

Service Service Service

37TA2800/79
42TA2800/79
37TA2800/98
42TA2800/98



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Service Manual

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1. Technical Specifications and Connections and Chassis Overview

Index of this chapter:

- 1.1 Technical Specifications
- 1.2 Connections
- 1.3 Chassis Overview

Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Specifications are indicative (subject to change).

1.1 Technical Specifications

1.1.1 Technical Specifications

Display type	: LCD
Screen size	: 37"(94cm), 16:9 42"(107cm), 16:9
Resolution (HxV pixels)	: 1280(H) x 768(V)
Contrast ratio	: 1000:1 (37") 1200:1 (42")
Light output (cd/m2)	: 500
Response time (ms)	: 8ms(Typ.)
Viewing angle (HxV degrees)	: 178/178
Tuning system	: WE (PAL B/G/D/K/I ; SECAM L/L)
Supported video formats	: 640 x 350 60Hz 640 x 480 60Hz 720 x 400 60Hz 800 x 600 60Hz 832 x 624 60Hz 1024 x 768 60Hz 1280 x 720 60Hz 1280 x 768 60Hz
HD support timing	: 1920X1080i 60Hz 1920X1080i 50Hz 1280X720P 60Hz 1280X720P 50Hz 720X576P 50Hz 720X480P 60Hz 720X576i 50Hz 720X480i 60Hz

1.1.2 Sound

Sound systems	: Stereo / Virtual Surround
Maximum power	: 2 x 10W

1.1.3 Miscellaneous

Power Supply	
-AC/DC Power adapter	: 90V ~ 264VAC, 50/60±2Hz
-Power consumption	: 250W/Max(at PC mode), 250W/Max(at TV mode) with Audio.
-Power cord length	: 1.8m
-Power cord type	: European type and China type
-Power indicator	: LED (On: Blue, Sleeping mode: Amber)
-Auto power saving	: <2W
-Stand-by (W)	: <2W
Horizontal scan	
-Horizontal	: 30 - 63KHz
-Vertical	: 50 - 75Hz
Dimensions (WxHxD in mm)	: 924 x 688.7 x 288
Ambient conditions:	
-Temperature	: 0°C to 40°C
-Humidity	: 10 to 90%

1.2 Connections

1.2.1 Signal Connector

1. Tuner: PAL D/K for China model
Multi-standard for WE model
2. SPDIF OUT : Digital audio output (HDMI audio output)
3. PVR OUT : Composite video output (CVBS) and audio R/L(RCA jack)
4. AV audio IN : AV1 and S-Video audio R/L(RCA jack)
5. AV1 IN : Composite video input (AV1)
6. S-Video 1 IN : S-video input (S-Video 1)
7. Comp video 1 IN : HDTV input with YPbPr format with audio R/L.
8. Comp video 2 IN : HDTV input with YPbPr format with audio R/L.
9. PC audio IN: audio R/L(mini-jack).
10. PC IN: VGA input (D-SUB connectors)
11. HDMI : digital video and audio input
12. speaker output : external speakers output connectors
13. earphone : earphone jack
14. AV2 IN : Composite video input (AV2 side)
15. AV audio IN : AV2 and S-Video side audio R/L(RCA jack)
16. S-Video IN : S-video input (S-Video side)

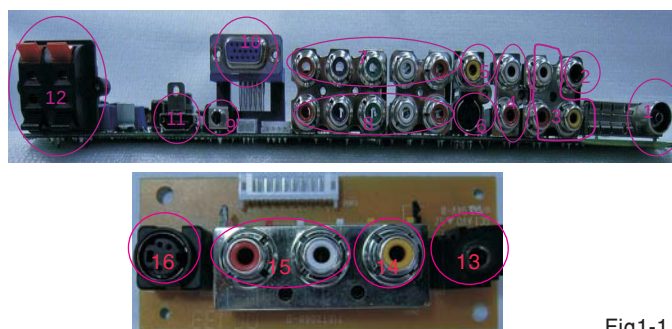


Fig1-1

1.2.2 Input signal

1.2.2.1 Signal type

PC Signal type

Analog Video : 0.7 Vp-p linear, positive polarity

Separate Sync. : TTL level, separate, positive or negative polarity

Signal source: pattern generator format as attachment.

(Table 1 to 6) Reference generator: Quantum Data 801GD, 802G or 802R Pattern Generator

A. PC Audio input

Location: Rear down side

Specification

Audio L/R input

- Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 k Ω.

Note : the input will be overloaded when the signal > 1.5 V rms.

Connector type : 3.5 mm mini Jack

ESD-protected : 15 kV

TV Signal type

a. RF Signal : Aerial input / 10mV(30-100dBuV)

b. Video signal : CVBS input (RCA jack) / 1Vpp (300mV-sync, 700mV-video.)

S video input / 1VppY-signal, +/-300mV
C-signal

SCART input: CVBS、S、SRGB
signal (for WE model only)

Comp video in(YPbPr input)/ 1Vpp Y
signal, +/-350mV Pb,Pr signal

HDMI:Digital interface with 4 channels
TMDS signal

CVBS output (RCA jack) / 1Vpp (
300mV-sync, 700mV-video.)

- c. Audio signal : Audio (1) R/L for AV IN(AV and S-Video).
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 kΩ.

Audio (2) R/L for SCART IN
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 kΩ.

Audio (3) R/L for Comp video IN.
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance > 10 kΩ.

Audio (4) digital audio for HDMI Video IN.

- d. PVR (CVBS) output:

Video: CVBS output 1Vpp / Impedance : 75Ω.

Audio: R/L output (from CVBS)
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance < 1 kΩ.

- e. SCART output: (for WE model only)

Video: CVBS output 1Vpp / Impedance : 75Ω.

Audio: R/L output (from CVBS)
Level: - Nominal : 0.5 V rms.
- Maximum : 1.5 V rms.
- Impedance < 1 kΩ.

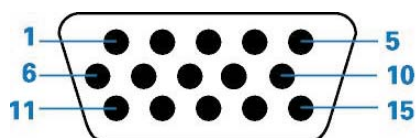
- f. SPDIF output: Serial digital audio output when input is HDMI.

- g. Headphone

Audio: R/L output -10mW at 32Ω.
3.5mm stereo jack with switch
Impedance is between 8 and 600 Ω

PC input connectors

D-sub Pin assignment

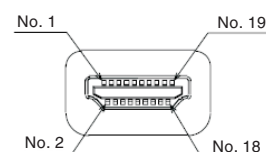


PIN No.	SIGNAL b(PC)
1	Red
2	Green
3	Blue
4	NC
5	GND
6	Red GND
7	Green GND
8	Blue GND
9	+5V (Supply from PC)
10	Sync GND
11	NC
12	SDA
13	H-sync
14	V-sync
15	SCL

TV video input /output connectors

A. HDMI for digital Video / Audio interface with pin assignment as follows:

Type A Connector



PIN No.	SIGNAL
1	TMDS Data2+
2	TMDS Data2 shield
3	TMDS Data2-
4	TMDS Data1+
5	TMDS Data1 shield
6	TMDS Data1-
7	TMDS Data0+
8	TMDS Data0 shield
9	TMDS Data0-
10	TMDS Clock+
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC
14	Reserved (N.C. on device)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug Detect

B. CVBS

The input signals are applied to display through CVBS cable

Pin assignment

PIN NO.	SIGNAL
1	GND
2	CVBS
3	CVBS
4	CVBS

C. S-Video

The input signals are applied to display through S-Video cable

Pin assignment

PIN NO.	SIGNAL
1	GND
2	GND
3	GND
4	GND
5	GND
6	LUMA
8	CHROMA

D. Component Video

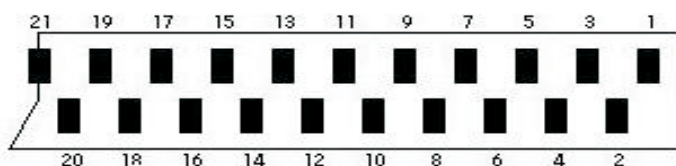
The input signals are applied to display through Component Video

RCA Jack pin assignment

PIN NO.	SIGNAL
1	GND
2	Red → Pr
3	GND
4	Blue → Pb
5	GND
6	Green → Y

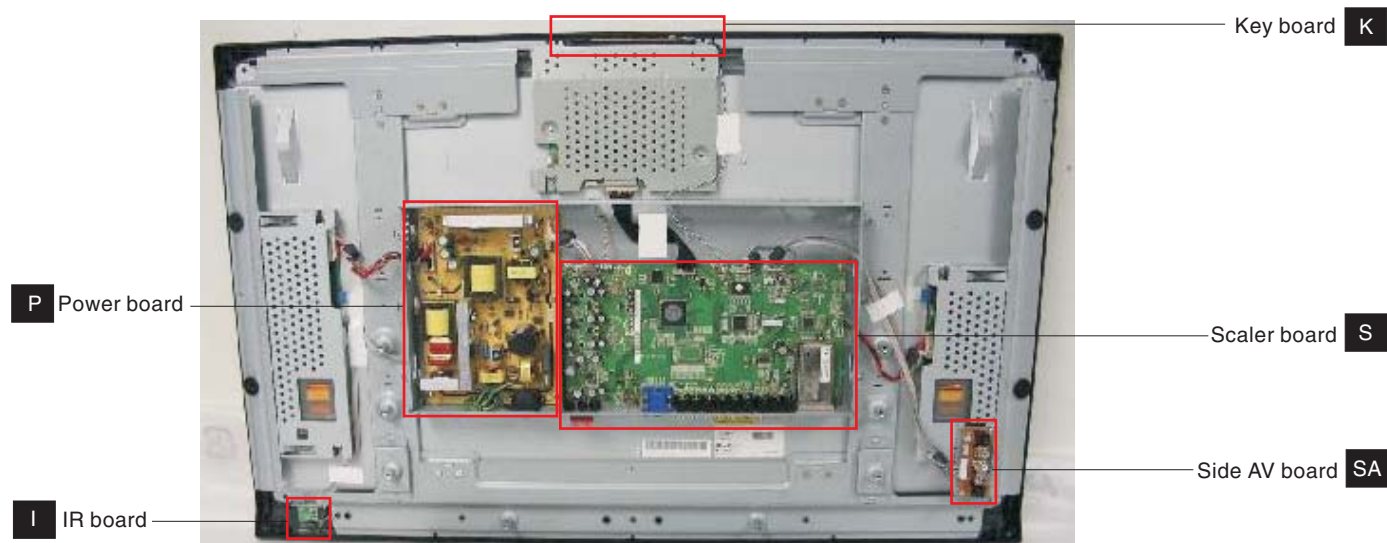
E. SCART

Scart connector is only used in WE model. The Scart (Syndicat des Constructeurs d'Appareils Radiorecepteurs et Téléviseurs) connector is used for combined audio and video connections.



Pin	TV SCART
1	N/C
2	Right audio input
3	N/C
4	Audio ground
5	Blue ground
6	Left audio input
7	Blue output
8	0-2.5 volts (low) when: TV output 4.5-7.5 volts (High-to-6v) when: -inputting picture format setting is '16:9', 9-12 volts (high-to-12v) when: -inputting picture format setting is '4:3'
9	Green ground
10	N/C
11	Green output
12	N/C
13	Red ground
14	N/C
15	Red output
16	0 volt (low) when:- pin 8 of the TV scart is low or when: - Composite video signal 1-3 volts (high) when: - video input setting is 'RGB',
17	Composite video output ground
18	Composite video input ground
19	N/C
20	Composite video input
21	Ground

1.3 Chassis Overview



2. Safety Instructions, Warnings, and Notes

Index of this chapter:

- 2.1 Safety Instructions
- 2.2 Warnings
- 2.3 Notes

2.1 Safety Instructions

Safety regulations require the following **during** a repair:

- Connect the set to the Mains/AC Power via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol , only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains/AC Power lead for external damage.
- Check the strain relief of the Mains/AC Power cord for proper function.
- Check the electrical DC resistance between the Mains/AC Power plug and the secondary side (only for sets that have a Mains/AC Power isolated power supply):
 1. Unplug the Mains/AC Power cord and connect a wire between the two pins of the Mains/AC Power plug.
 2. Set the Mains/AC Power switch to the "ON" position (keep the Mains/AC Power cord unplugged!).
 3. Measure the resistance value between the pins of the Mains/AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
 4. Switch "OFF" the set, and remove the wire between the two pins of the Mains/AC Power plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD ) . Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
 - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
 - Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "ON".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

2.3 Notes

2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground () , or hot ground () , depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the

Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).

- Where necessary, measure the waveforms and voltages with () and without () aerial signal. Measure the voltages in the power supply section both in normal operation () and in stand-by () . These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.
- Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the "double-D symbol", are trademarks of Dolby Laboratories.

2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads ($\mu = \times 10^{-6}$), nano-farads ($n = \times 10^{-9}$), or pico-farads ($p = \times 10^{-12}$).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

2.3.3 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

Identification: The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 2006 week 17).



E_06532_024.eps
130606

Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.



Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
 - To reach a solder-tip temperature of at least 400°C.
 - To stabilise the adjusted temperature at the solder-tip.
 - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed. To avoid wear-out of tips, switch "off" unused equipment or reduce heat.
- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly to **avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:

- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid mix of two alloys).

2.3.4 Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-1) is composed. From this date on, the **third digit** in the serial number (example: AG2B0335000001) indicates the number of

the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s.

By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used. If the third digit of the serial number contains the number 1 (example: AG1B0335000001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG2B0335000001), then there are two different B.O.M.s. Information about this is important for ordering the correct spare parts!

For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

2.3.5 Board Level Repair (BLR) or Component Level Repair (CLR)

If a board is defective, consult your repair procedure to decide if the board has to be exchanged or if it should be repaired on component level.

If your repair procedure says the board should be exchanged completely, do not solder on the defective board. Otherwise, it cannot be returned to the O.E.M. supplier for back charging!

2.3.6 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.
- **Always respect voltages.** While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

3. Directions for Use

3. Directions for Use

You can download this information from the following websites:

<http://www.philips.com/support>

<http://www.p4c.philips.com>

37TA2800 AP OSD tree

PC MODE			
1st Layer	2nd Layer	3rd Layer	
Picture			
	Color temp	Normal Warm Cool	
	Brightness		
	Contrast		
	Auto adjust	Yes	
		Store ?	Yes No
	Manual adjust	Phase Clock Horizontal Vertical	
Sound			
	Smart sound	Personal Speech Music Movie Multimedia	Equalizer Equalizer Equalizer Equalizer Equalizer
	Virtual surround	On Off	
	AVL	On Off	
Features			
	Picture format	Full screen 4:3	
	PIP	Size Off Small Large PBP	
		Input	TV AV1 AV2
		Position	1 2 3 4
		Sound	PC
			PIP

Install			
	Language	English 中文 Thai Arabic	
	Factory reset	No Yes	

TV / AV/ S-VIDEO / HD MODE				
1st layer	2nd layer	3rd layer	4th layer	5th layer
Picture				
	Smart picture	Personal Rich Nature Soft Multimedia		
	Contrast			
	Brightness			
	Color			
	Sharpness			
	Color temp	Normal Warm Cool		
	Picture format	Super zoom 4:3 Movie expand 14:9 Movie expand 16:9 16:9 subtitle Widescreen		
Sound				
	Smart sound	Personal Speech Music Movie Multimedia	Equalizer Equalizer Equalizer Equalizer Equalizer	
	Virtual surround	On Off		
	AVL	On Off		
Features				
	Timer	Clock Start time Stop time Sleep timer		
	NR	On Off		

	Auto lock	Lock program Change code Clear all	Yes On Off	
	Source list	TV HDMI 1 HDMI 2 CVI 1 CVI 2 AV Side AV PC		
Install				
	Language	English Đ Thai Arabic		
	Auto store	Start ?	Auto store Please wait Prog. found Frequency	
	Manual store	Manual store	MHz Start ?	
		Prog. no Finetune		
		Store	Store ? Stored	
	Channel setting	Channel edit	Channel Skipped	Active Skipped
		Channel swap	From To Exchange	Exchange ? Exchanged
		Name edit	Channel Name	
		Channel sort	Sort ?	Sorting □ □ Sort complete
	Factory reset	No Yes		

3. Directions for Use

37TA2800 CH OSD tree

PC MODE			
1st Layer	2nd Layer	3rd Layer	
Picture			
	Color temp	Normal Warm Cool	
	Brightness		
	Contrast		
	Auto adjust	Yes	
		Store ?	Yes No
	Manual adjust	Phase Clock Horizontal Vertical	
Sound			
	Smart sound	Personal Speech Music Movie Multimedia	Equalizer Equalizer Equalizer Equalizer Equalizer
	Virtual surround	On Off	
	AVL	On Off	
Features			
	Picture format	Full screen 4:3	
	PIP	Size	Off Small Large PBP
		Input	TV AV1 AV2
		Position	1 2 3 4
		Sound	PC
			PIP
Install			
	Language	English 中文	
	Factory reset	No Yes	

TV / AV/ S-VIDEO / HD MODE				
1st layer	2nd layer	3rd layer	4th layer	5th layer
Picture				
	Smart picture	Personal Rich Nature Soft Multimedia		
	Contrast Brightness Color Sharpness			
	Color temp	Normal Warm Cool		
	Picture format	Super zoom 4:3 Movie expand 14:9 Movie expand 16:9 16:9 subtitle Widescreen		
Sound				
	Smart sound	Personal Speech Music Movie Multimedia	Equalizer Equalizer Equalizer Equalizer Equalizer	
	Virtual surround	On Off		
	AVL	On Off		
Features				
	Timer	Clock Start time Stop time Sleep timer		
	NR	On Off		
	Auto lock	Lock program Change code Clear all	Yes On Off	
	Source list	TV HDMI 1 HDMI 2 CVI 1 CVI 2 AV Side AV PC		

3. Directions for Use

Install				
	Language	English 中文		
	Auto store	Start ?	Auto store Please wait Prog. found Frequency	
	Manual store	Manual store	MHz Start ?	
		Prog. no Finetune		
		Store	Store ? Stored	
	Channel setting	Channel edit	Channel Skipped	Active Skipped
		Channel swap	From To Exchange	Exchange ? Exchanged
		Name edit	Channel Name	
		Channel sort	Sort ?	Sorting Sort complete
	Factory reset	No		
		Yes		

42TA2800 AP OSD tree

PC MODE			
1st Layer	2nd Layer	3rd Layer	
Picture			
	Color temp	Normal Warm Cool	
	Brightness		
	Contrast		
	Auto adjust	Yes	
		Store ?	Yes No
	Manual adjust	Phase Clock Horizontal Vertical	

Sound			
	Smart sound	Personal Speech Music Movie Multimedia	Equalizer Equalizer Equalizer Equalizer Equalizer
	Virtual surround	On Off	
	AVL	On Off	
Features			
	Picture format	Full screen 4:3	
	PIP	Size	Off Small Large PBP
		Input	TV AV1 AV2
		Position	1 2 3 4
		Sound	PC
			PIP
Install			
	Language	English 中文 Thai Arabic	
	Factory reset	No Yes	

TV / AV/ S-VIDEO / HD MODE				
1st layer	2nd layer	3rd layer	4th layer	5th layer
Picture				
	Smart picture	Personal Rich Nature Soft Multimedia		
	Contrast Brightness Color Sharpness			

3. Directions for Use

	Color temp	Normal Warm Cool		
	Picture format	Super zoom 4:3 Movie expand 14:9 Movie expand 16:9 16:9 subtitle Widescreen		
Sound				
	Smart sound	Personal Speech Music Movie Multimedia	Equalizer Equalizer Equalizer Equalizer Equalizer	
	Virtual surround	On Off		
	AVL	On Off		
Features				
	Timer	Clock Start time Stop time Sleep timer		
	NR	On Off		
	Auto lock	Lock program Change code Clear all	Yes On Off	
	Source list	TV HDMI 1 HDMI 2 CVI 1 CVI 2 AV Side AV PC		
Install				
	Language	English 中文 Thai Arabic		
	Auto store	Start ?	Auto store Please wait Prog. found Frequency	

Manual store	Manual store	MHz	
	Prog. no Finetune	Start ?	
Channel setting	Store	Store ?	
		Stored	
	Channel edit	Channel Skipped	Active Skipped
	Channel swap	From To Exchange	Exchange ? Exchanged
	Name edit	Channel Name	
Factory reset	Channel sort	Sort ?	Sorting ☐ ☐ Sort complete
	No Yes		

4. Mechanical Instructions

Index of this chapter:

4.1 Assy/Panel Removal

4.2 Set Re-assembly

4.1 Assy/Panel Removal

Notes: Please put your machine on soft material to avoid to scrape panel when you disassemble it.

Front view



Fig.1

Back view

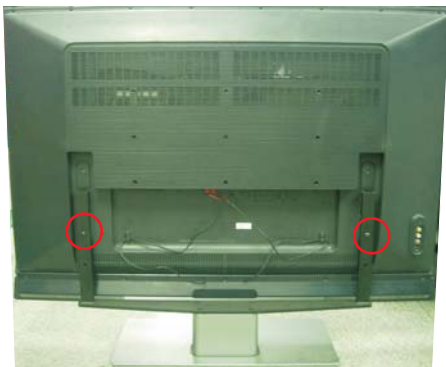


Fig.2

Step 1. Remove the stand.

Remove the 2 screws as Fig.2.

Step 2. Remove the Speaker.

Remove the 5 screws as Fig.3.

