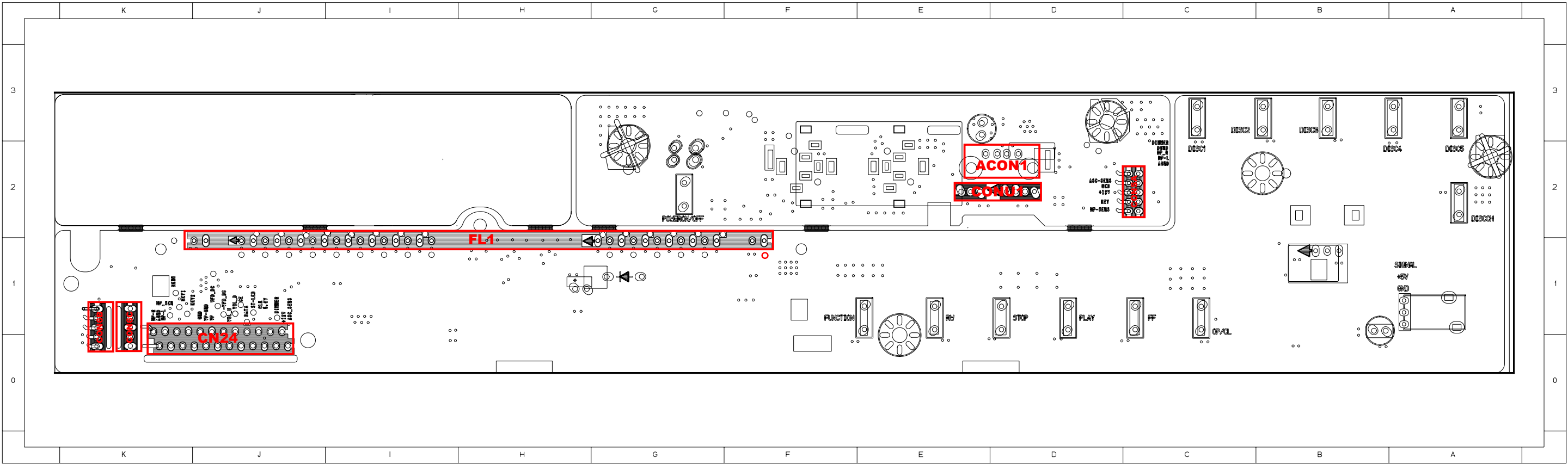
② CONU1  
USB Connector

| Pin No. | Signal  |
|---------|---------|
| 1       | VCC     |
| 2       | DATA-   |
| 3       | DATA+   |
| 4       | USB_GND |

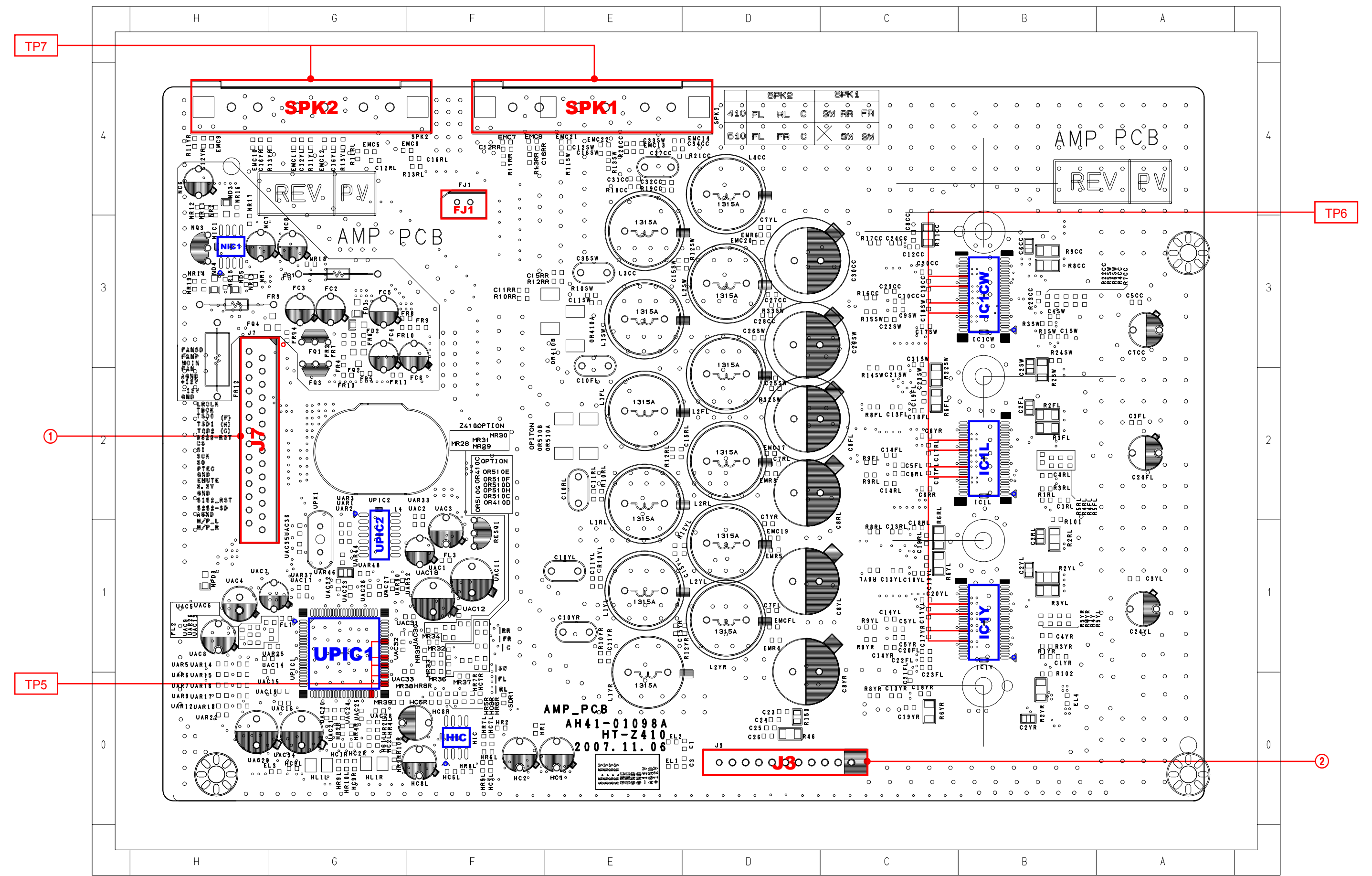
③ ACON1  
AUX1 Connector

| Pin No. | Signal |
|---------|--------|
| 1       | GND    |
| 2       | A_L    |
| 3       | A_R    |

6-3 FRONT PCB Bottom



6-4 AMP PCB Top



6-4-1 Pin Connection

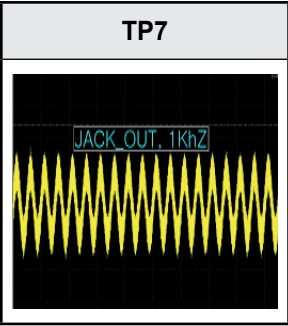
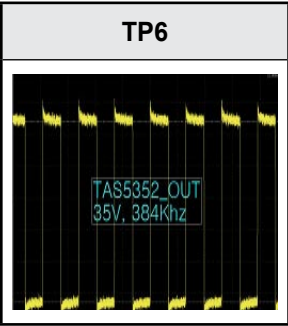
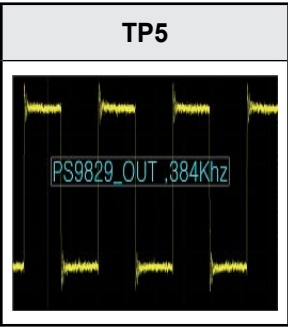
① J7  
AMP Signal Connector

| Pin No. | Signal      |
|---------|-------------|
| 1       | H/P_R       |
| 2       | H/P_L       |
| 3       | A_GND       |
| 4       | 5152_SD     |
| 5       | 5152_RESET  |
| 6       | 3.3V_GND    |
| 7       | +3.3V       |
| 8       | EX_MUTE     |
| 9       | D_GND       |
| 10      | NC          |
| 11      | SD          |
| 12      | SLK         |
| 13      | SI          |
| 14      | CS          |
| 15      | 9829_RESET  |
| 16      | TSD2(SW_C)  |
| 17      | TSD1(REAR)  |
| 18      | TSD0(FRONT) |
| 19      | TBCK        |
| 20      | TWS         |
| 21      | D_GND       |
| 22      | NC          |
| 23      | +12V        |
| 24      | A_GND       |
| 25      | FAN_SENSE   |
| 26      | NC          |
| 27      | FAN_POWER   |
| 28      | FAN_SD      |