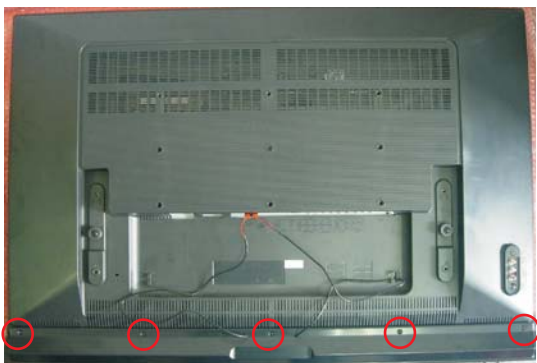


Fig.3

Step 4. Remove the Back cover as Fig.4~5.

- Remove the 28 screws on the bottom side as Fig.4.
- Remove the back cover as Fig.5.

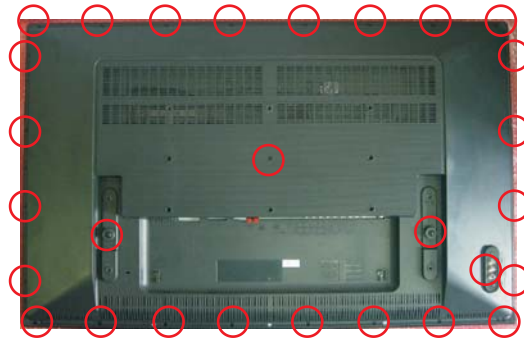


Fig.4

Step 5. Remove the Key, Side AV, IR board.

- Remove the 4 screws and disconnect the 3 cables to remove the Key, Side AV, IR board as Fig.5.

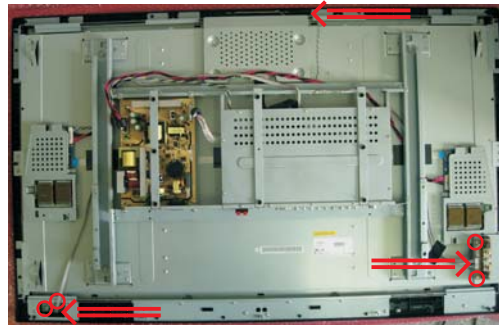


Fig.5

Step 6. Remove the Main Frame.

- Remove the 12 screws and disconnect 2 cables to remove the Main Frame as Fig.6.



Fig.6

Step 7. Remove the Scaler and Power board.

- Remove the 8 screws to remove the MF-LPL-L/R as Fig.7.
- Remove the 12 screws to remove the VESA-BKT-LR/M as Fig.7~8.
- Remove the 6 screws to remove the MS-Scaler as Fig.9.
- Remove the 7 screws and disconnect 3 cables to remove the Power board as Fig.10.
- Remove the 18 screws and disconnect 6 cables to remove the Scaler board as Fig.10.

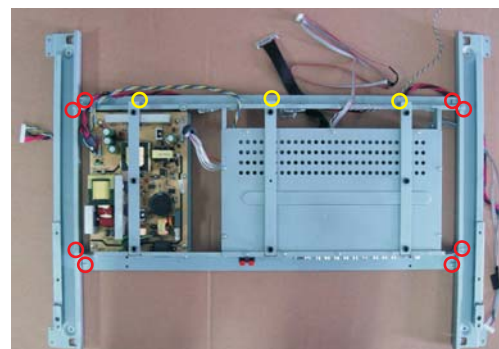


Fig.7

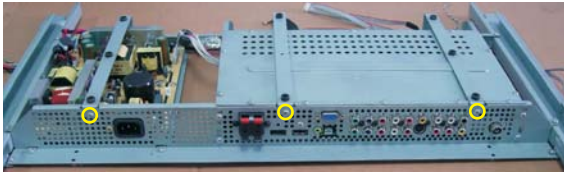


Fig.8

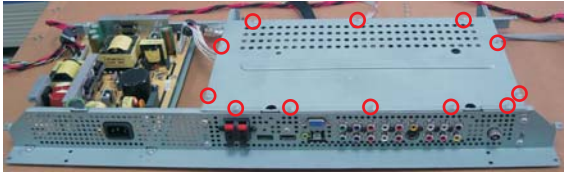


Fig.9

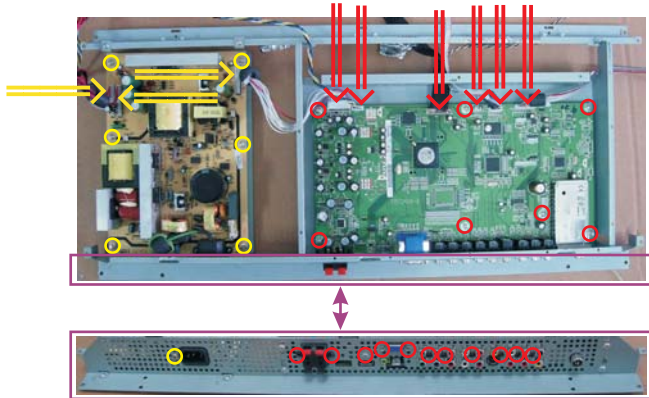


Fig.10

Step 8. Remove the Front Bezel assy as Fig.11.

a. Remove the 33 screws as Fig.11.



Fig.11



Fig.12

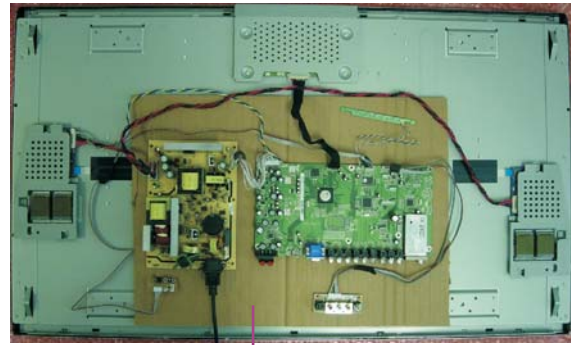


Fig.13

Insulation material

Service position

Notes: Please add insulation material between board and panel to avoid short circuit.

4.2 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

Notes:

- While re-assembling, make sure that all cables are placed and connected in their original position.
- Pay special attention not to damage the EMC foams at the SSB shielding. Check that EMC foams are put correctly on their places.

In warranty, it is not allowed to disassembly the LCD panel, even the backlight unit defect.

Out of warranty, the replacment of backlight unit is a correct way when the defect is cused by backlight (CCFL,Lamp).

5. Service Modes, Error Codes and Fault Finding

index of this chapter:

5.1 CSM

5.2 Factory Mode

5.3 Repair Flow Chart

5.1 CSM

It can display CSM windows message when press 1-2 3-6 5-4 on the button (RC) remote control in normal operation mode.

The following information is displayed on screen:

CSM Item	Contents	Remark
1: Set Type	42TA2800/98	Project name
2: Production code	BZ000651123456	14 digit production-code(serial number)
3: SW-naming main-processor	TA2800 42LPL V1.13G 20070328 AP SECAM98 Factory Power OFF	SW version(TA2800:project name, V1.13G: software version, 20070328: software release date, SECAM98 Factory Power OFF: region)
4: Code 1	FF FF FF FF FF	Error codes in NVM/EEPROM (5 last logged errors)
5: Code 2	FF FF FF FF FF	Error codes in NVM/EEPROM (5 first logged errors)
6: Key (HDCP)	Invalid	HDMI information whether HDCP-key is valid
7: Digital signal quality ATSC		Digital signal level
8: NVM-naming	PANEL_LPL_42_WX5	Contents per Panel-type

About error code,Please refer to the table below.

Error code	Event
0x01	Audio decoder Error
0x02	IIC bus error
0x03	Tuner error
0x04	NVRAM Error
0x05	Scaler Chip error

5.2 Factory Mode

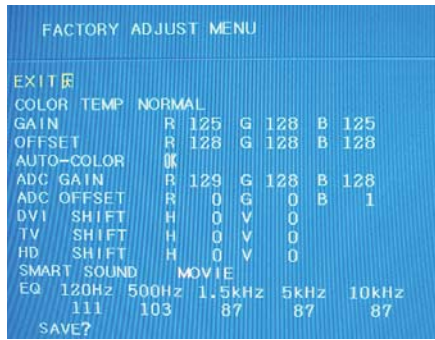
It can enter Factory Mode

1. Press "Menu" in normal operation mode to enter OSD.
2. Press "062596+Menu" on the button (RC) remote control in OSD.
3. Press "Menu" again. The screen will appear "FAC" in top right corner.

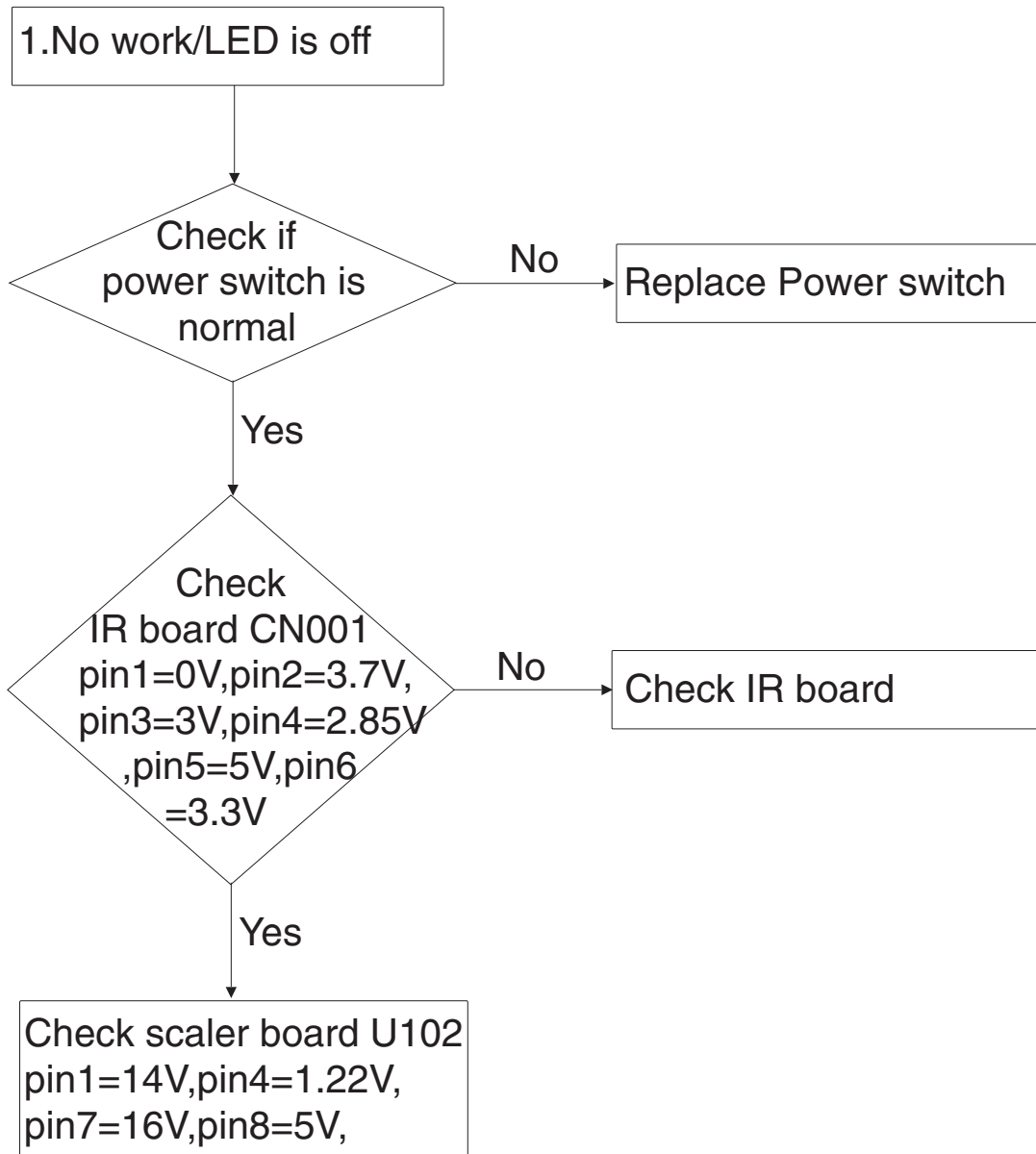
↑, ↓: Move and change value

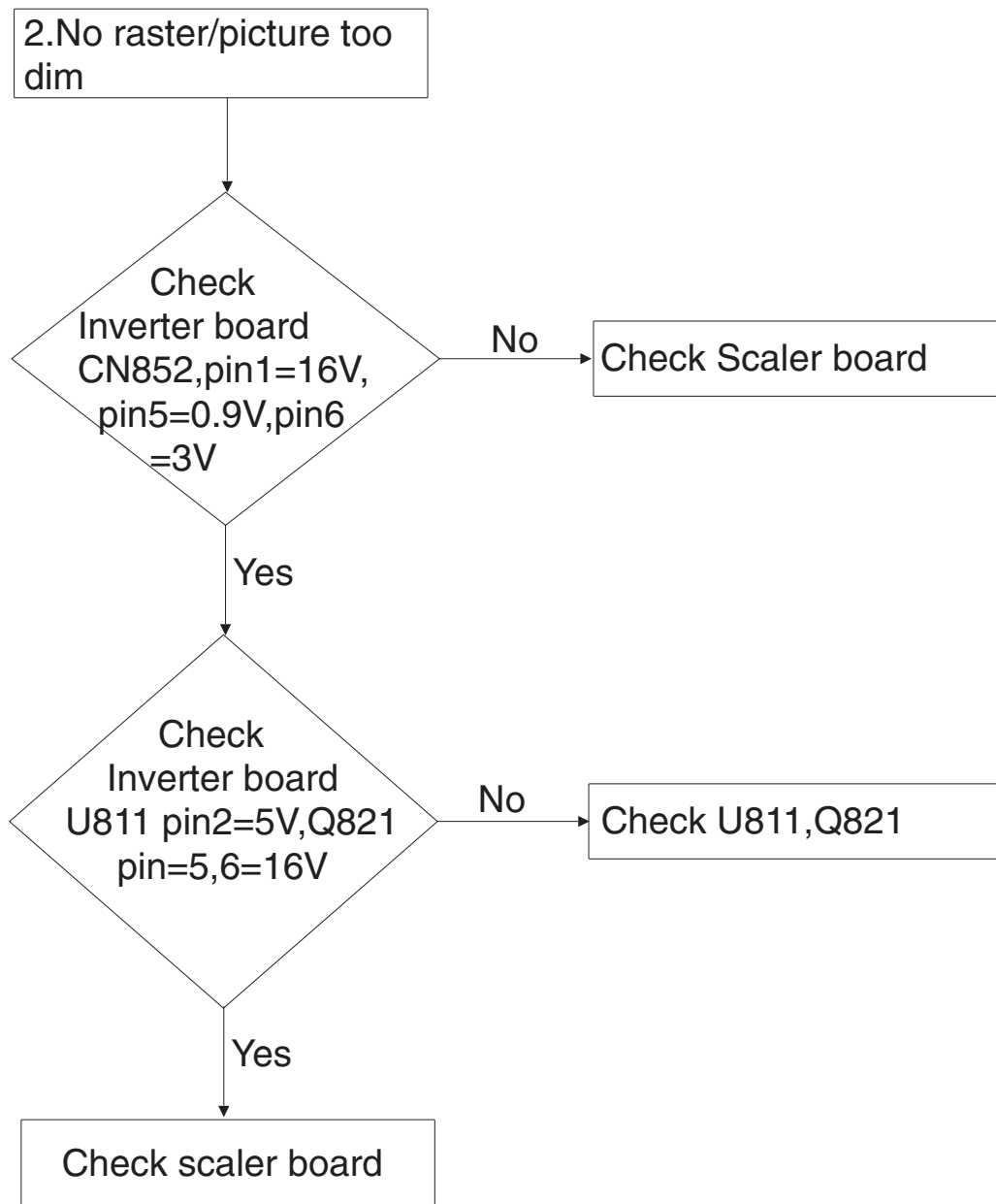
→: selected

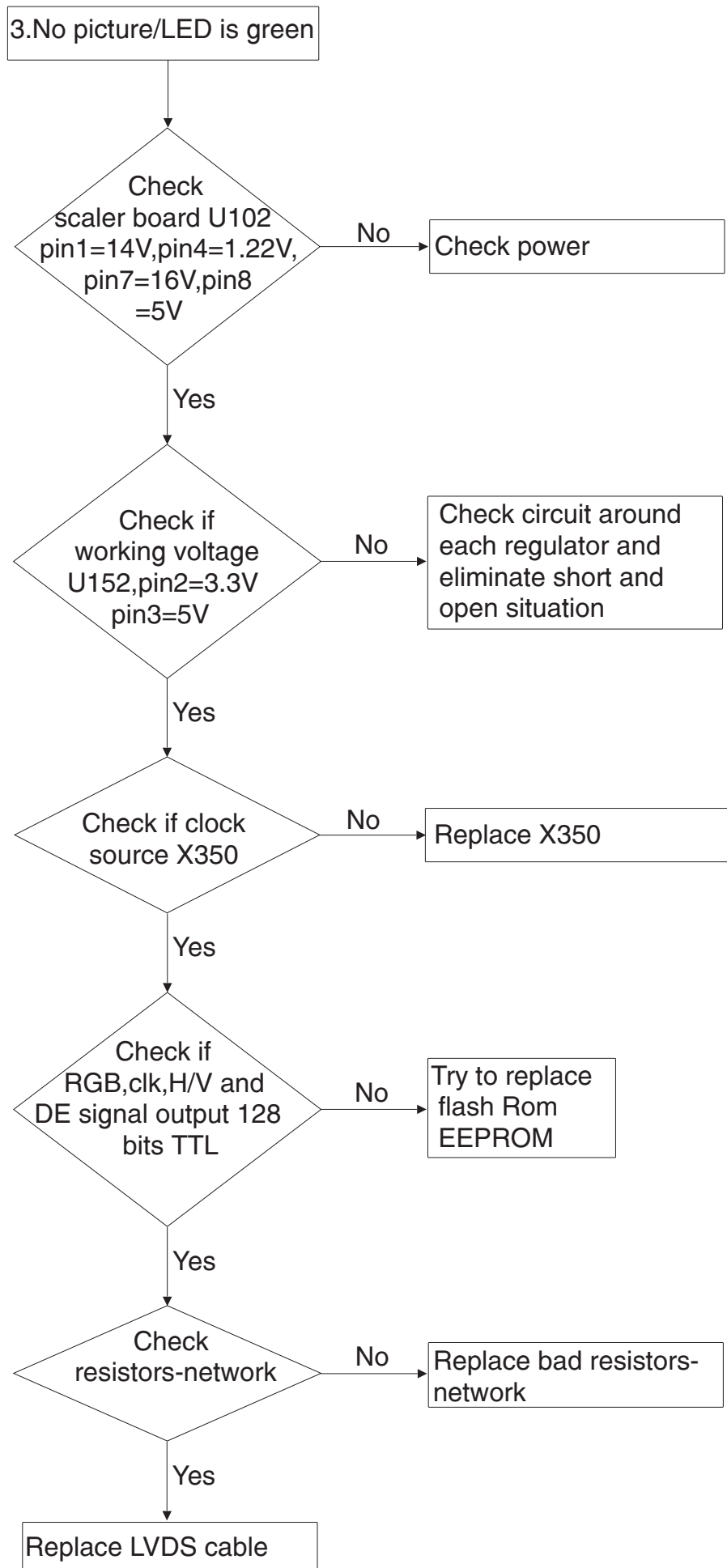
Press **MENU** or →: key to activate OK, SAVE, and EXIT.