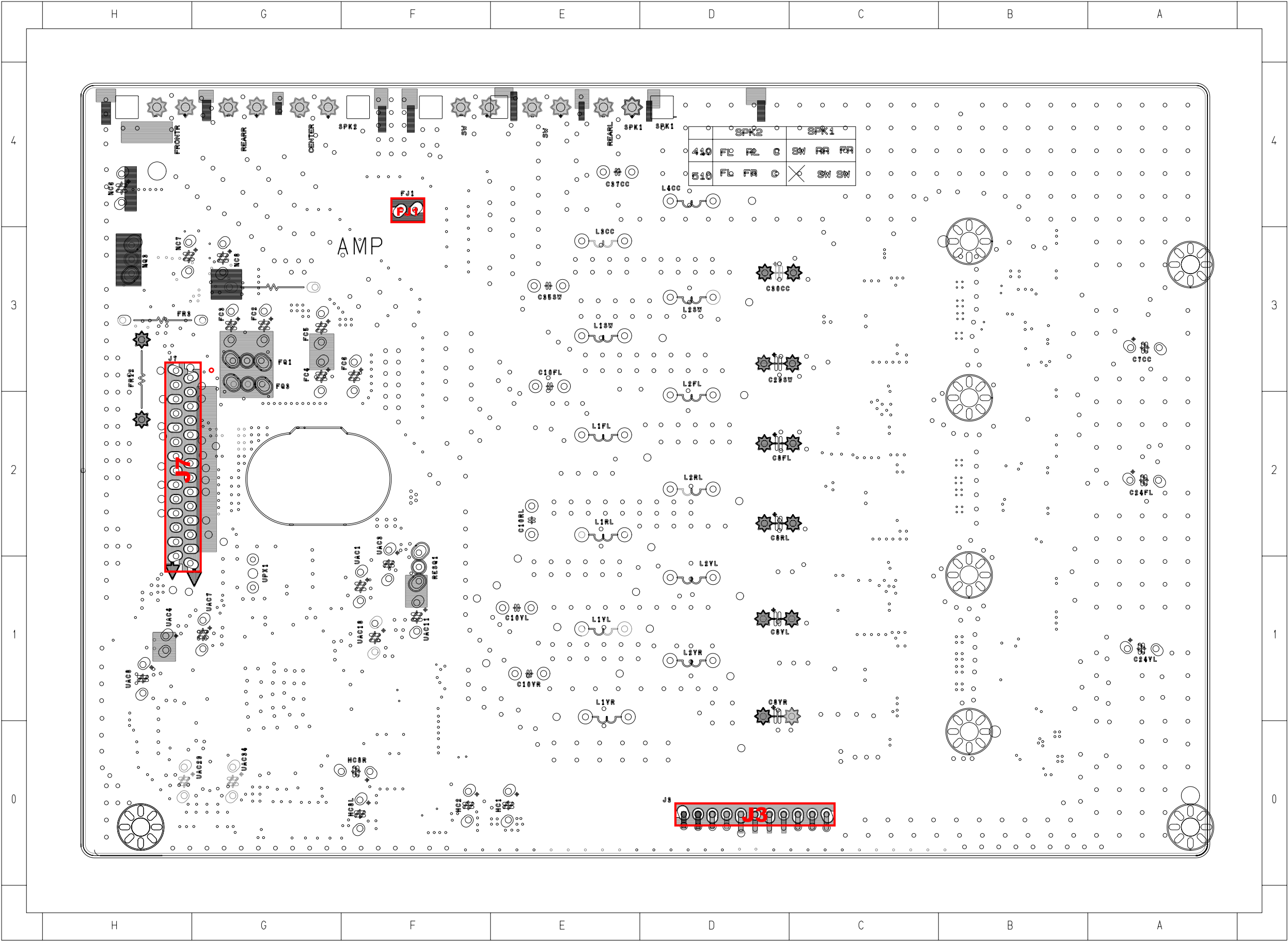
② J3  
Power-AMP Connector

| Pin No. | Signal |
|---------|--------|
| 1       | +12V   |
| 2       | S_GND  |
| 3       | -12V   |
| 4       | GND    |
| 5       | GND    |
| 6       | GND    |
| 7       | GND    |
| 8       | PVDD   |
| 9       | PVDD   |
| 10      | PVDD   |
| 11      | PVDD   |

6-4-2 Test Point Wave Form

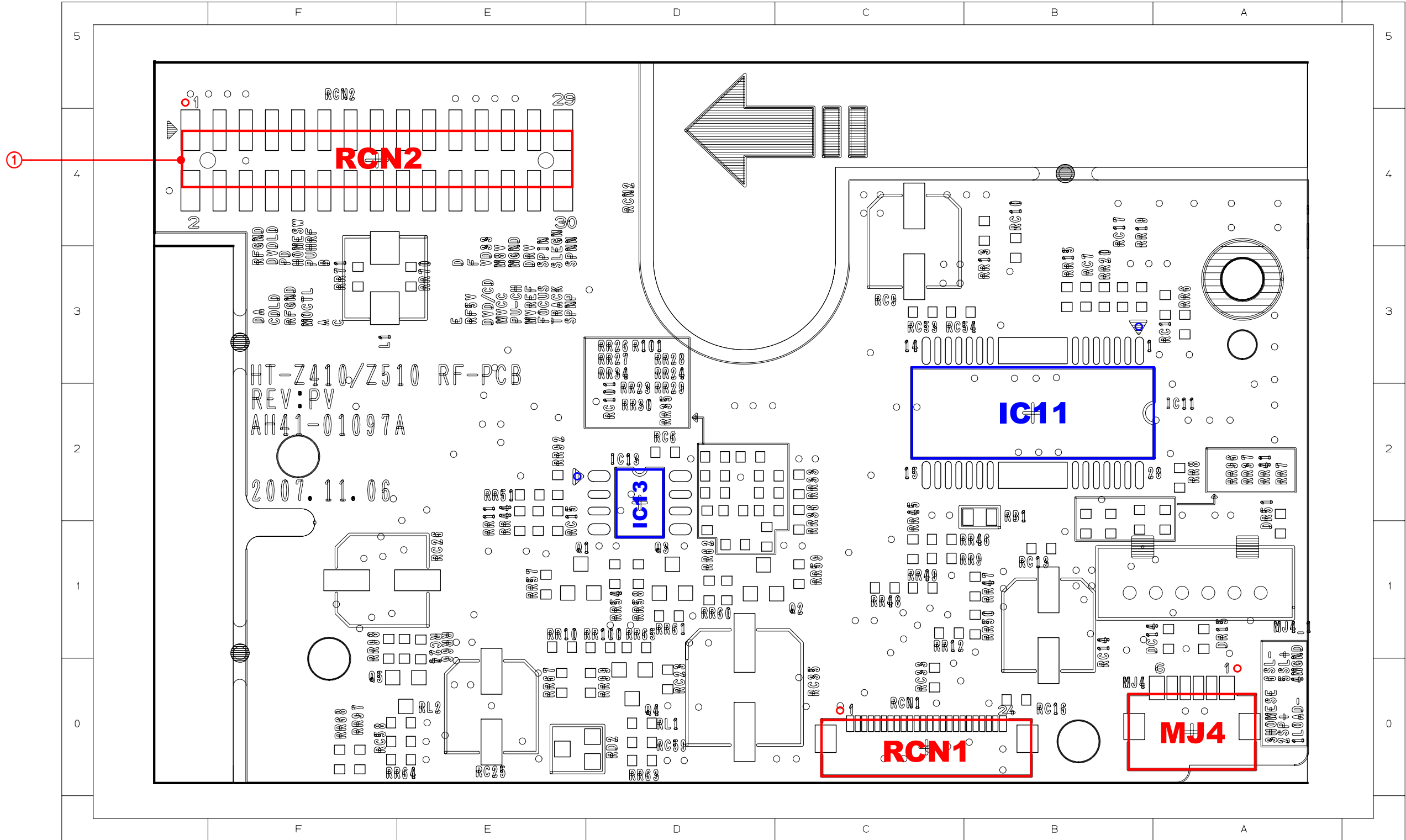


6-5 AMP PCB Bottom





6-6 RF PCB Top



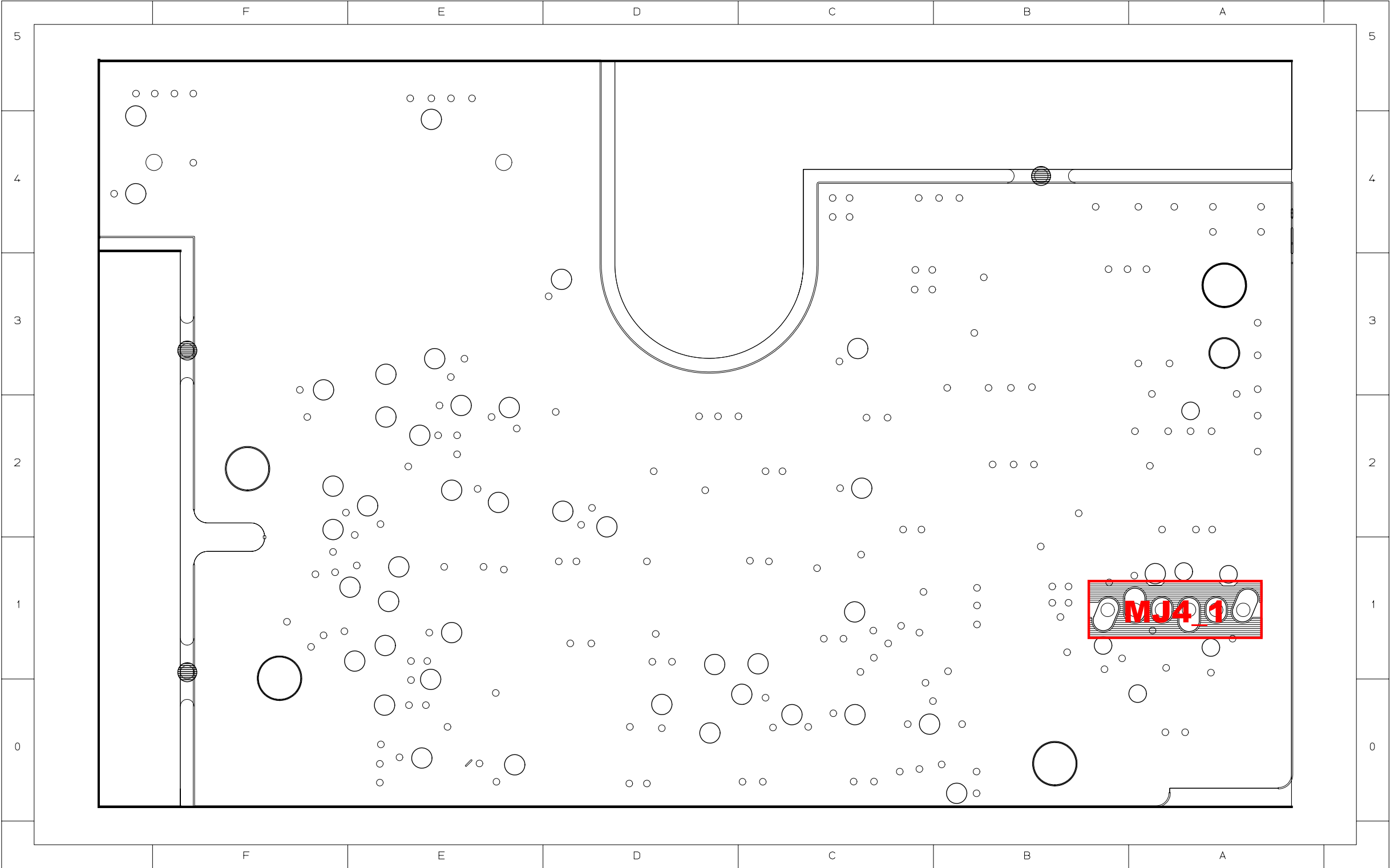


6-6-1 Pin Connection

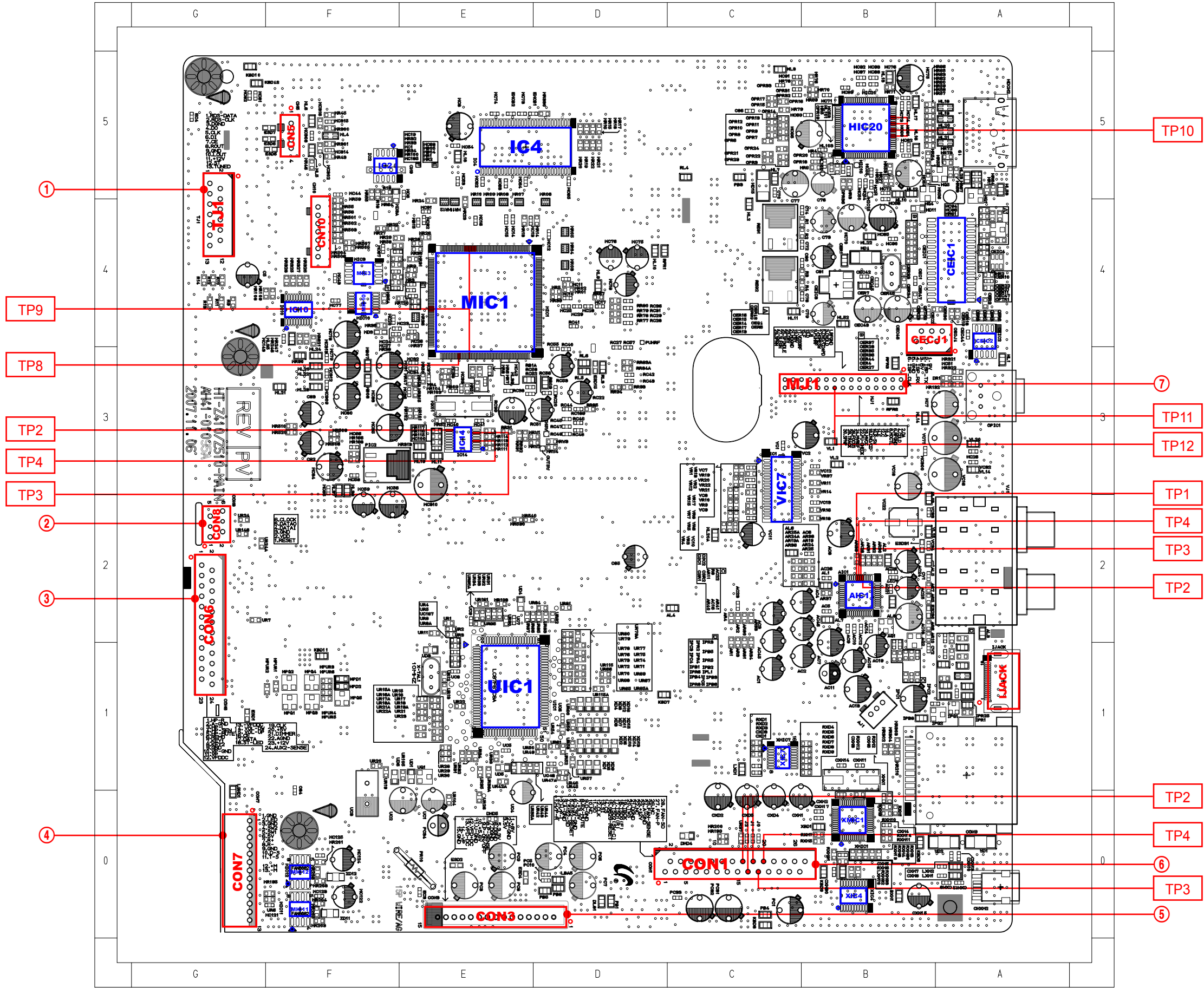
① RCN2  
RF Signal Connector

| Pin No. | Signal    |
|---------|-----------|
| 1       | RFGND     |
| 2       | DA        |
| 3       | DVDLD     |
| 4       | CDLD      |
| 5       | DVD/CD_PD |
| 6       | HOMESW    |
| 7       | MOCTL     |
| 8       | PUHAF     |
| 9       | D         |
| 10      | C         |
| 11      | B         |
| 12      | A         |
| 13      | E         |
| 14      | F         |
| 15      | F         |
| 16      | R_5V      |
| 17      | VD33RF    |
| 18      | DVD/CD    |
| 19      | NC        |
| 20      | MVCC      |
| 21      | MDGND     |
| 22      | PU_CHECK  |
| 23      | DRV       |
| 24      | MVREF     |
| 25      | SPINDLE   |
| 26      | FOCUS     |
| 27      | SLEGN     |
| 28      | TRACK     |
| 29      | SPNN      |
| 30      | SPNP      |