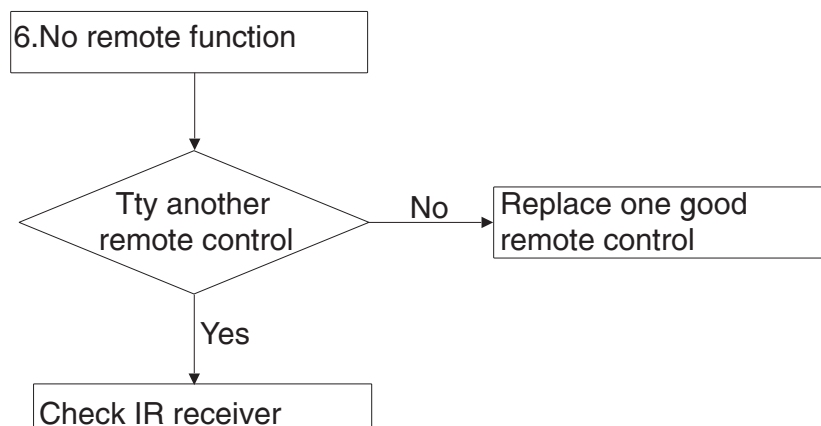
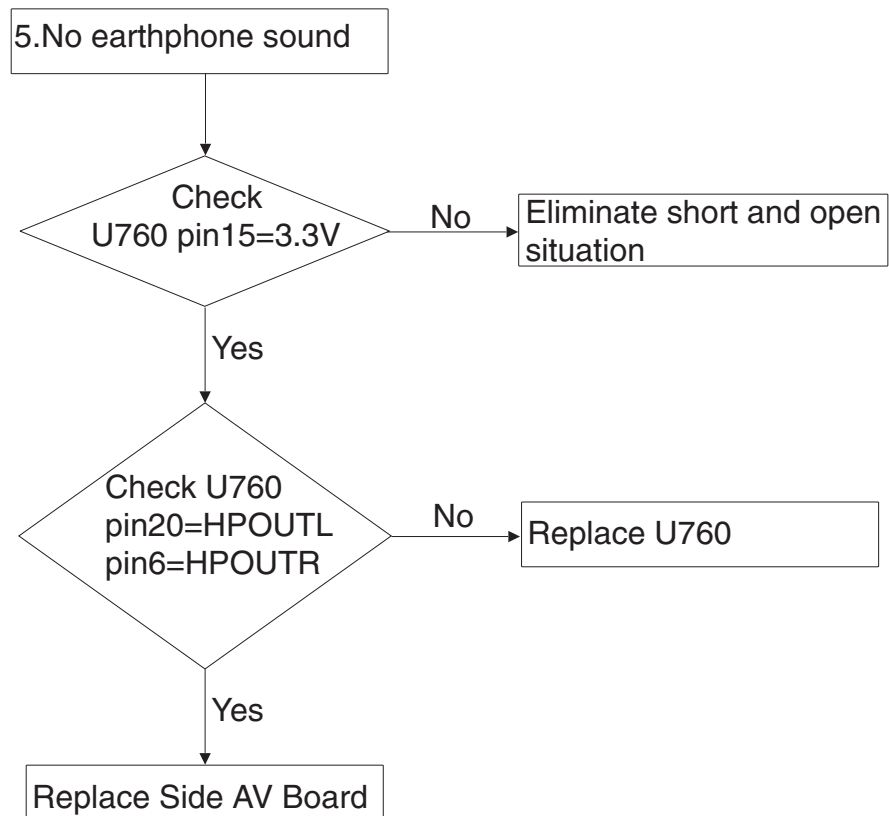
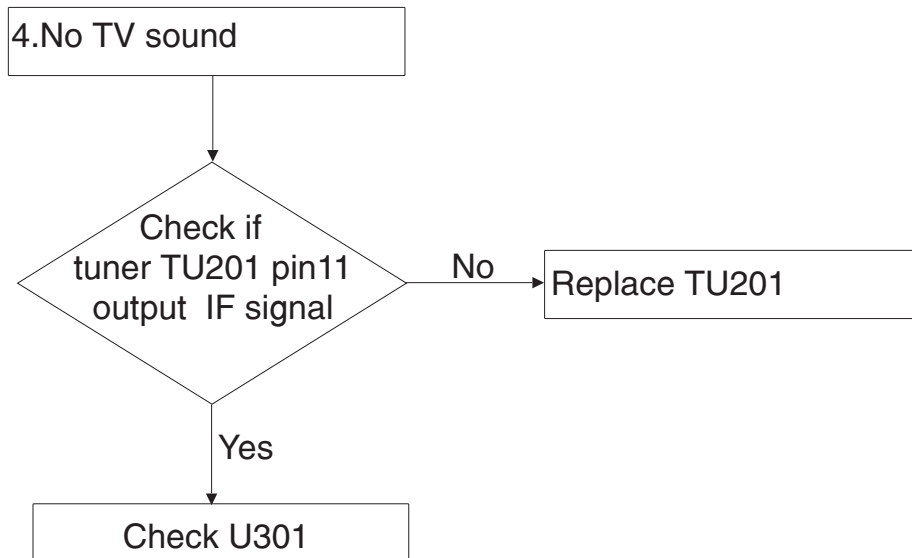


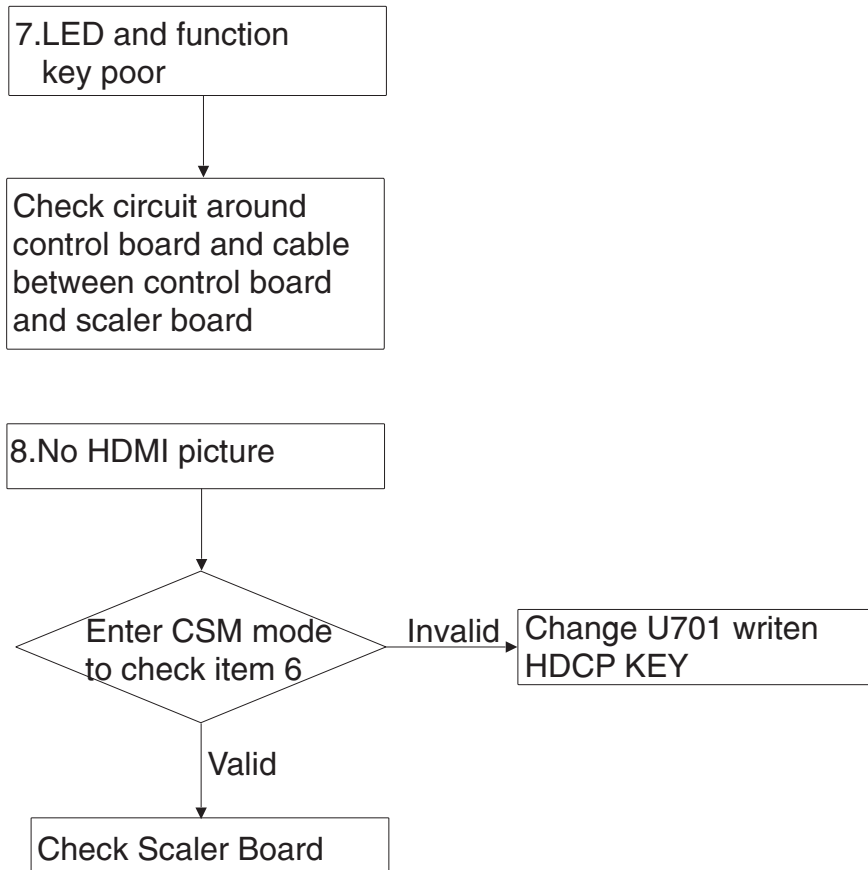
5.3 Repair Flow Chart











6. Block Diagram

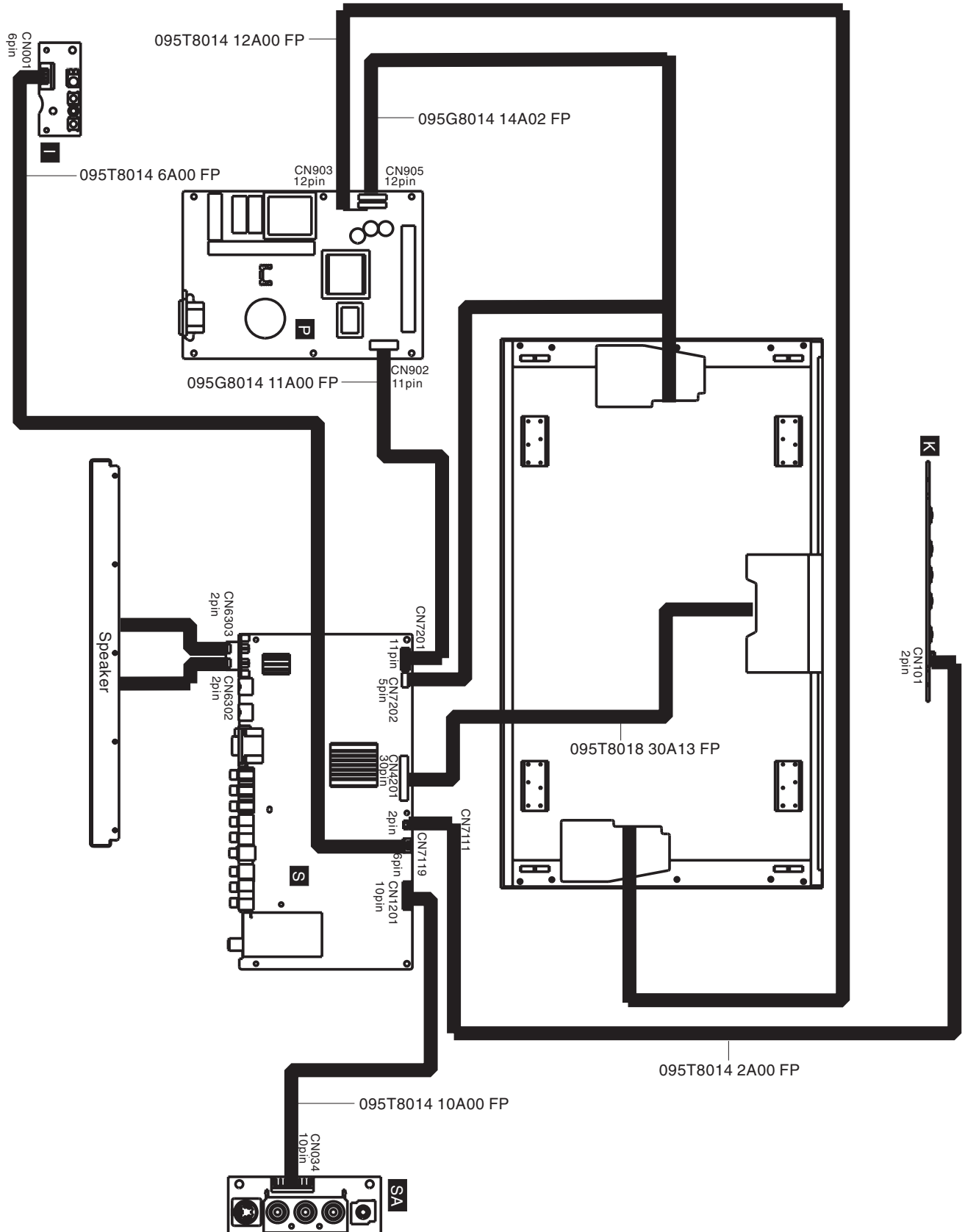
Index of this chapter:

6.1 Wiring Diagram

6.2 Block Diagram

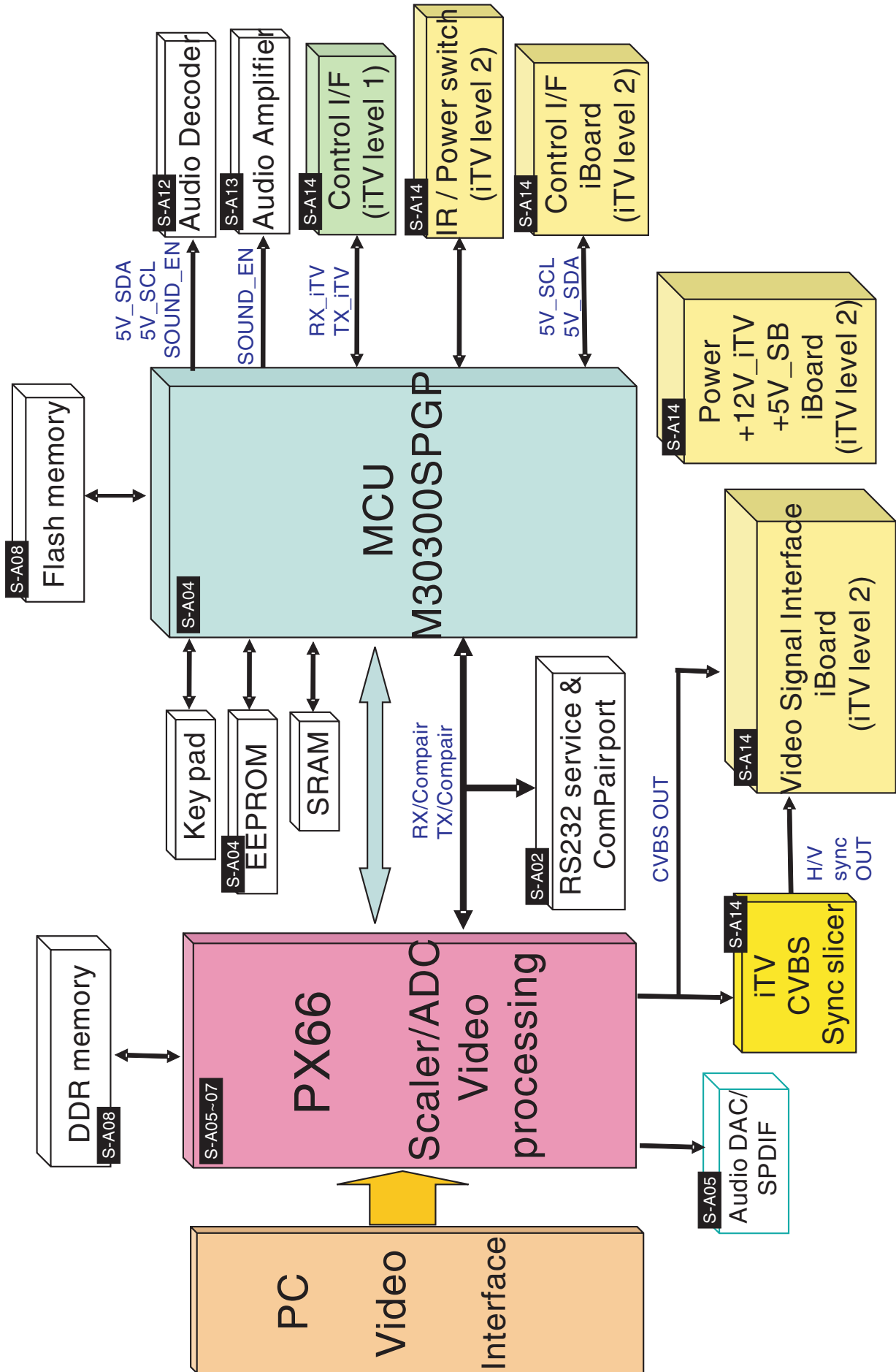
6.1 Wiring Diagram

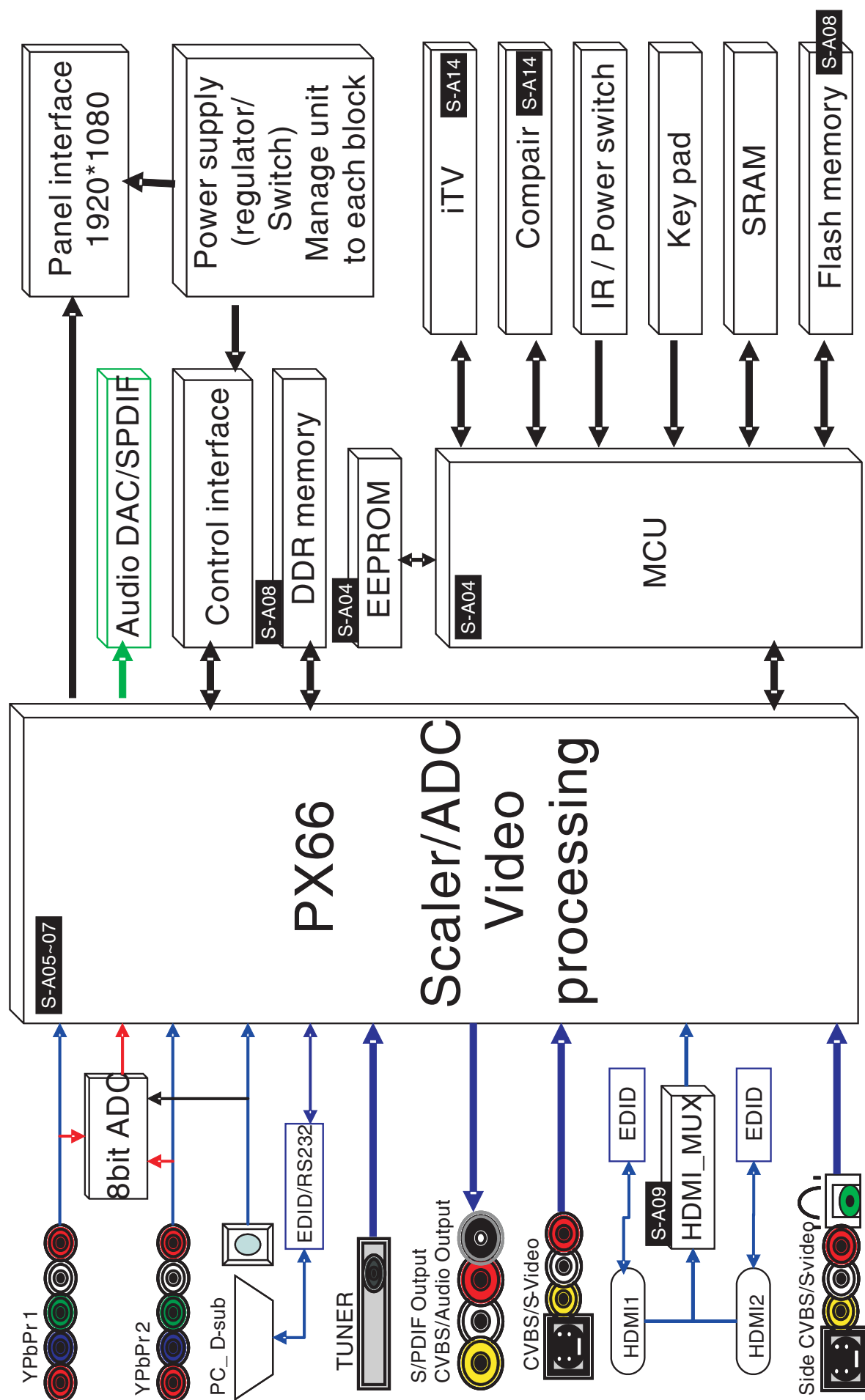
42TA2800 Wiring Diagram



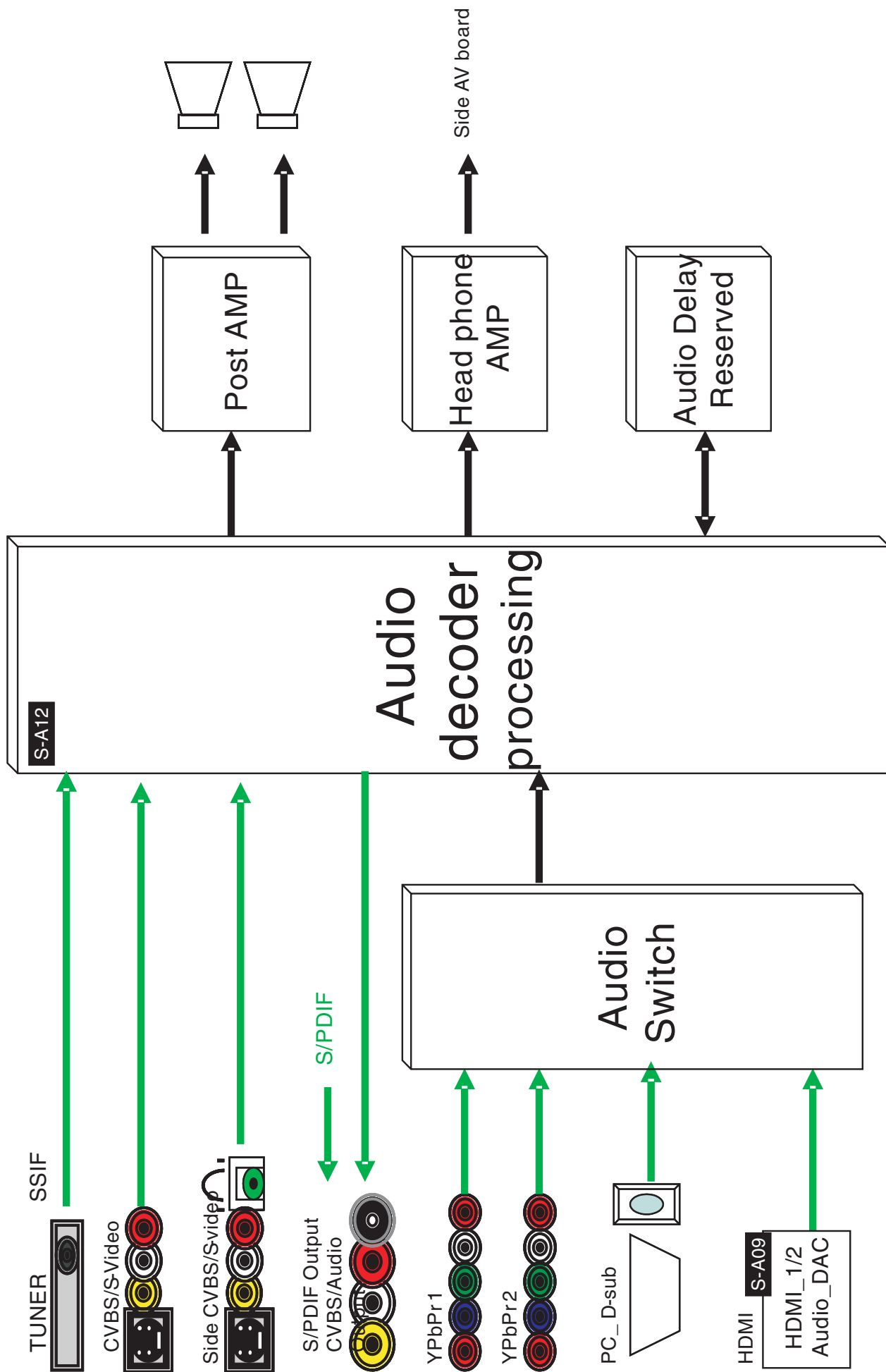
6.2 Block Diagram

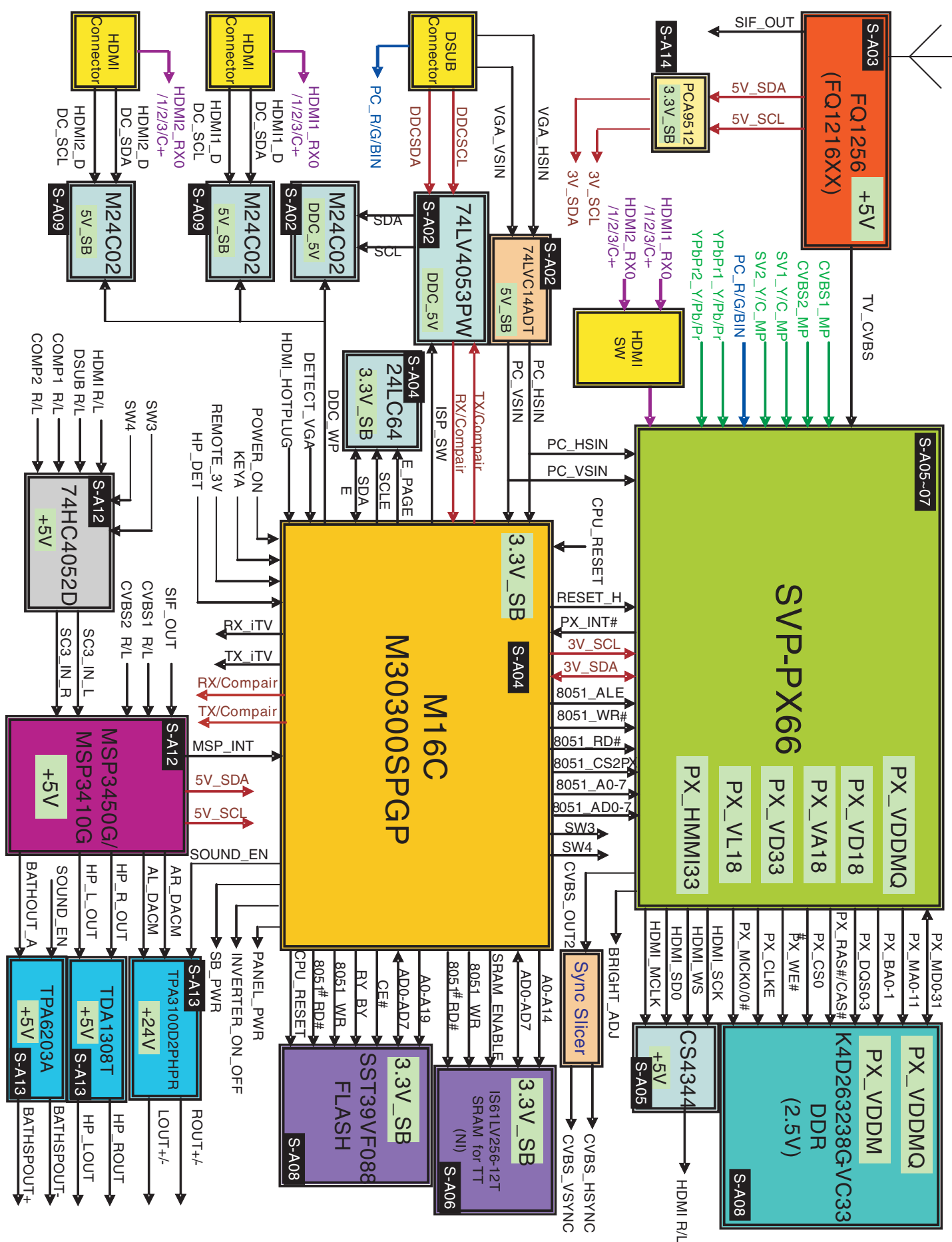
Scaler board (MCU section) Block diagram