6-7 RF PCB Bottom



6-8 MAIN PCB Top



## 6-8-1 Pin Connection

① TJ1  
TUNER PACK Connector

| Pin No. | Signal   |
|---------|----------|
| 1       | RDS-DATA |
| 2       | RDS-CLK  |
| 3       | DGND     |
| 4       | DO       |
| 5       | CLK      |
| 6       | DI       |
| 7       | CE       |
| 8       | ROUT     |
| 9       | GND      |
| 10      | LOUT     |
| 11      | +12V     |
| 12      | ST       |
| 13      | TUNED    |

② CON8  
Update Connector

| Pin No. | Signal |
|---------|--------|
| 1       | RESET  |
| 2       | VDD    |
| 3       | GND    |
| 4       | DATAI  |
| 5       | DATAO  |
| 6       | CLOCK  |

③ CON6  
Front Control Connector

| Pin No. | Signal   |
|---------|----------|
| 1       | HP-R     |
| 2       | AGND     |
| 3       | HP-L     |
| 4       | HPSEN    |
| 5       | NC       |
| 6       | REMO     |
| 7       | KEY1     |
| 8       | KEY2     |
| 9       | GND      |
| 10      | VP_GND   |
| 11      | VP       |
| 12      | VFD DC   |
| 13      | -VFD DC  |
| 14      | VOL DOWN |
| 15      | VOL UP   |
| 16      | CE       |
| 17      | DATA     |
| 18      | ST-LED   |
| 19      | CLK      |
| 20      | 5.6V     |
| 21      | DIMMER   |
| 22      | NC       |
| 23      | +12V     |
| 24      | ASC_SENS |

④ CON7  
MECHA Control Connector

| Pin No. | Signal |
|---------|--------|
| 1       | M-     |
| 2       | M+     |
| 3       | T-S    |
| 4       | D-S    |
| 5       | GND    |
| 6       | R-     |
| 7       | R+     |
| 8       | 5V     |
| 9       | SW1    |
| 10      | SW2    |
| 11      | GND    |
| 12      | LED    |
| 13      | GND    |

⑤ CON3  
Power-Main Connector

| Pin No. | Signal   |
|---------|----------|
| 1       | +8V      |
| 2       | M_GND    |
| 3       | 5V       |
| 4       | 3.3V     |
| 5       | 3.3V     |
| 6       | D_GND    |
| 7       | D_GND    |
| 8       | P-SENSE  |
| 9       | P-ON/OFF |
| 10      | +5.6V    |
| 11      | U_GND    |
| 12      | VFD+DC   |
| 13      | VFD-DC   |
| 14      | -VP      |
| 15      | GND      |

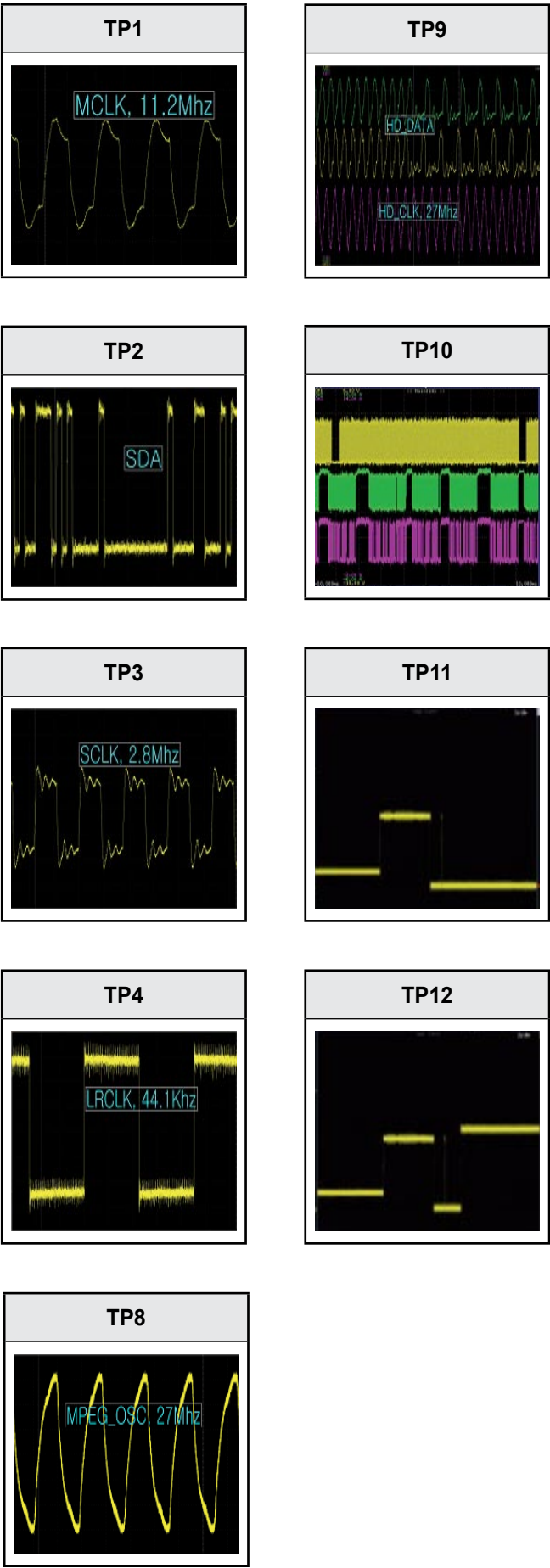
⑥ CON1  
AMP Signal Connector

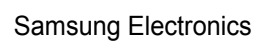
| Pin No. | Signal      |
|---------|-------------|
| 1       | H/P_R       |
| 2       | H/P_L       |
| 3       | A_GND       |
| 4       | 5152_SD     |
| 5       | 5152_RESET  |
| 6       | 3.3V_GND    |
| 7       | +3.3V       |
| 8       | EX_MUTE     |
| 9       | D_GND       |
| 10      | NC          |
| 11      | SD          |
| 12      | SLK         |
| 13      | SI          |
| 14      | CS          |
| 15      | 9829_RESET  |
| 16      | TSD2(SW_C)  |
| 17      | TSD1(REAR)  |
| 18      | TSD0(FRONT) |
| 19      | TBCK        |
| 20      | TWS         |
| 21      | D_GND       |
| 22      | NC          |
| 23      | +12V        |
| 24      | A_GND       |
| 25      | FAN_SENSE   |
| 26      | NC          |
| 27      | FAN_POWER   |
| 28      | FAN_SD      |

⑦ MJ1  
RF Signal Connector

| Pin No. | Signal    |
|---------|-----------|
| 1       | RFGND     |
| 2       | DA        |
| 3       | DVDLD     |
| 4       | CDLD      |
| 5       | DVD/CD_PD |
| 6       | HOMESW    |
| 7       | MOCTL     |
| 8       | PUHAF     |
| 9       | D         |
| 10      | C         |
| 11      | B         |
| 12      | A         |
| 13      | E         |
| 14      | F         |
| 15      | F         |
| 16      | R_5V      |
| 17      | VD33RF    |
| 18      | DVD/CD    |
| 19      | NC        |
| 20      | MVCC      |
| 21      | MDGND     |
| 22      | PU_CHECK  |
| 23      | DRV       |
| 24      | MVREF     |
| 25      | SPINDLE   |
| 26      | FOCUS     |
| 27      | SLEGN     |
| 28      | TRACK     |
| 29      | SPNN      |
| 30      | SPNP      |