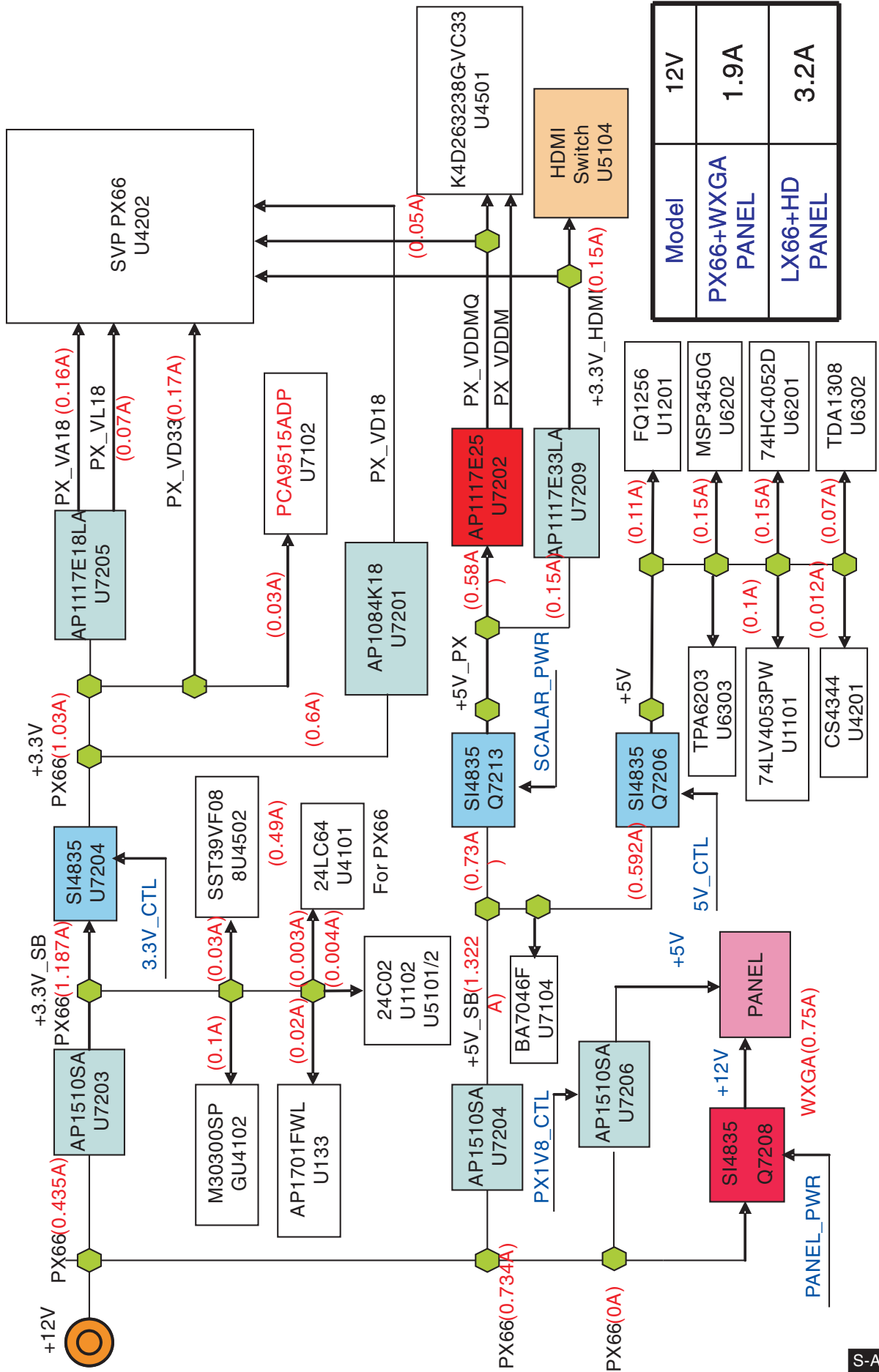


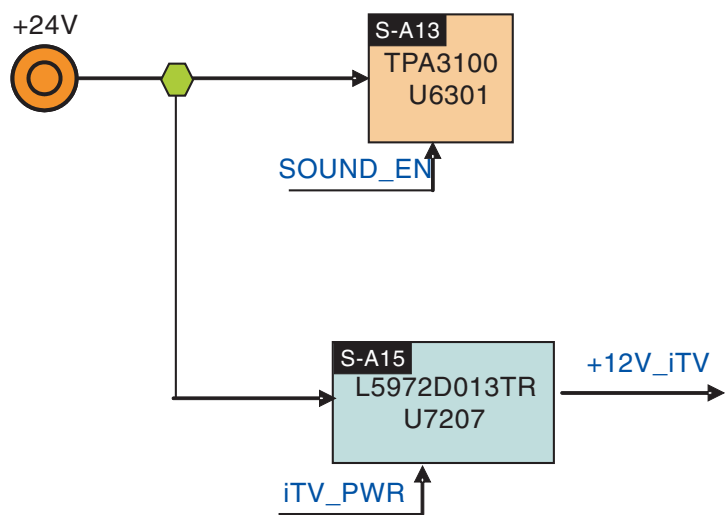
Scaler board (Audio section) Block diagram





Power Management





Scaler Board Schematic Diagram - Contents

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CONTENTS

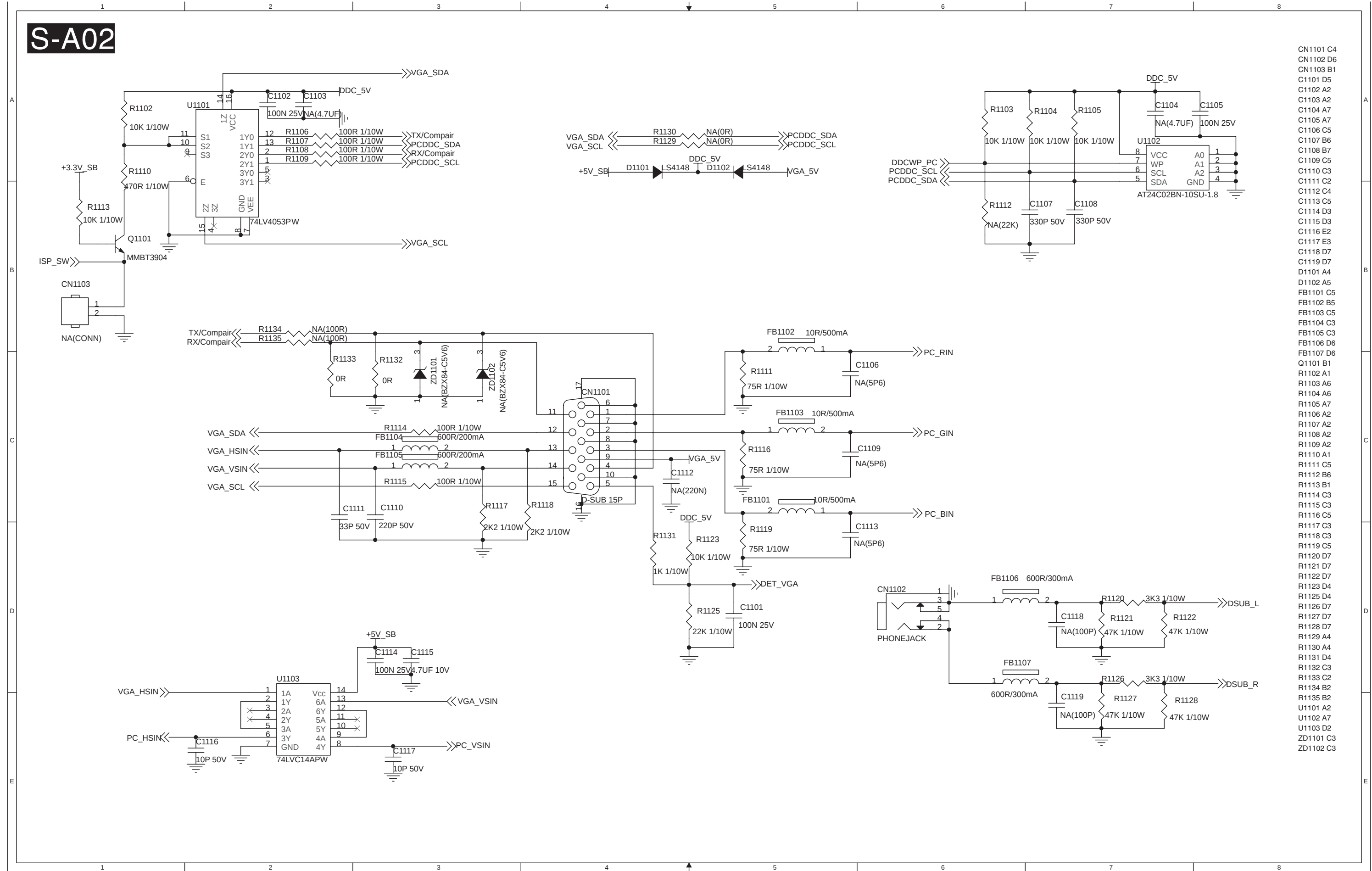
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02. Tuner & Input	2
03. CPU	3
04.SVP_LX66-1	4
05.SVP_LX66-2	5
06.SVP_LX66-3	6
07.DDRRAM & Flash	7
08.HDMI	8
09.MST_ADC	9
10.Sound Delay	10
11.AUDIO DECODER	11
12.Audio_AMP	12
13.iTV & Compair & I2C	13
14.Power	14