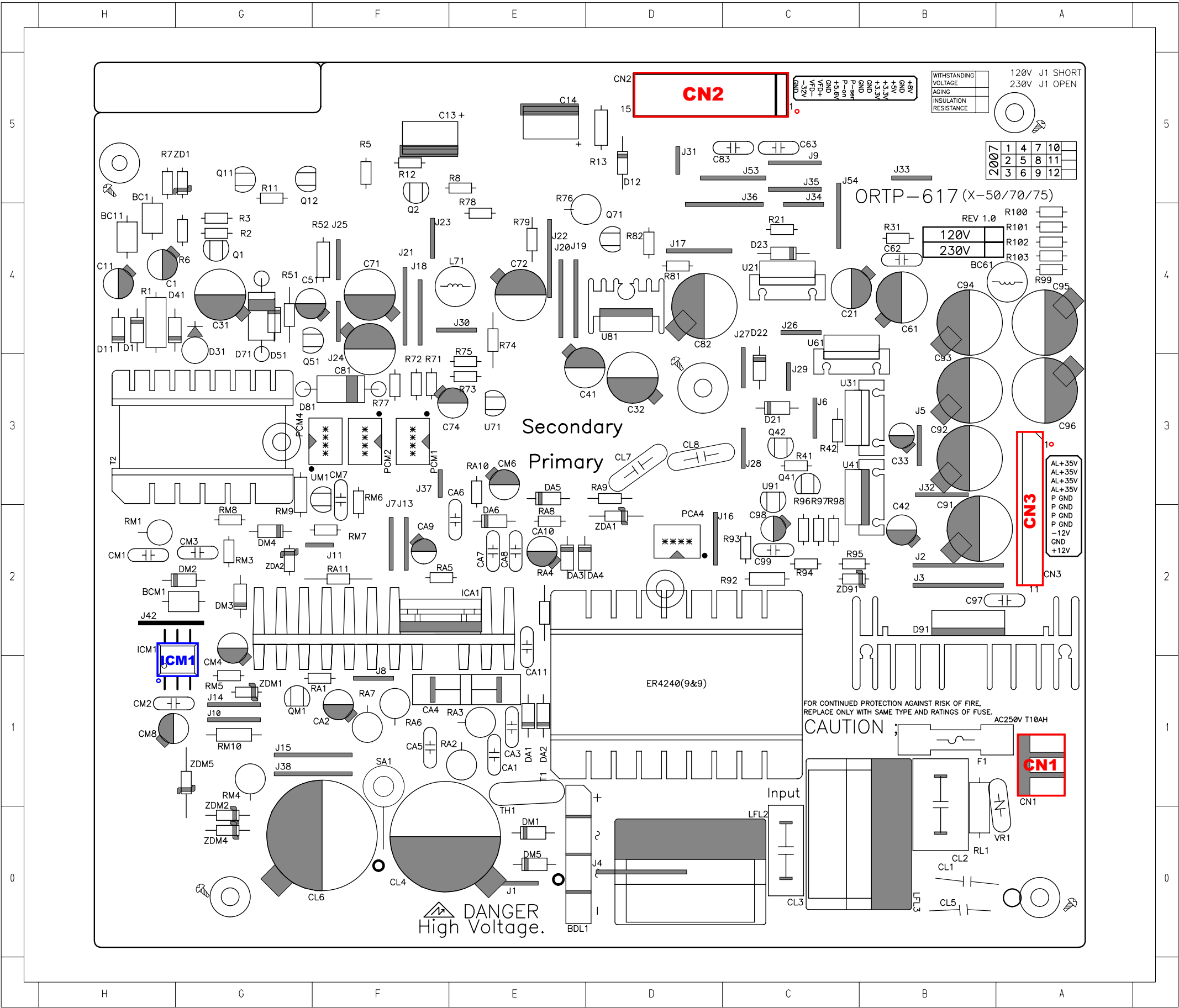
6-8-2 Test Point Wave Form







6-10 SMPS PCB Top





**7. Schematic Diagram**

7-1 Overall Block Diagram..... 7-2

7-2 FRONT..... 7-3

7-3 AMP ..... 7-4

7-4 RF ..... 7-5

7-5 MPEG ..... 7-6

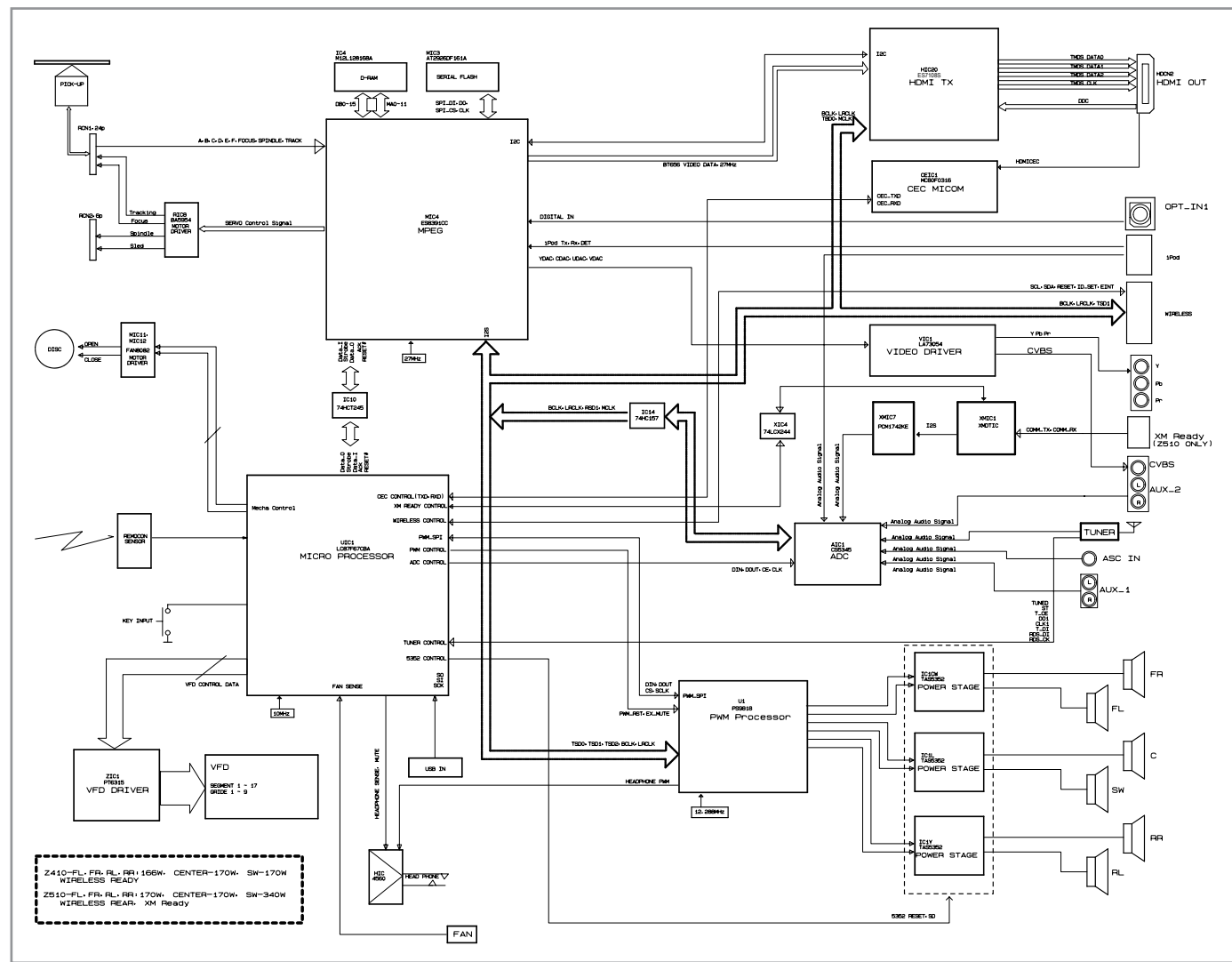
7-6 MICOM..... 7-7

7-7 HDMI..... 7-8

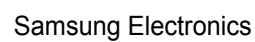
7-8 IPOD ..... 7-9

7-9 SMPS..... 7-10

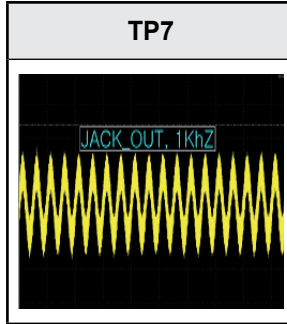
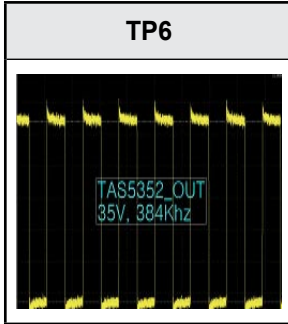
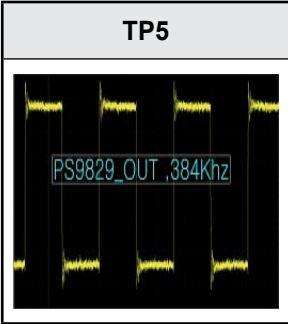
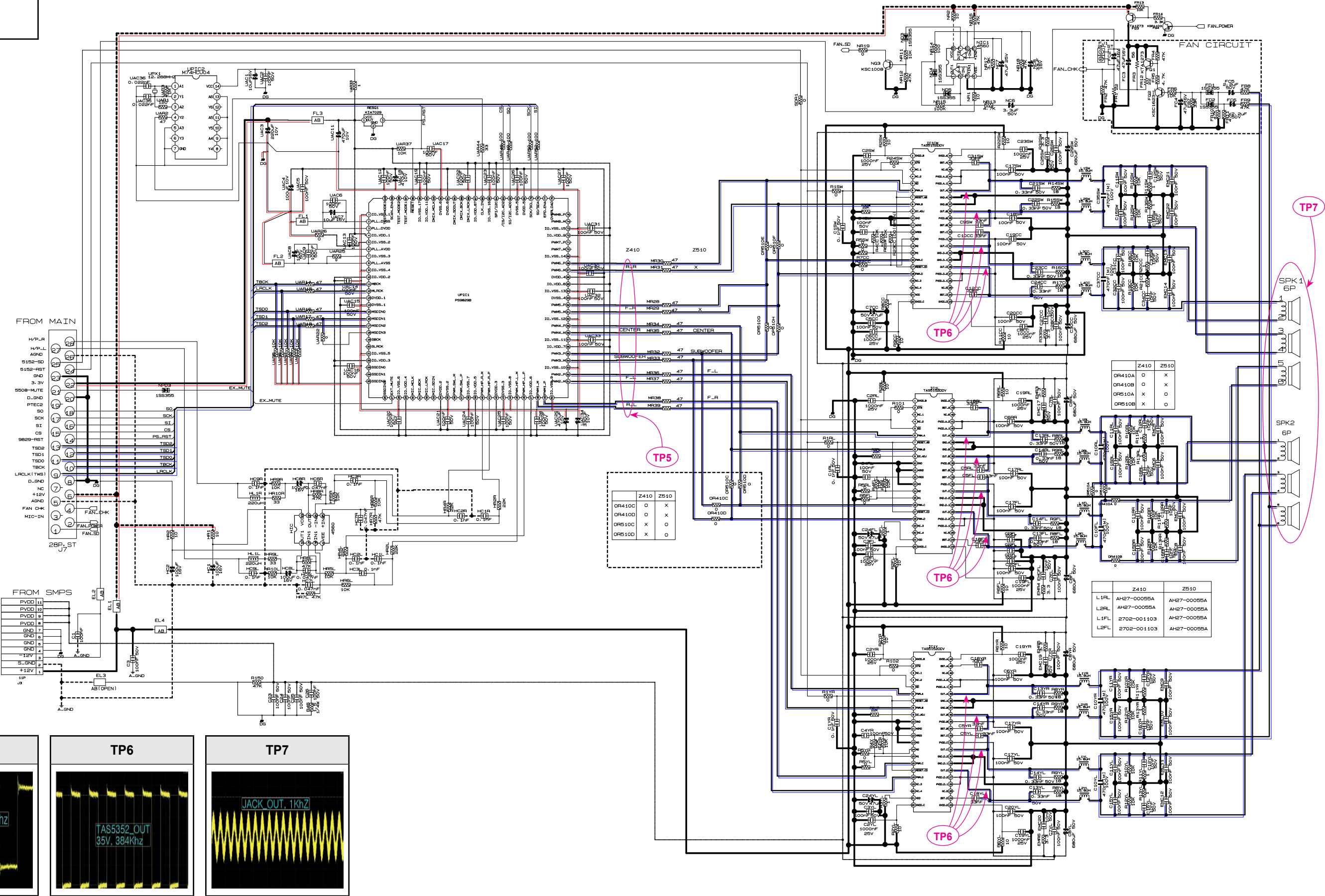
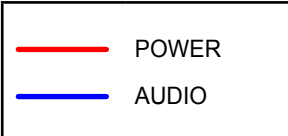
7-1 Overall Block Diagram



- The Main System Block consists of MPEG processor (ES8391), Micom (LC87F67CBA), Audio ADC (CS5345), HDMI Transmitter (ES7108S), CEC Micom (MC80F0316) and Video Driver (LA73054).
- The CS5345 performs stereo A/D conversion with analog audio input such as AUX1, AUX2, Tuner, XM and IPOD. The sampled data is transmitted by I2s format to MPEG (ES8391).
- MPEG (ES8391) supports DVD playback including MPEG4/Divx and provides a 12bit YCbCr interface for connection to an HDMI transmitter as well as audio serial interface to ES7108S, PS9818, and wireless module. 5-lines interface between mpeg and Micom consist of TXD, RXD, ACK, STB and reset. Micom controls Front Block, CEC Micom, Audio ADC, Tuner and AMP Block.
- The AMP Block consists of PS9829B, 3 TAS5352, and other passive component. PS9829B transforms PCM to PWM data and TAS5352 amplifies the signal to drive almost 170W per channel.