REVISION HISTORY

Date	Author	Ver	Comments

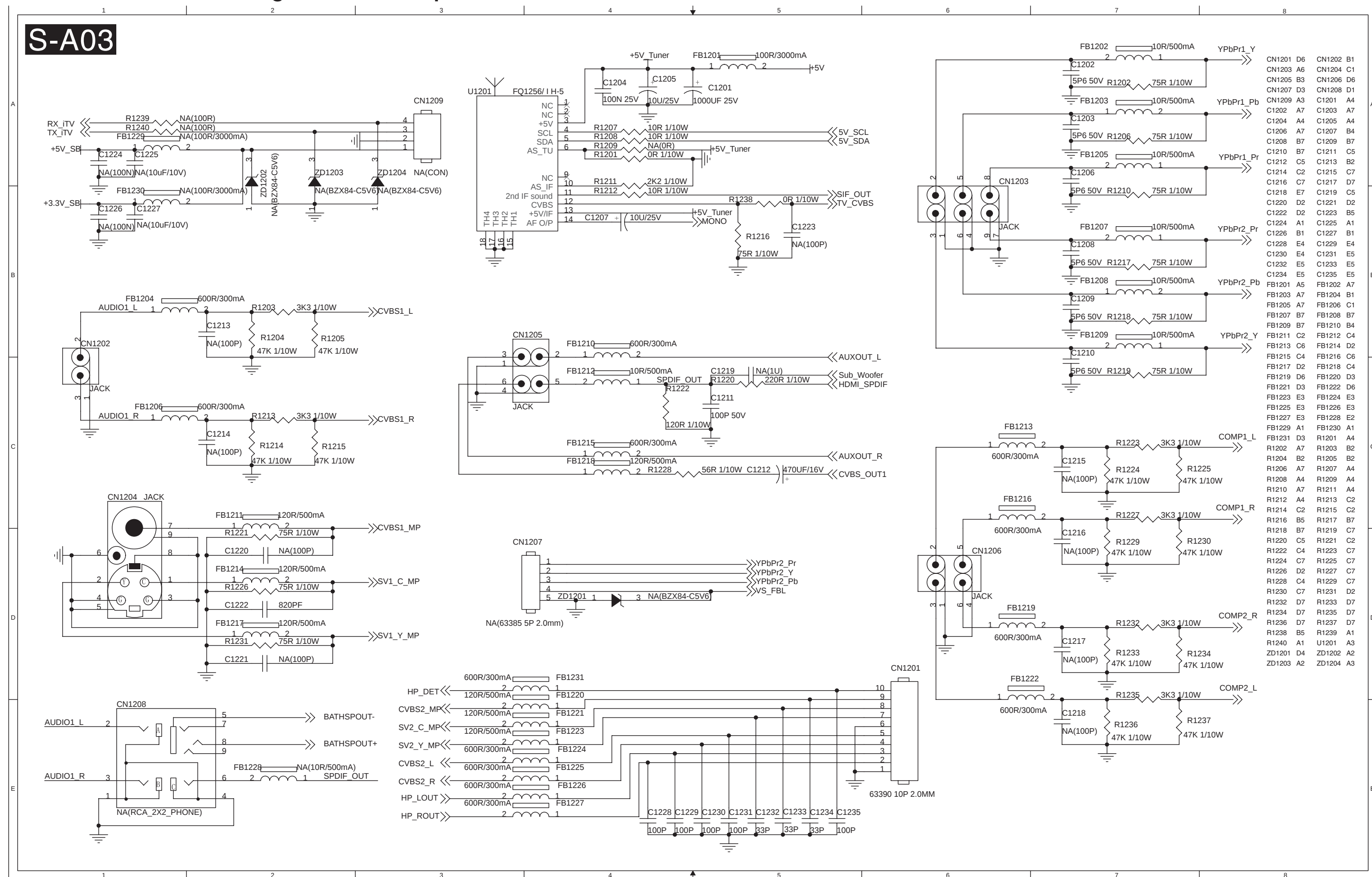
Approval	Position	Signature	Date

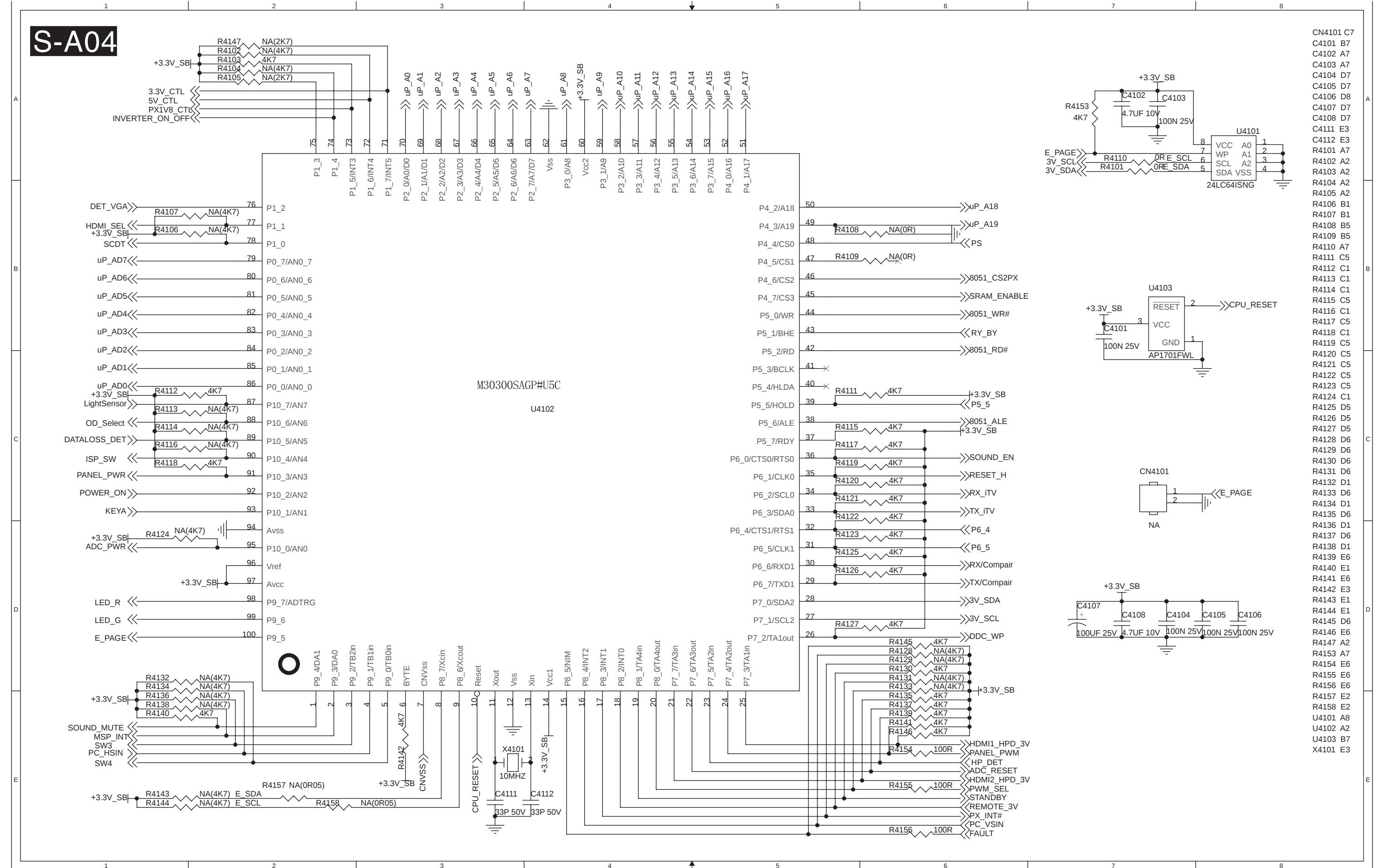
Scaler Board Schematic Diagram - D-SUB



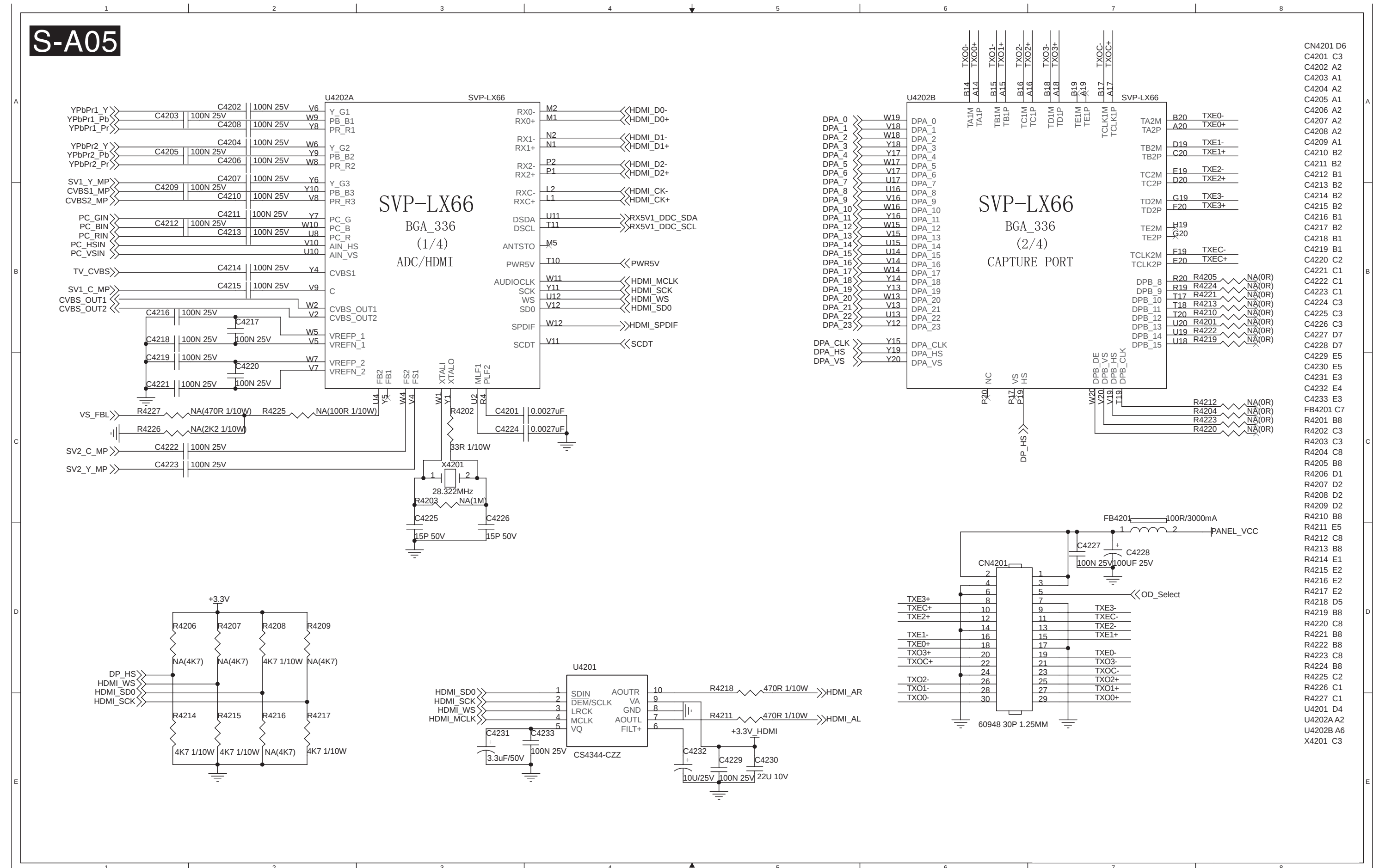
7. Circuit Diagrams and PWB Layouts

Scaler Board Schematic Diagram - Tuner & Input

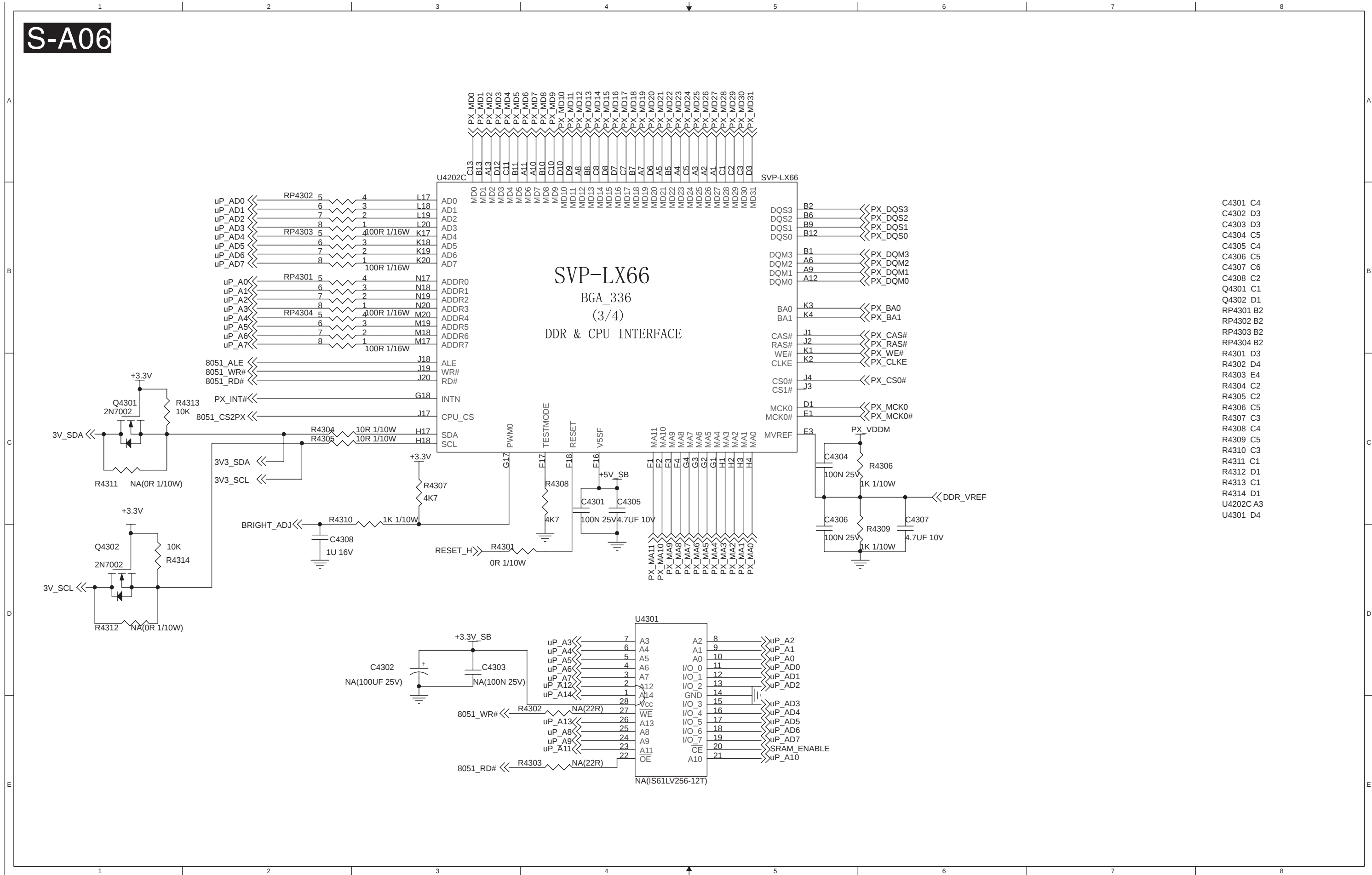




Scaler Board Schematic Diagram - SVP_LX66-1

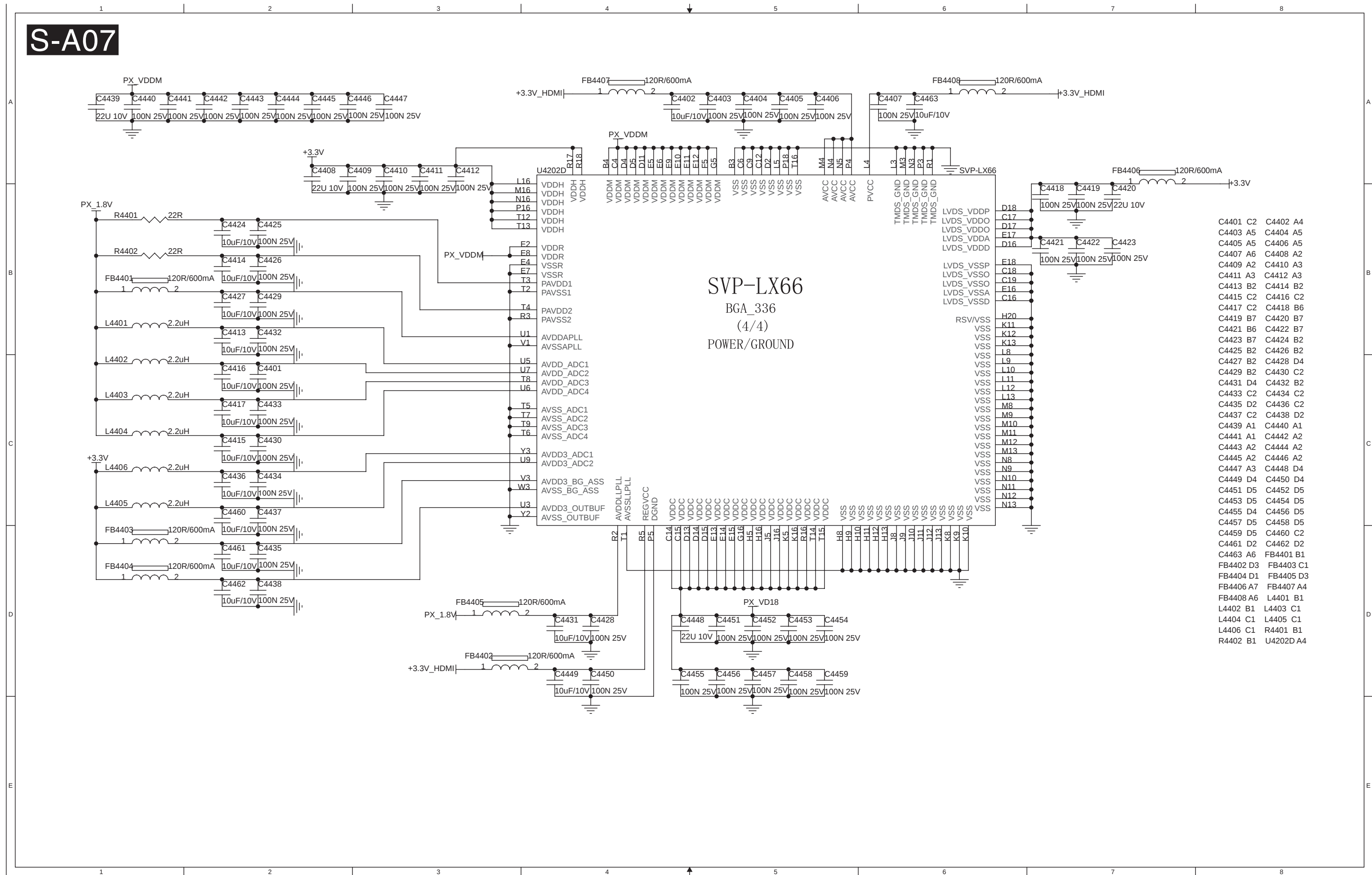


Scaler Board Schematic Diagram - SVP_LX66-2

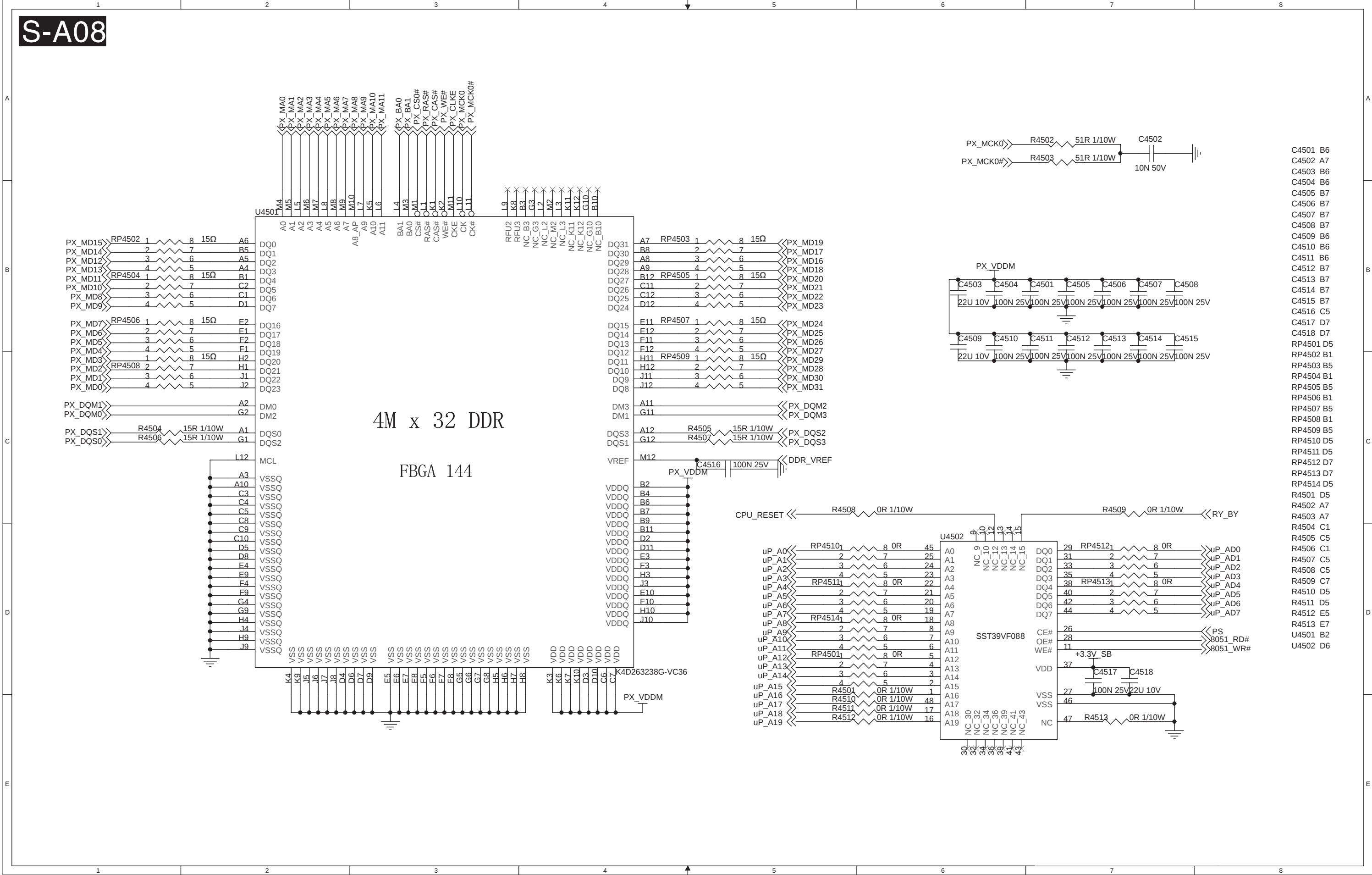


7. Circuit Diagrams and PWB Layouts

Scaler Board Schematic Diagram - SVP_LX66-3