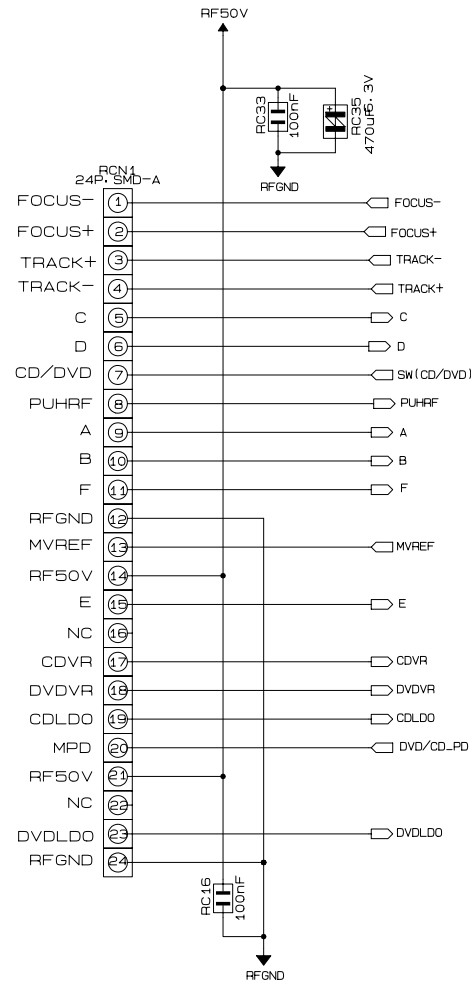


7-3 AMP

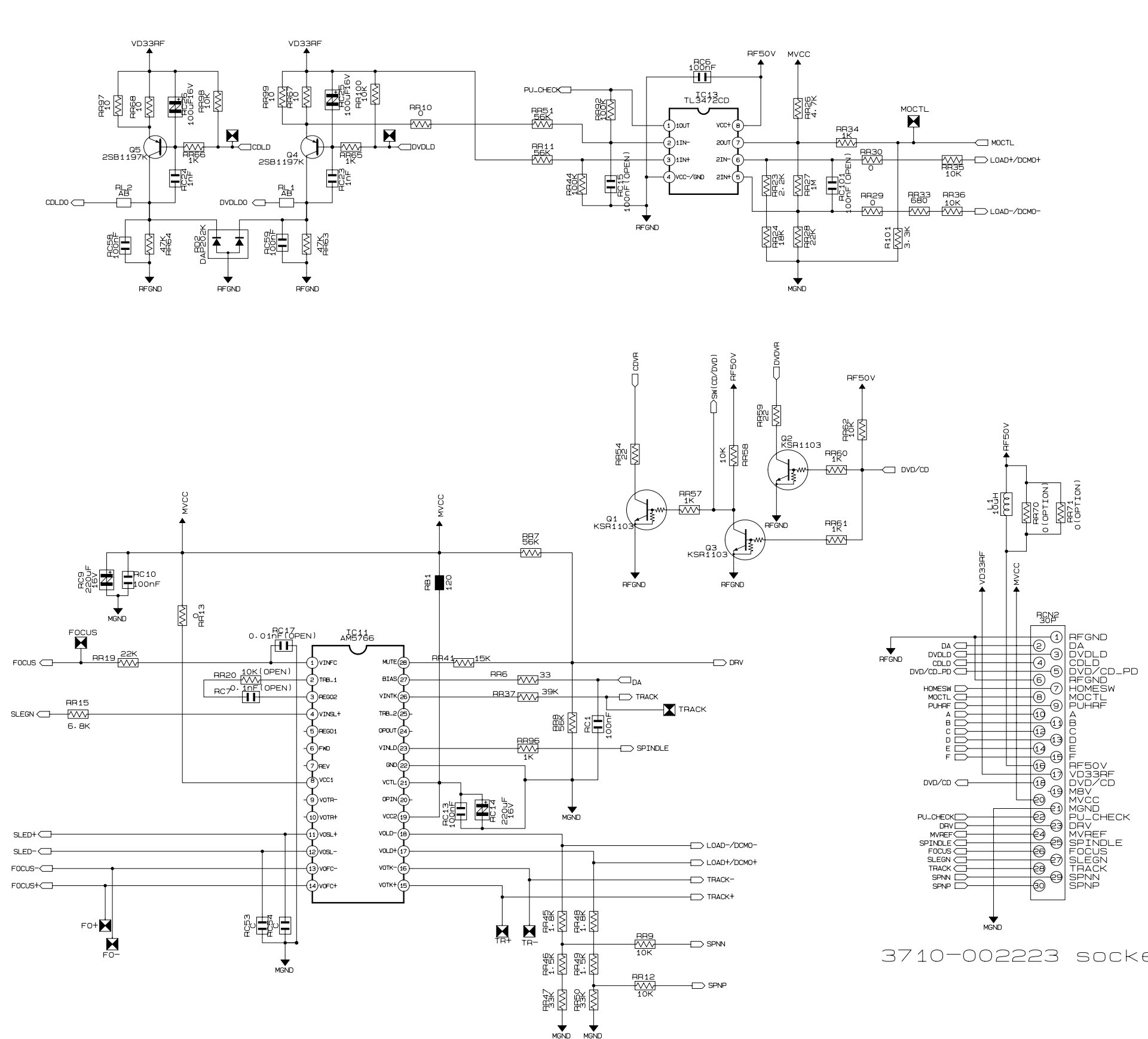
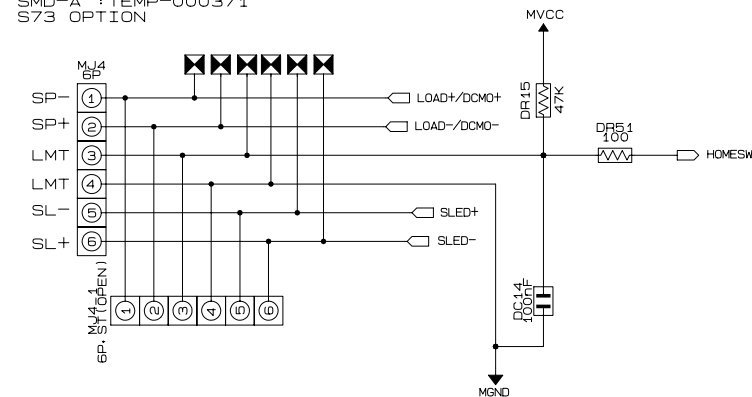