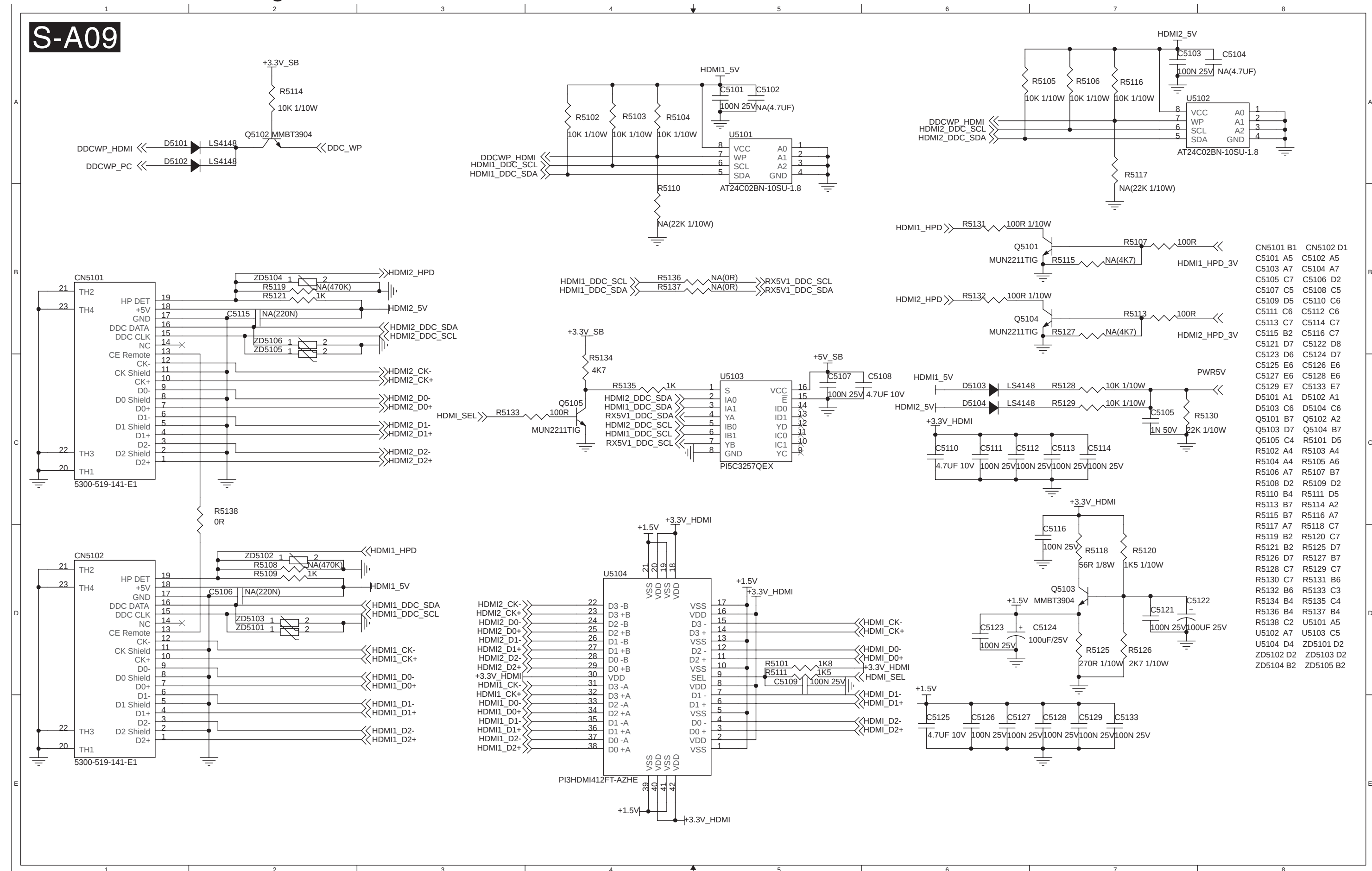


Scaler Board Schematic Diagram - DDRRAM & Flash

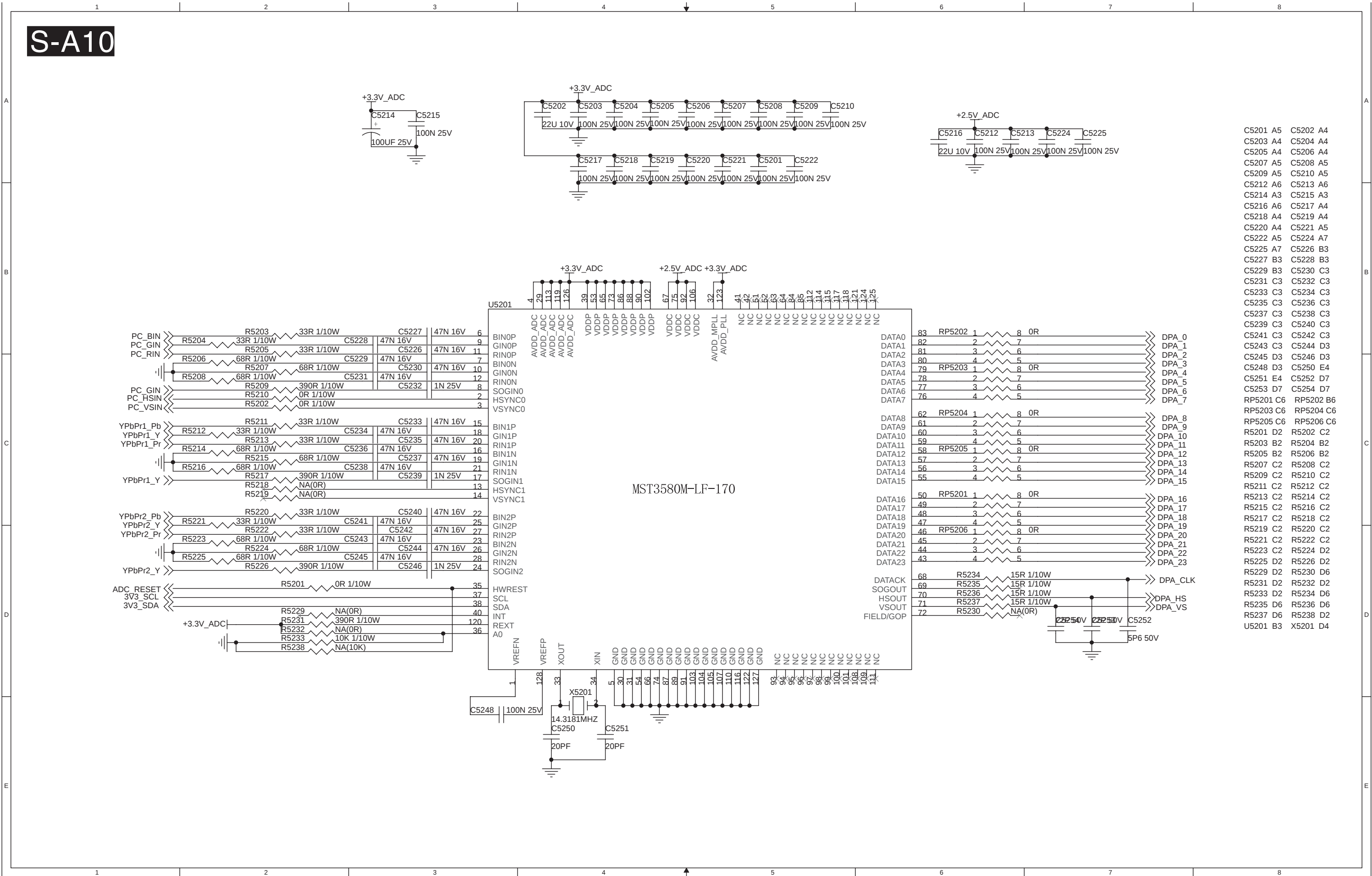


7. Circuit Diagrams and PWB Layouts

Scaler Board Schematic Diagram - HDMI

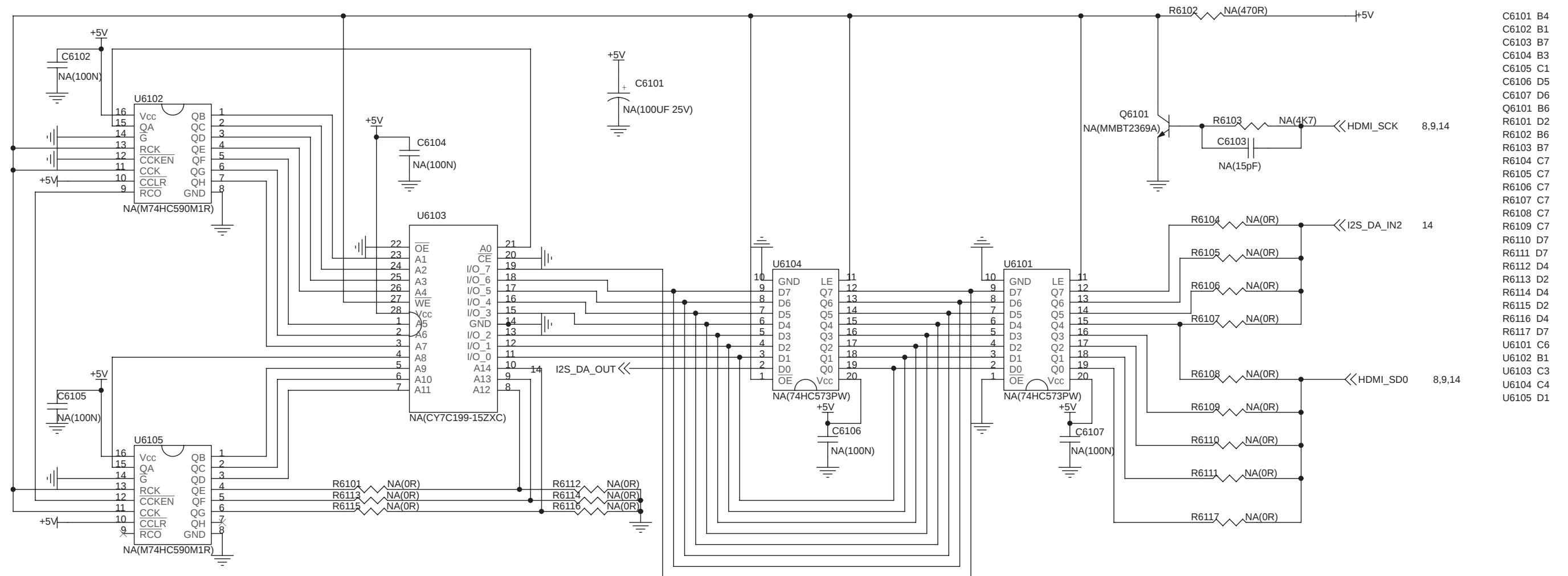


Scaler Board Schematic Diagram - MST_ADC

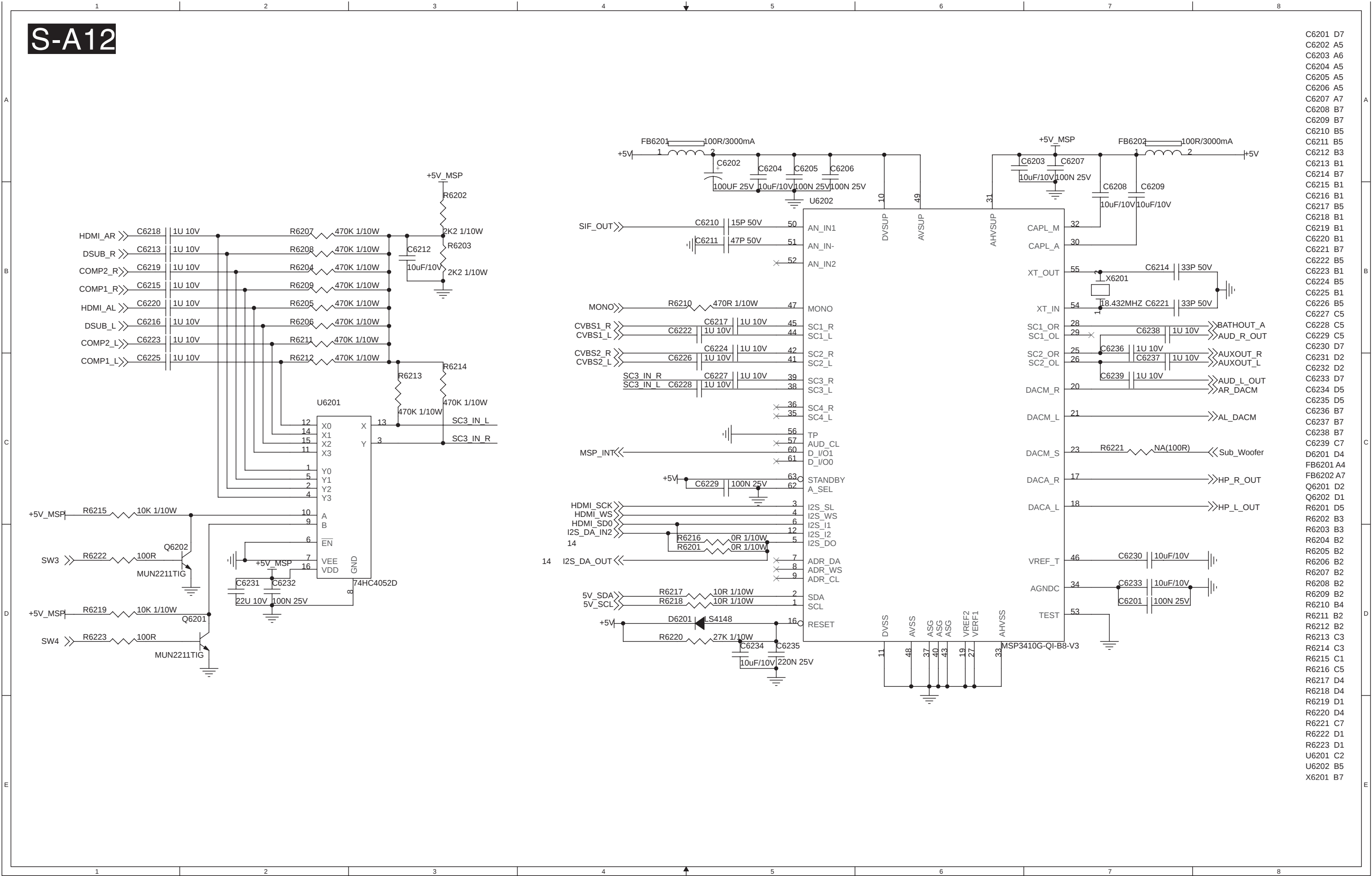


Scaler Board Schematic Diagram - Sound Delay

S-A11

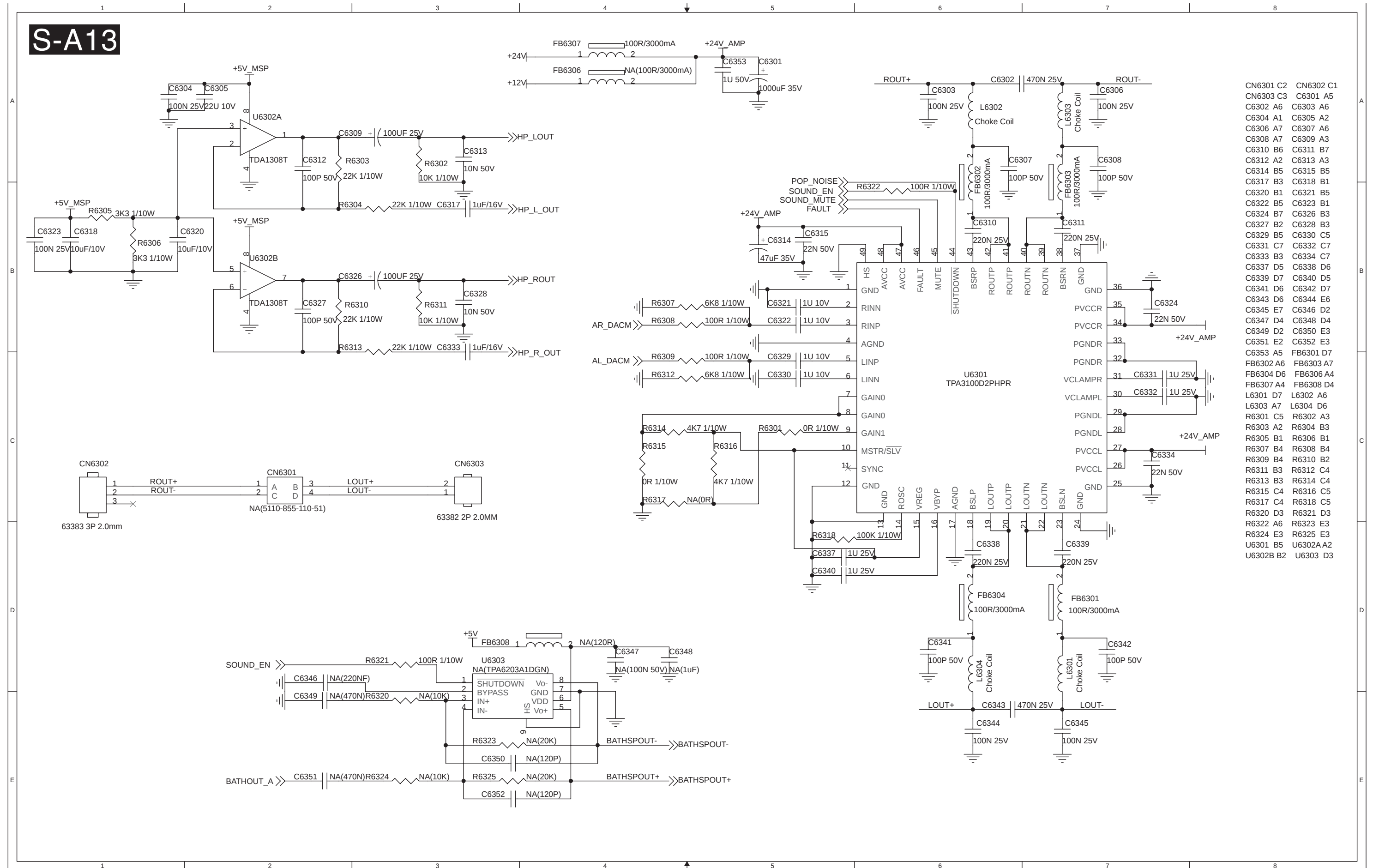


Scaler Board Schematic Diagram - AUDIO DECODER

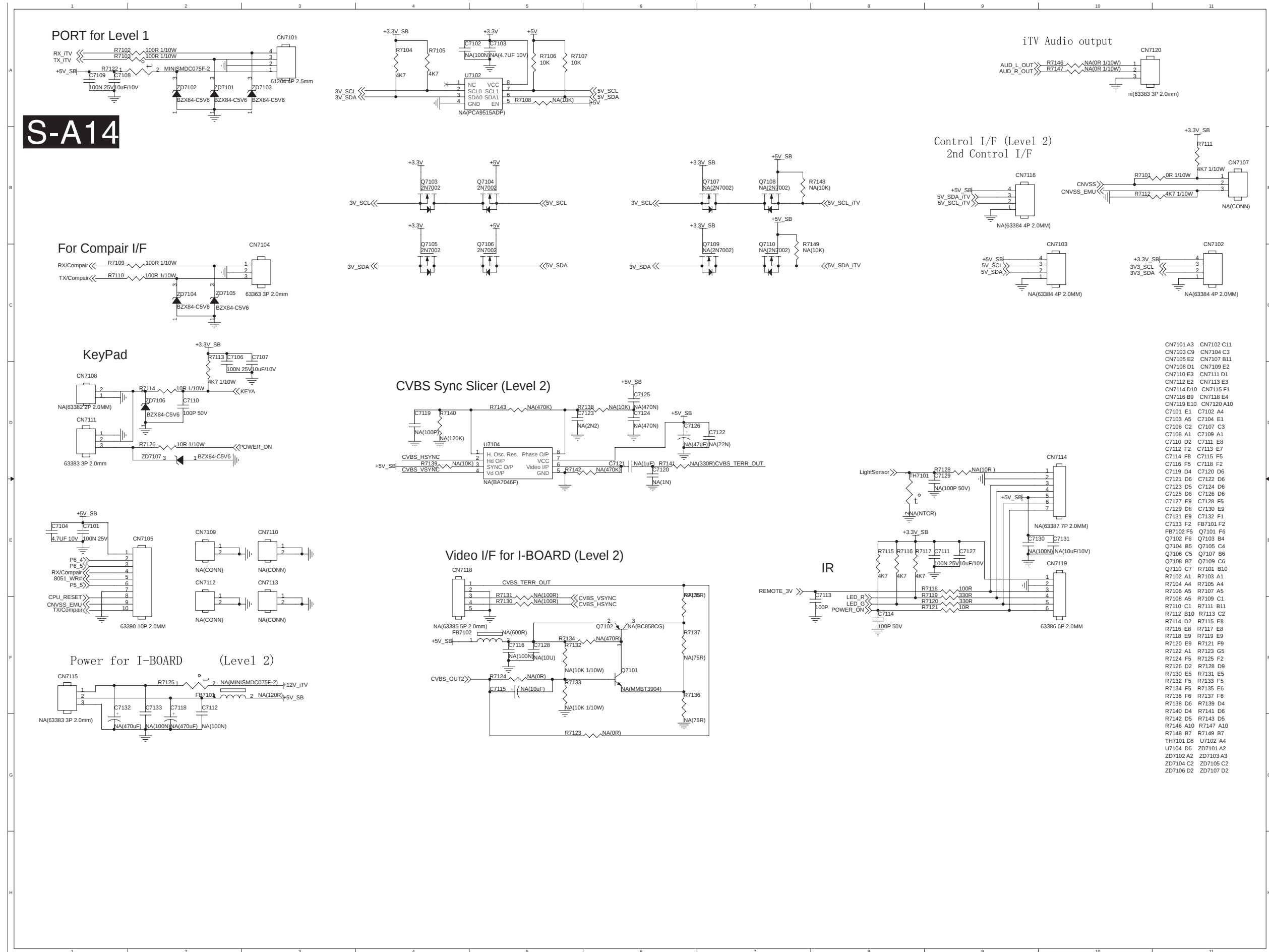


7. Circuit Diagrams and PWB Layouts

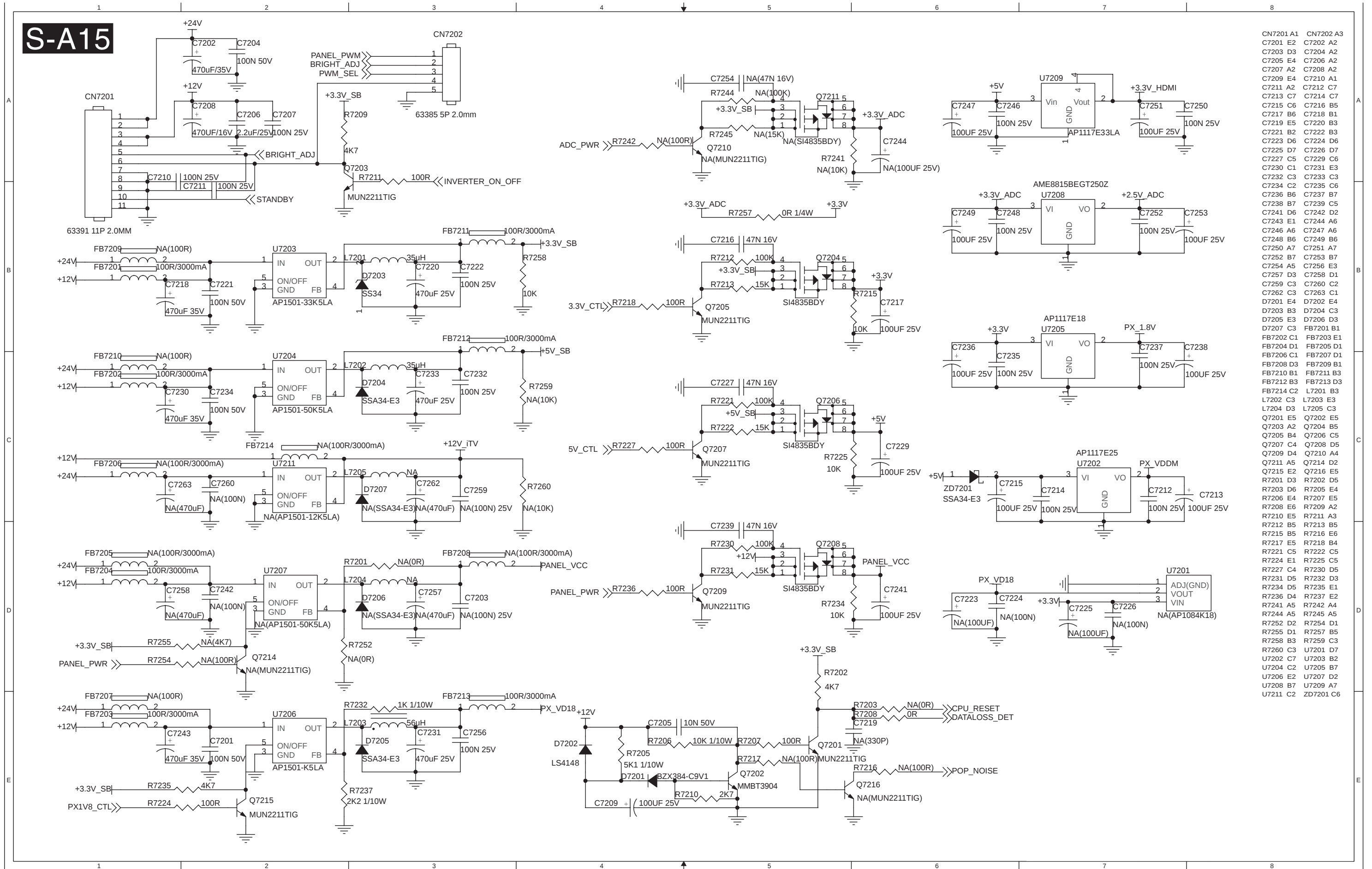
Scaler Board Schematic Diagram - Audio_AMP