## 7-4 RF

YEONHO SMD-A LIF FPC:  
05010HR-24B TEMP-000372



YEONHO : 10003HR-06A00  
SMD-A : TEMP-000371  
S73 OPTION

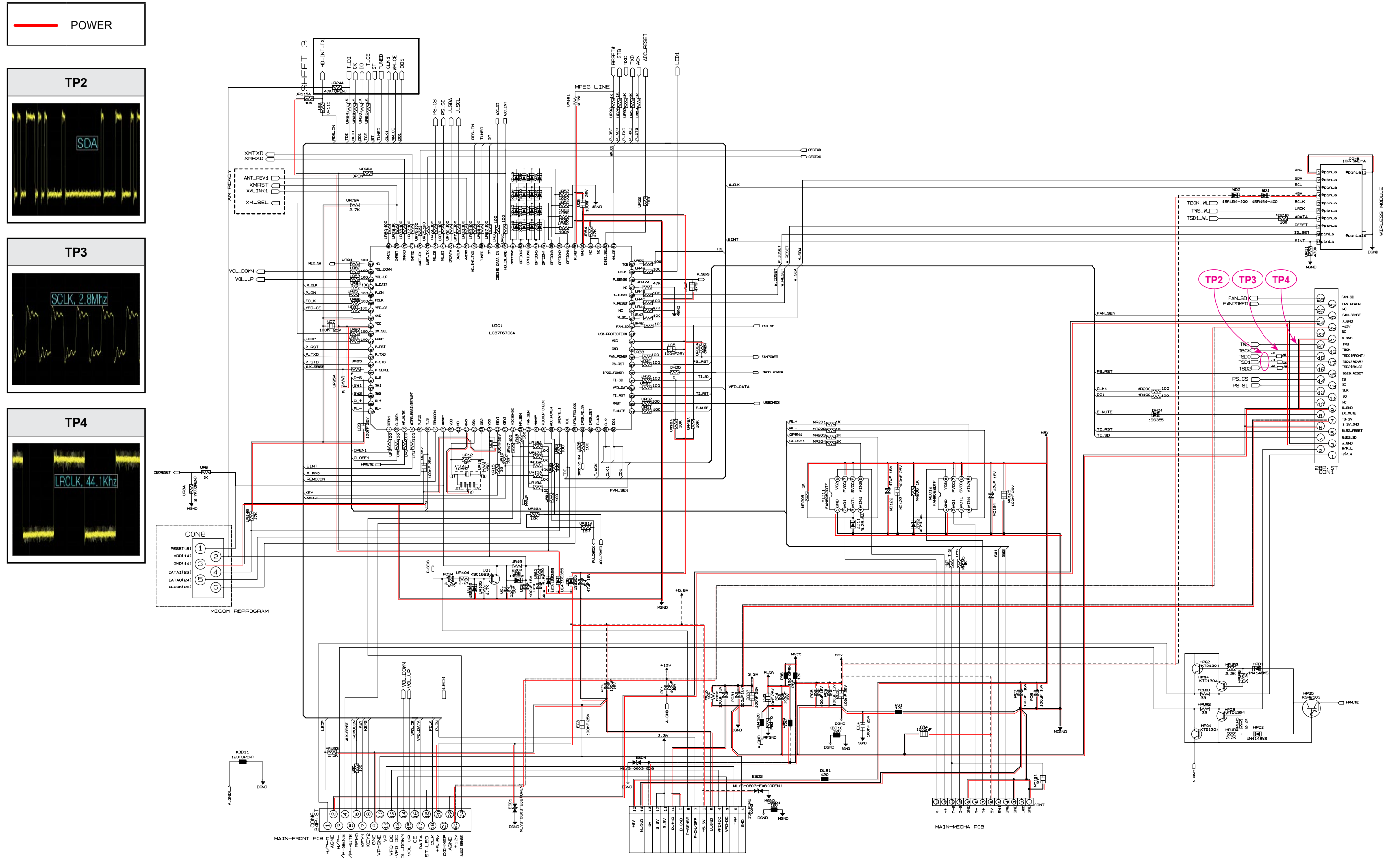


3710-002223 socket

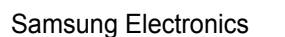




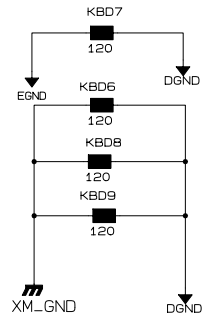
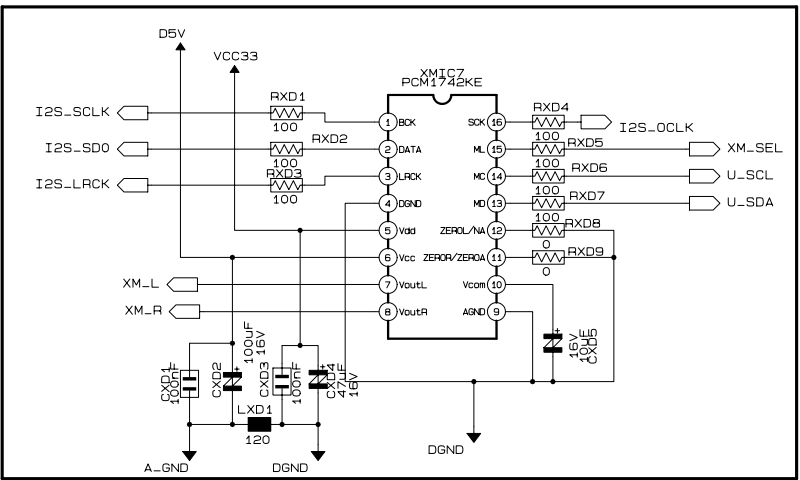
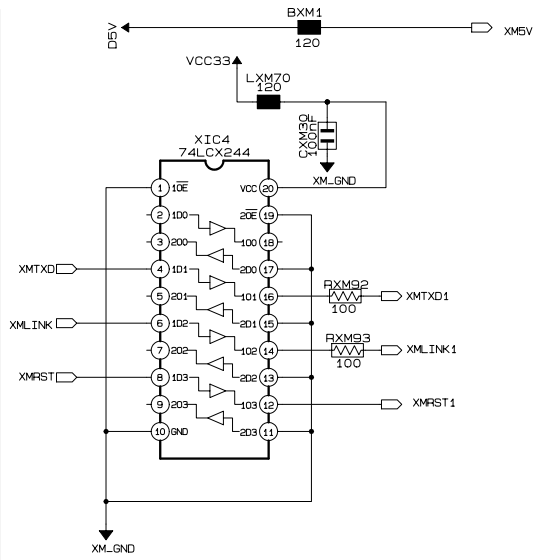
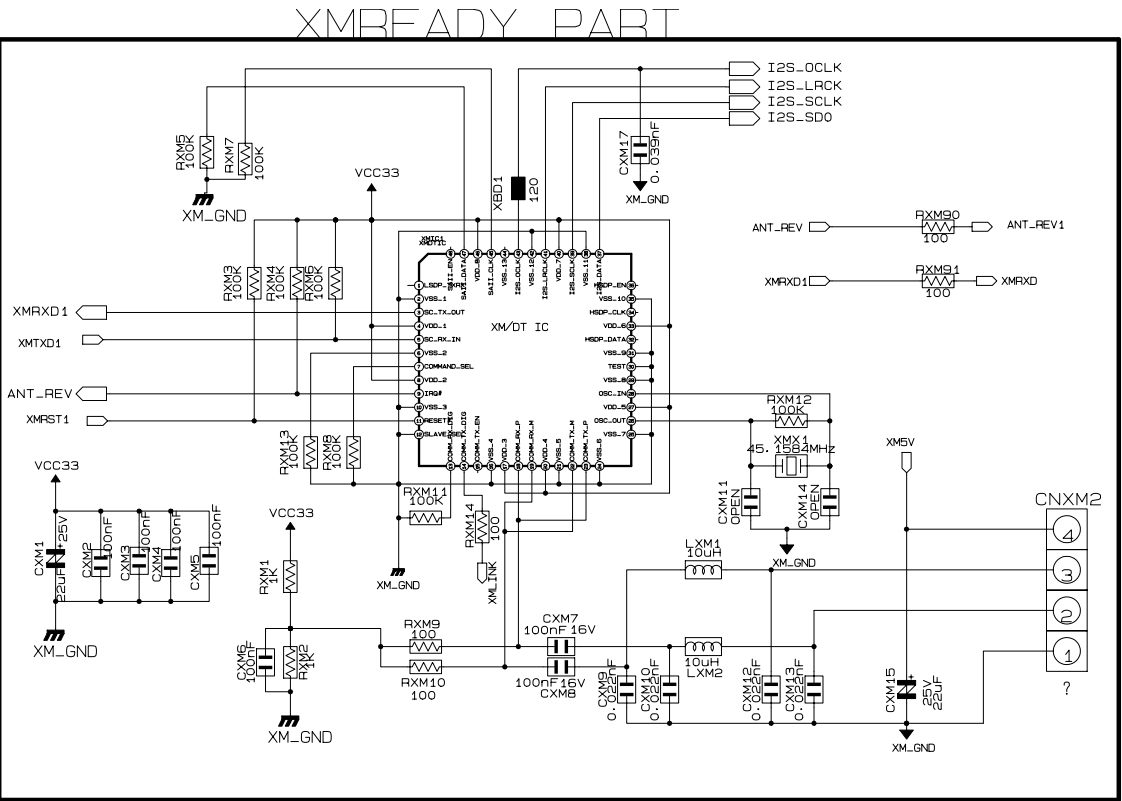
## 7-6 MICOM



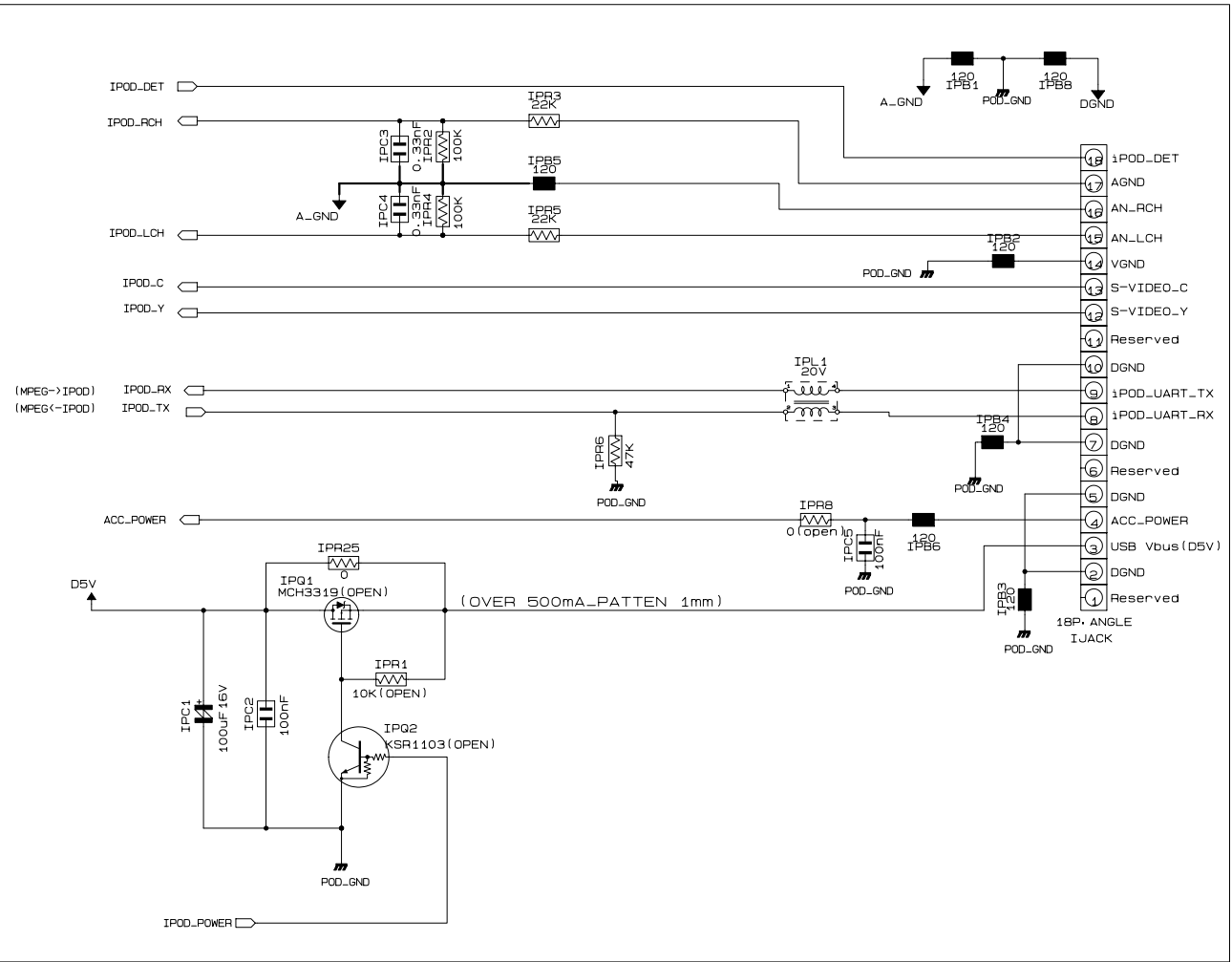




7-8 IPOD



IPOD\_DOCKING



7-9 SMPS