S-A14



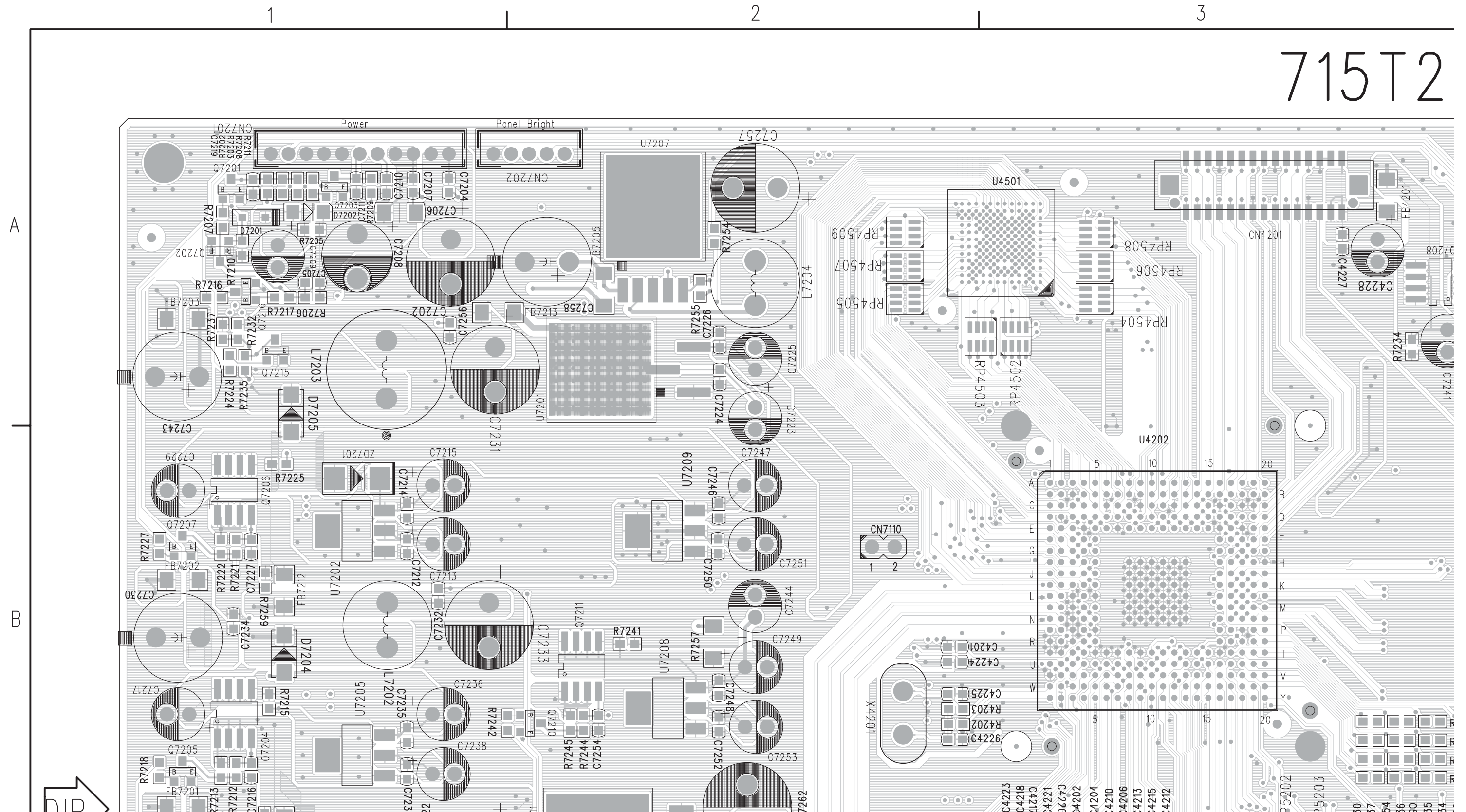
Scaler Board Schematic Diagram - Power



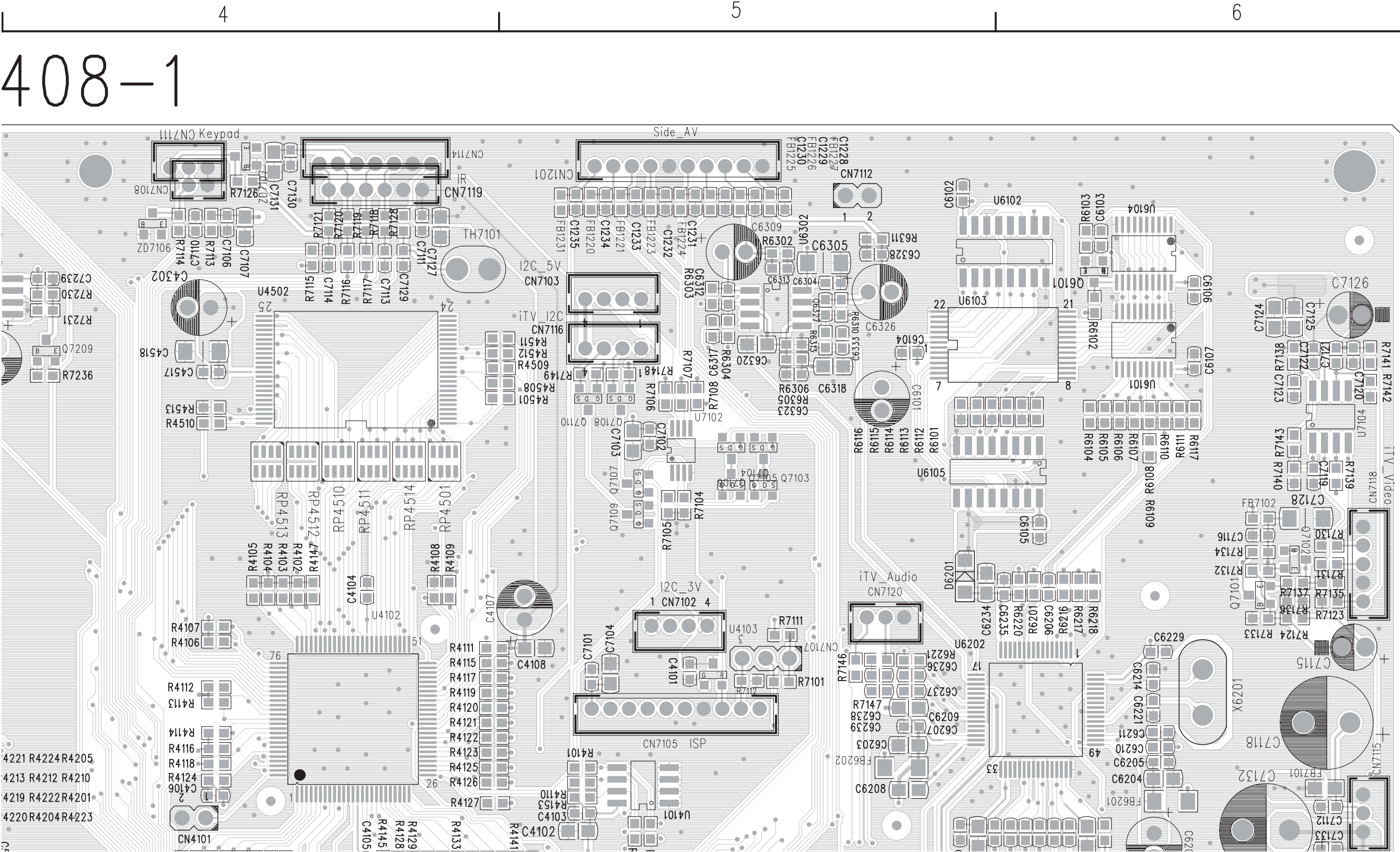
Scaler Board Layout(Top Side)

C1101	D2	C1220	D4	C4205	C3	C4518	A4	C5242	C3	C6211	B6	C6239	B5	C6333	A5	C7111	A4	C7209	A1	C7238	B1	CN1207	D3	CN7201	A1	FB1214	D4	FB7201	B1	Q7106	A5	R1123	D2	R1219	D3	R4109	B4	R4137	C4	R4222	B3	R5203	C3	R5233	C4	R6206	C5	R6311	A5	R7115	A4	R7147	B5	R7236	A4	RP5204	C4
C1106	D3	C1221	D4	C4206	C3	C5107	D2	C5243	C3	C6212	C5	C6301	C1	C6334	C1	C7112	B6	C7210	A1	C7239	A4	CN1208	D5	CN7202	A2	FB1215	D5	FB7202	B1	Q7107	B5	R1125	D2	R1220	D5	R4110	B5	R4138	C4	R4223	B3	R5204	C3	R5234	C4	R6207	C5	R6312	D1	R7116	A4	R7148	A5	R7237	A1	RP5205	C4
C1109	D3	C1222	D4	C4207	C3	C5108	D2	C5244	C3	C6213	C5	C6302	D1	C6337	C1	C7113	A4	C7211	A1	C7241	A1	CN1209	C5	D201	A1	FB1216	D4	FB7203	A1	Q7108	A5	R1126	D2	R1221	D4	R4111	B4	R4139	C5	R4224	B3	R5205	C3	R5235	C4	R6208	C5	R6313	A5	R7117	A4	R7149	A5	R7241	B2	TH7101	A4
C1110	D2	C1223	C5	C4208	C3	C5116	C2	C5245	C4	C6214	B6	C6303	D1	C6338	C1	C7114	A4	C7212	B1	C7243	A1	CN4101	B4	D7201	A1	FB1217	D4	FB7205	A2	Q7109	B5	R1127	D2	R1222	D5	R4112	B4	R4140	C4	R4225	C3	R5206	C3	R5236	C3	R6209	C5	R6314	C1	R7118	A4	R7202	A1	R7242	B2	TH7101	A4
C1111	D2	C1224	C5	C4209	C3	C5121	D2	C5246	C3	C6215	C5	C6304	A5	C6339	C1	C7115	B6	C7213	B1	C7244	B2	CN4201	A3	D7202	A1	FB1218	D5	FB7209	C1	Q7110	A5	R1128	D2	R1223	D4	R4113	B4	R4141	C5	R4226	C2	R5207	C3	R5237	C3	R6210	B6	R6315	C1	R7119	A4	R7203	A1	R7244	B2	U1201	D6
C1112	D2	C1225	C5	C4210	C3	C5122	C2	C5248	C3	C6216	C5	C6305	A5	C6340	C1	C7116	B6	C7214	B1	C7245	B2	CN5101	D2	D7203	C1	FB1219	D4	FB7211	C1	Q7201	A1	R1131	D2	R1224	D4	R4114	B4	R4142	C4	R4227	C3	R5208	C3	R5238	C4	R6211	C5	R6316	C1	R7120	A4	R7205	A1	R7245	B2	U4101	B5
C1113	D3	C1226	A5	C4211	C3	C5123	D2	C5250	C4	C6217	B6	C6306	D1	C6341	C1	C7117	B6	C7215	B1	C7246	B2	CN5102	D2	D7204	B1	FB1220	A5	FB7212	B1	Q7202	A1	R1132	D3	R1225	D4	R4115	B4	R4143	C4	R4228	A5	R5209	C3	R5239	A1	R6212	C5	R6317	C1	R7121	A4	R7206	A1	R7246	A2	U4102	B4
C1118	D2	C1229	A5	C4212	C3	C5124	D2	C5251	C4	C6218	C5	C6307	D1	C6342	C1	C7118	B6	C7216	B1	C7247	B2	CN6301	D1	D7205	A1	FB1221	A5	FB7213	A1	Q7203	A1	R1133	D3	R1226	D4	R4116	B4	R4144	C4	R4229	A5	R5210	C3	R5240	A1	R6213	C5	R6318	C1	R7122	D3	R7207	A1	R7255	A2	U4103	B5
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C1204	C5	C1234	A5	C4217	C3	C5226	C3	C6102	A5	C6223	C5	C6314	D1	C6347	D5	C7124	A6	C7221	C1	C7253	B2	CN7103	A5	FB1105	D2	FB1226	A5	L7201	C1	Q7208	A3	R1203	D5	R1231	D4	R4121	B4	R4154	C5	R4234	A5	R5215	C3	R6107	A6	R6218	B6	R6324	D5	R7127	B1	RP4502	A3	U5104	D2		
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C1207	C5	C4102	B5	C4220	C3	C5229	C3	C6105	B6	C6226	B6	C6318	A5	C6350	D5	C7127	A4	C7224	A2	C7257	A2	CN7107	B5	FB1108	D2	FB1229	A1	L7204	A2	Q7211	B2	R1206	D4	R1234	D4	R4124	B4	R4157	C5	R4237	A5	R5218	C3	R6110	A6	R6221	B5	R7102	D3	R7132	B6	R7216	A1	RP4505	A2	U6102	A5
C1208	D4	C4103	B5	C4221	C3	C5230	C3	C6106	A6	C6227	B6	C6320	A5	C6351	D5	C7128	B6	C7225	A2	C7258	A2	CN7108	A4	FB1202	D3	FB4201	A3	L7205	C2	Q7215	A1	R1207	D5	R1235	D4	R4125	B4	R4158	B5	R4238	A5	R5219	D2	R6111	A6	R6222	C5	R7103	D3	R7133	B6	R7217	A1	RP4506	A3	U6103	A6
C1209	D3	C4104	B4	C4222	C3	C5231	C3	C6107	A6	C6228	B6	C6321	D1	C6352	D5	C7129	A4	C7226	A2	C7262	B2	CN7109	C2	FB1203	D3	FB6201	B6	Q5101	D2	Q7216	A1	R1208	D5	R1236	D4	R4126	B4	R4159	B5	R4239	A5	R5220	C3	R6112	A6	R6223	C5	R7104	B5	R7134	B6	R7218	B1	RP4507	A2	U6104	A6
C1210	D3	C4105	C4	C4223	C3	C5232	C3	C6201	B6	C6229	B6	C6322	D1	C6353	C1	C7130	A4	C7227	B1	C7263	C2	CN7110	B2	FB1204	D5	FB6202	B5	Q5103	D2	R1111	D3	R1209	D5	R1237	D4	R4127	B4	R4202	B2	R4230	A5	R5221	C3	R6113	A6	R6301	C1	R7105	B5	R7135	B6	R7221	B1	RP4508	A3	U6105	B6
C1211	D5	C4106	B4	C4224	B2	C5233	C3	C6202	B6	C6230	B6	C6323	A5	C7101	B5	C7131	A4	C7228	B1	CN1101	D3	CN7111	A4	FB1205	D4	FB6301	C1	Q5104	D2	R1112	D1	R1210	D4	R1238	C5	R4128	C4	R4203	B2	R4231	A5	R5222	C3	R6114	A5	R6302	A5	R7106	A5	R7136	B6	R7222	B1	RP4509	A2	U6201	C5
C1212	D5	C4107	B5	C4225	B2	C5234	C3	C6203	B5	C6231	C5	C6324	D1	C7102	A5	C7132	B6	C7229	C1	CN1102	D2	CN7112	A5	FB1206	D5	FB6302	D1	Q6101	A6	R1115	D2	R1211	C5	R4101	B5	R4129	C4	R4204	B3	R4232	D2	R5223	C3	R6115	A5	R6303	A5	R7107	A5	R7137	B6	R7223	A1	RP4510	B4	U6202	B6
C1213	D5	C4108	B5	C4226	B2	C5235	C3	C6204	B6	C6232	C5	C6325	A5	C7103	A5	C7133	C6	C7230	A1	CN1103	D3	CN7113	D5	FB1207	D4	FB6303	D1	Q6201	C5	R1116	D3	R1212	C5	R4102	B4	R4130	C4	R4205	B3	R4233	D2	R5224	C3	R6116	A5	R6304	A5	R7108	A5	R7138	B6	R7224	B1	RP4511	B4	U6301	D1
C1214	D5	C4109	B5	C4227	A3	C5236	C3	C6205	B6	C6233	B6	C6326	A5	C7104	A5	C7134	B5	C7231	A1	CN1104	A5	CN7114	A4	FB1208	D3	FB6304	C1	Q6202	C5	R1117	D2	R1213	C5	R4103	B4	R4131	C4	R4206	B3	R4234	D2	R5225	C3	R6117	A6	R6305	A5	R7109	D3	R7139	B6	R7225	B1	RP4512	B4	U6302	A5
C1215	D4	C4110	C4	C4228	A3	C5237	C3	C6206	B6	C6234	B6	C6327	A5	C7105	A4	C7135	A1	C7232	B1	CN1105	D2	CN7115	B6	FB1209	D3	FB6305	C1	Q7101	B6	R1118	D2	R1214	D5	R4104	B4	R4132	C4	R4207	B3	R4235	D2	R5226	C3	R6118	A6	R6306	A5	R7110	D3	R7140	B6	R7226	A1	RP4513	B4	U6303	D5
C1216	D4	C4201	B2	C4231	C4	C5238	C3	C6207	B5	C6235	B6	C6328	D1	C7107	A4	C7204	A1	C7233	B1	CN1203	D3	CN7116	A5	FB1210	D5	FB6307	C1	Q7102	B6	R1119	D3	R1215	D5	R4105	B4	R4133	C3	R4213	B3	R4236	D2	R5227	C3	R6202	C5	R6307	D1	R7111	B5	R7141	A6	R7231	A4	RP4514	B4	U7102	B5
C1217	D4	C4202	C3	C4232	C4	C5239	C3	C6208	B5	C6236	B5	C6330	D1	C7108	D3	C7206	A1	C7235	B1	CN1204	D4	FB1211	B6	FB1211	B6	FB6308	C5	Q7103	B5	R1120	D2	R1216	C5	R4106	B4	R4134	C4	R4219	B3	R4237	D2	R5230	C3	R6203	C5	R6308	D1	R7112	B5	R7142	A6	R7232	A1	RP5201	C4	U7104	A6
C1218	D4	C4203	C3	C4302	A4	C5240	C3	C6209	B5	C6237	B5	C6331	D1	C7109	D3	C7207	A1	C7236	B1	CN1205	D5	CN7118	A4	FB1212	D5	FB6309	C5	Q7104	B5	R1121	D2	R1217	D4	R4107	B4	R4135	C4	R4220	B3	R4238	D2	R5231	C3	R6204	C5	R6309	D1	R7113	A4	R7143	B6	R7233	A1	RP5202	C3	U7201	A2
C1219	D5	C4204	C3	C4517	A4	C5241	C3	C6210	B6	C6238	B5	C6332	C1	C7110	A4	C7208	A1	C7237	B1	CN1206	D4	CN7120	B5	FB1213	D4	FB7102	B6	Q																													

Scaler Board Layout(Top Side Part 1)



Scaler Board Layout(Top Side Part 2)

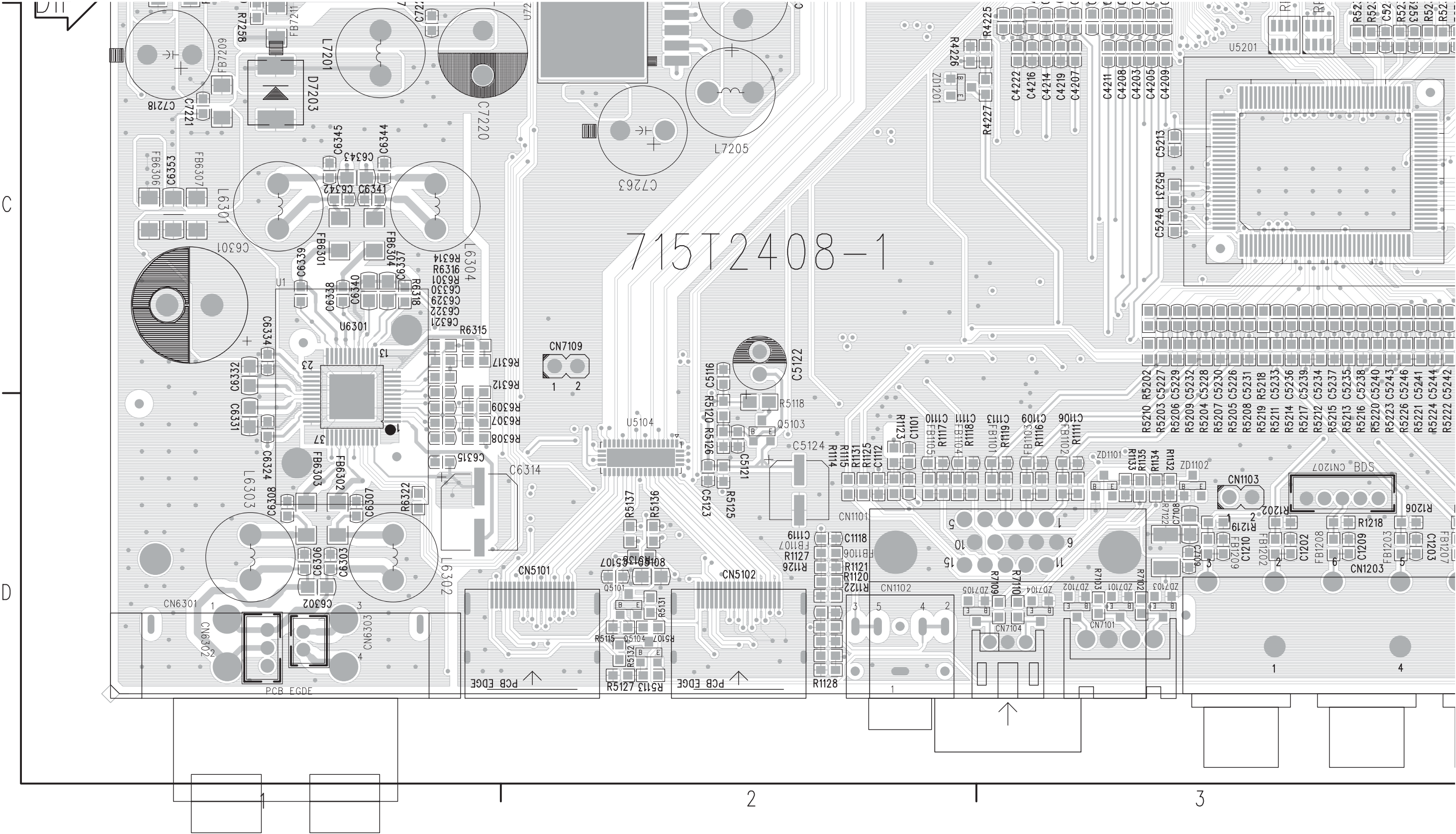


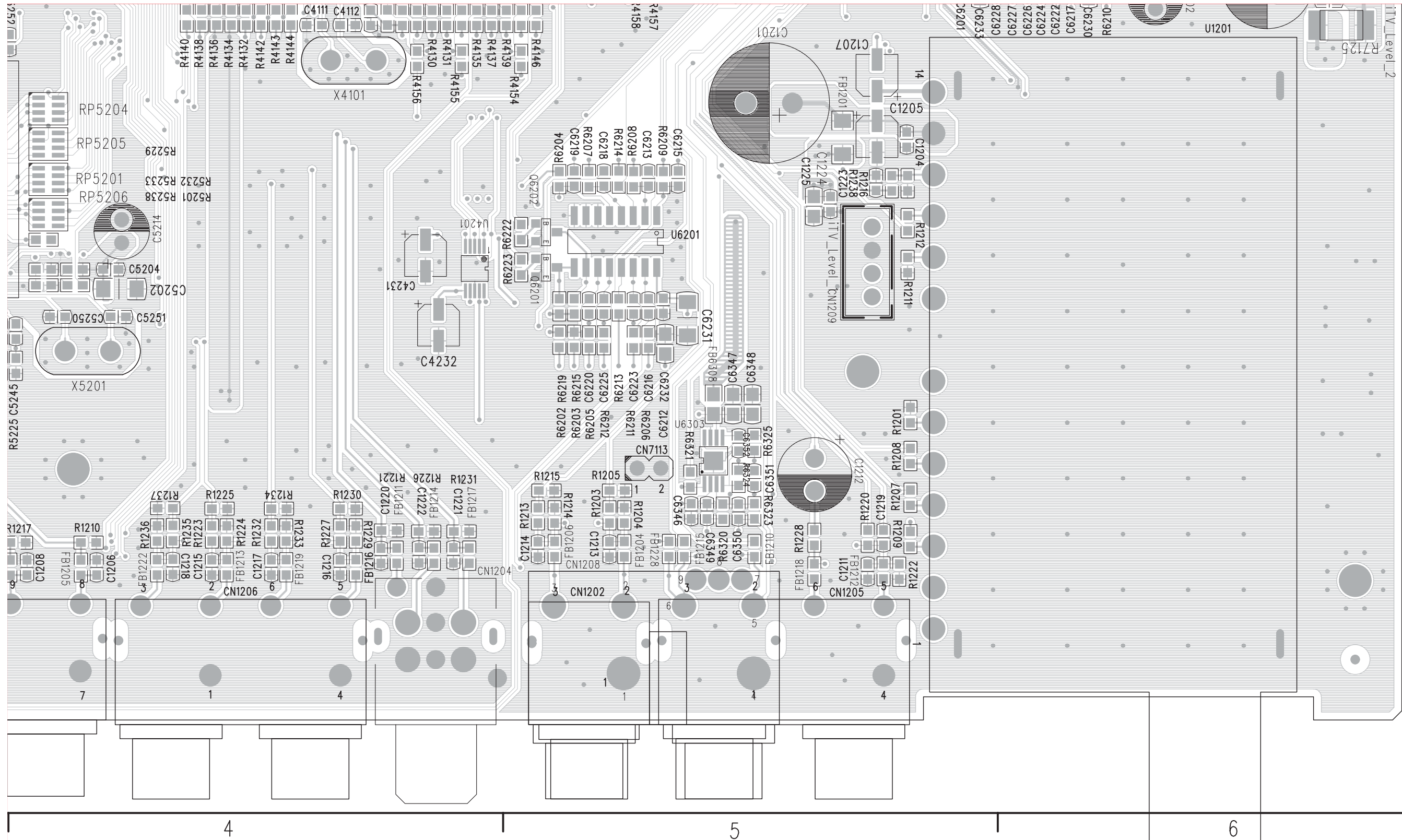
408-1

A

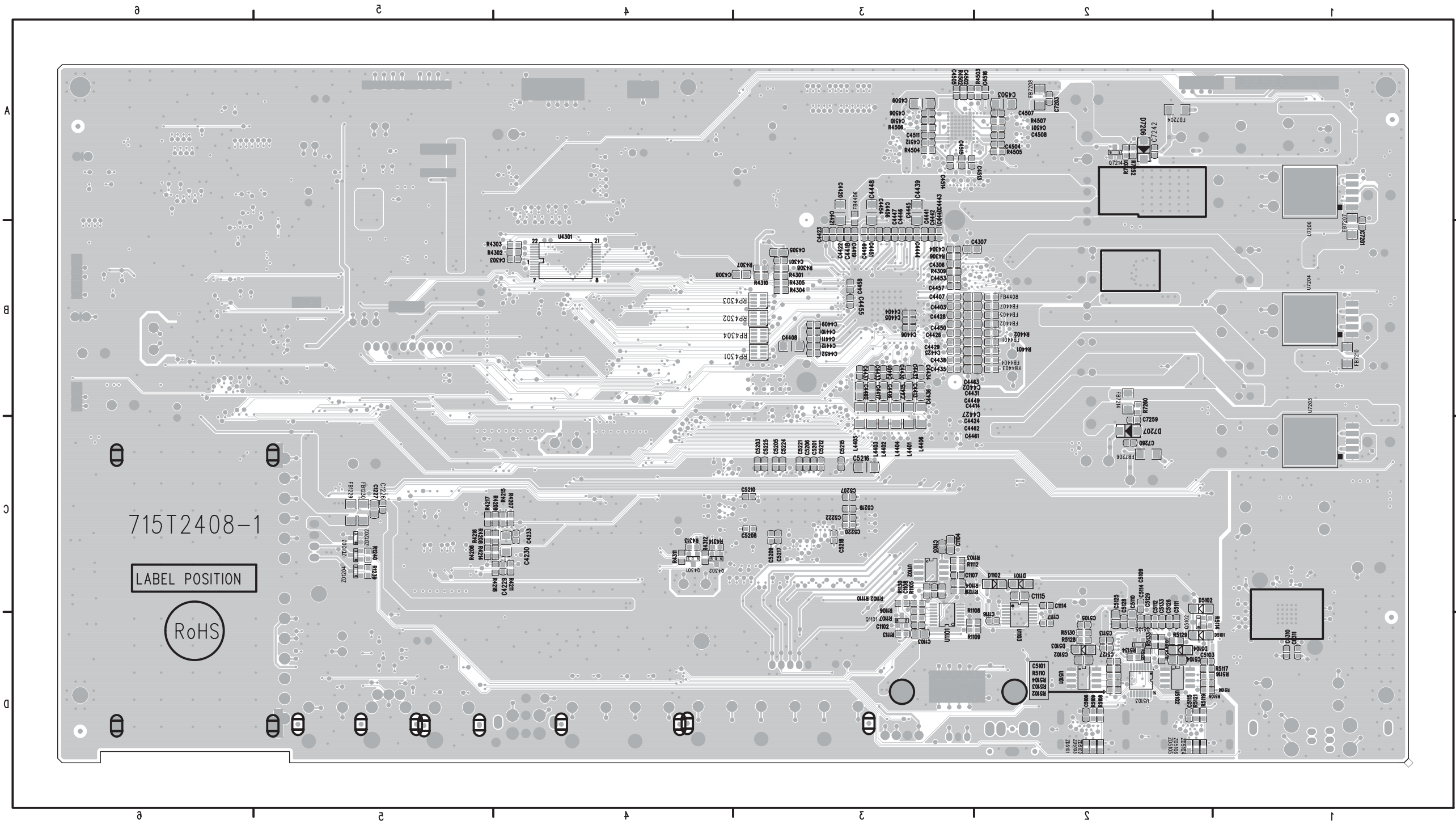
B

Scaler Board Layout(Top Side Part 3)





Scaler Board Layout(Bottom Side)



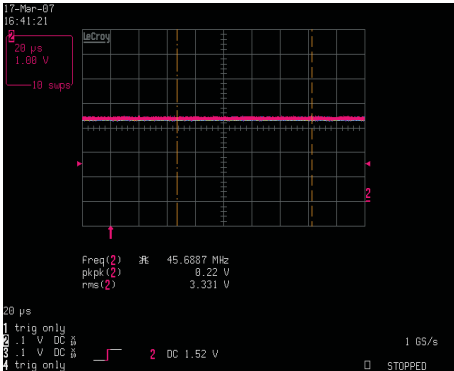
C1102	D3	C4448	B3	C5225	C3	R4301	B3
C1103	D3	C4449	B3	C6310	D1	R4302	B4
C1104	C3	C4450	B3	C6311	D1	R4303	B4
C1105	C3	C4451	B3	C7201	B1	R4304	B3
C1107	C3	C4452	B3	C7203	A2	R4305	B3
C1108	C3	C4453	B3	C7242	A2	R4306	B3
C1114	C2	C4454	B3	C7259	C2	R4307	B3
C1115	C2	C4455	B3	C7260	C2	R4308	B3
C1116	D2	C4456	B3	D1101	C2	R4309	B3
C1117	D2	C4457	B3	D1102	C2	R4310	B3
C1226	C5	C4458	B3	D5101	D2	R4311	C4
C1227	C5	C4459	B3	D5102	C2	R4312	C4
C4229	C4	C4460	B3	D5103	D2	R4313	C4
C4230	C4	C4461	B3	D5104	D2	R4314	C4
C4233	C4	C4462	B3	D7206	A2	R4401	B2
C4301	B3	C4463	B3	D7207	C2	R4402	B2
C4303	B4	C4501	A2	FB1229	C5	R4502	A3
C4304	B3	C4502	A3	FB1230	C5	R4503	A2
C4305	B3	C4503	A2	FB4401	B2	R4504	A3
C4306	B3	C4504	A2	FB4402	B2	R4505	A2
C4307	B3	C4505	A3	FB4403	B2	R4506	A3
C4308	B3	C4506	A3	FB4404	B2	R4507	A2
C4401	B3	C4507	A2	FB4405	B2	R5101	D2
C4402	B3	C4508	A2	FB4406	B3	R5102	D2
C4403	B3	C4509	A3	FB4407	B2	R5103	D2
C4404	B3	C4510	A3	FB4408	B2	R5104	D2
C4405	B3	C4511	A3	FB7204	A2	R5105	D2
C4406	B3	C4512	A3	FB7206	C2	R5106	D2
C4407	B3	C4513	A3	FB7207	B1	R5108	D2
C4408	B3	C4514	A3	FB7208	A2	R5109	D2
C4409	B3	C4515	A3	FB7210	B1	R5110	D2
C4410	B3	C4516	A2	FB7214	B2	R5111	D2
C4411	B3	C5101	D2	L4401	C3	R5114	D2
C4412	B3	C5102	D2	L4402	C3	R5116	D2
C4413	B3	C5103	D2	L4403	C3	R5117	D2
C4414	B3	C5104	D2	L4404	C3	R5119	D2
C4415	B3	C5105	D2	L4405	C3	R5121	D2
C4416	B3	C5106	D2	L4406	C3	R5128	D2
C4417	B3	C5109	C2	Q1101	D3	R5129	D2
C4418	B3	C5110	D2	Q4301	C4	R5130	D2
C4419	B3	C5111	D2	Q4302	C4	R5133	D2
C4420	B3	C5112	D2	Q5102	D2	R5134	D2
C4421	B3	C5113	D2	Q5105	D2	R5135	D2
C4422	B3	C5114	D2	Q7214	A2	R7201	A2
C4423	B3	C5115	D2	R1102	C3	R7252	A2
C4424	B3	C5125	D2	R1103	C3	R7260	B2
C4425	B3	C5126	D2	R1104	C3	RP4301	B3
C4426	B3	C5127	D2	R1105	C3	RP4302	B3
C4427	B3	C5128	D2	R1106	D3	RP4303	B3
C4428	B3	C5129	D2	R1107	D3	RP4304	B3
C4429	B3	C5133	D2	R1108	D3	U1101	D3
C4430	B3	C5201	C3	R1109	D3	U1102	C3
C4431	B3	C5203	C3	R1110	C3	U1103	C2
C4432	B3	C5205	C3	R1112	C3	U4301	B4
C4433	B3	C5206	C3	R1113	D3	U5101	D2
C4434	B3	C5207	C3	R1129	C3	U5102	D2
C4435	B3	C5208	C3	R1130	C3	U5103	D2
C4436	B3	C5209	C3	R1239	C5	U7203	C1
C4437	B3	C5210	C3	R1240	C5	U7204	B1
C4438	B3	C5212	C3	R4206	C5	U7206	A1
C4439	B3	C5215	C3	R4207	C4	ZD1202	C5
C4440	B3	C5216	C3	R4208	C4	ZD1203	C5
C4441	B3	C5217	C3	R4209	C4	ZD1204	C5
C4442	B3	C5218	C3	R4211	C4	ZD5101	D2
C4443	B3	C5219	C3	R4214	C4	ZD5102	D2
C4444	B3	C5220	C3	R4215	C4	ZD5103	D2
C4445	B3	C5221	C3	R4216	C5	ZD5104	D2
C4446	B3	C5222	C3	R4217	C5	ZD5105	D2
C4447	B3	C5224	C3	R4218	C4	ZD5106	D2

Waveform Diagram

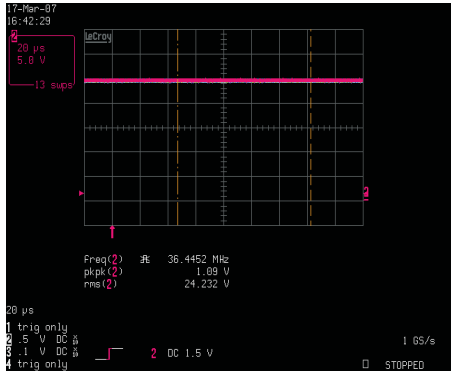


Waveform Diagram

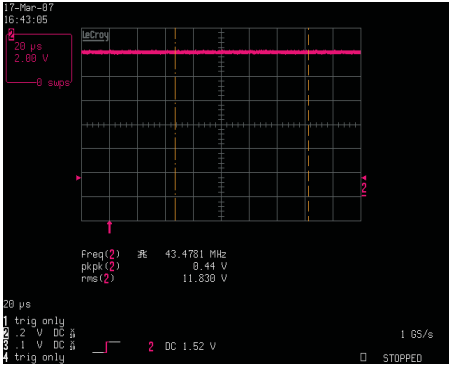
25. REMOTE_3V(C7113)



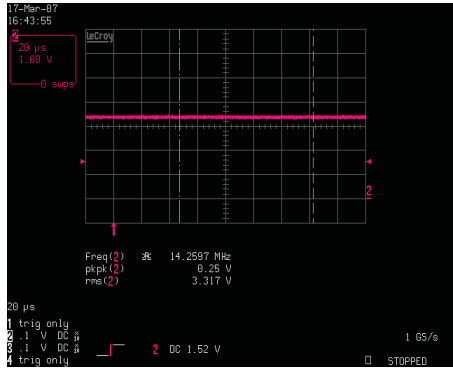
26. +24V(C7202)



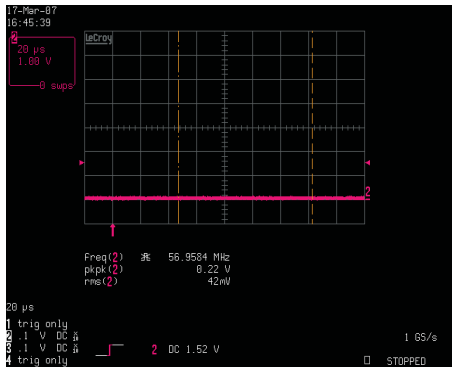
27. +12V(C7208)



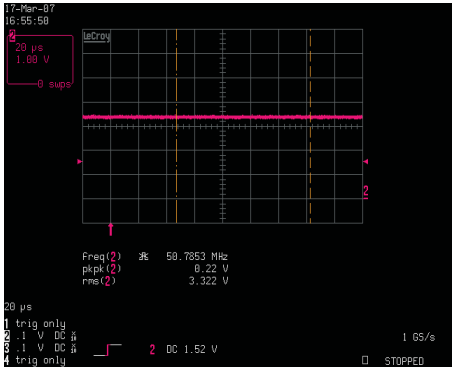
28. BRIGHT_ADJ(CN7201 Pin 5)



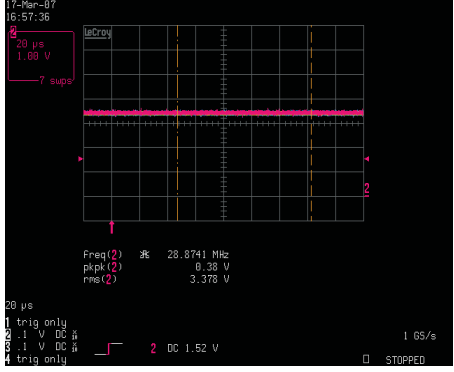
29. INVERTER_ON_OFF(R7211)



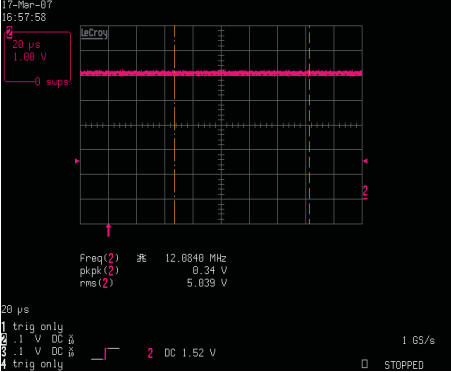
30. STANDBY(CN7201 Pin 10)



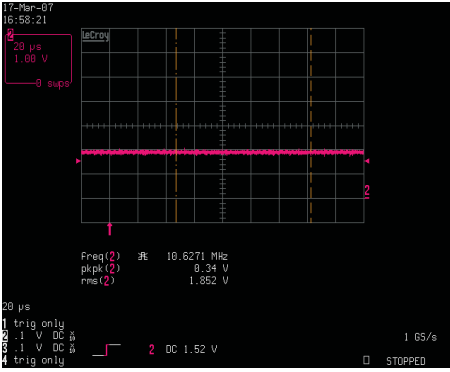
31. +3.3V_SB(FB7211)



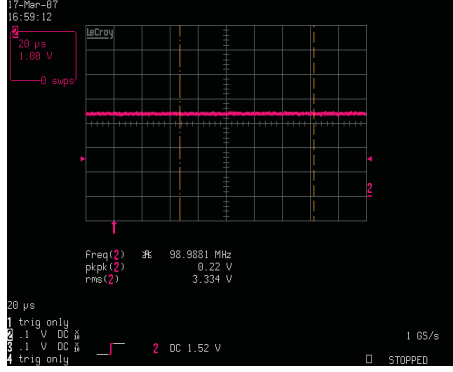
32. +5V_SB(FB7212)



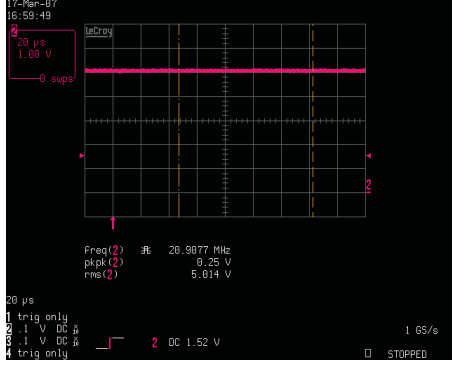
33. PX_VD18(FB7213)



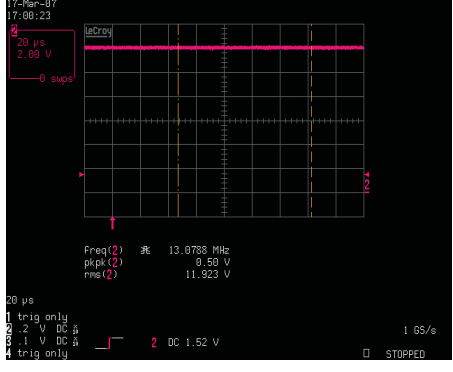
34. +3.3V(C7217)



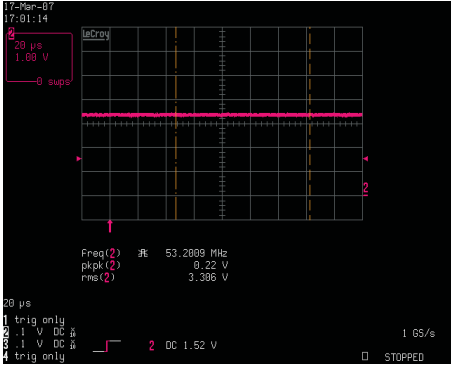
35. +5V(C7229)



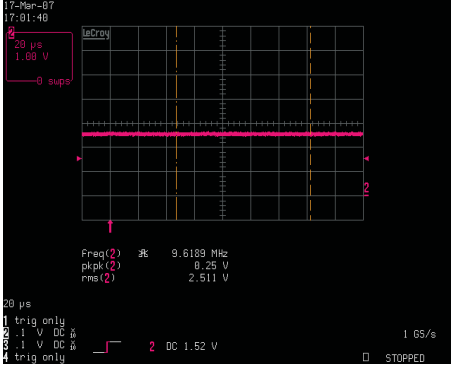
36. PANEL_VCC(C7241)



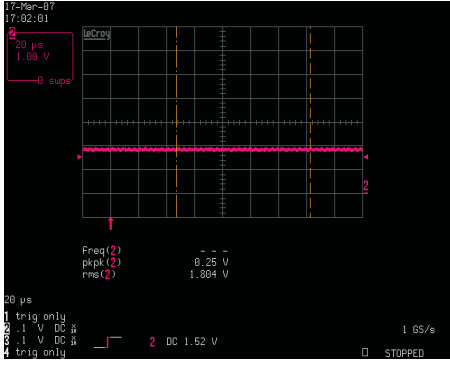
37. +3.3V_HDMI(C7250)



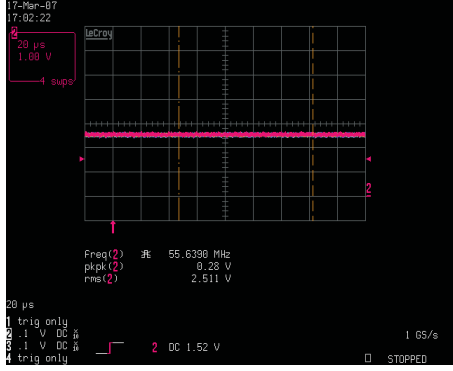
38. +2.5V_ADC(C7252)



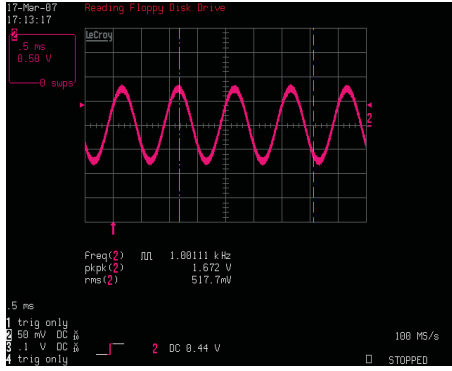
39. PX_1.8V(C7238)



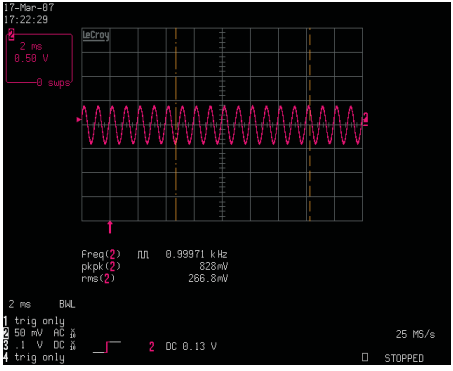
40. PX_VDDM(C7213)



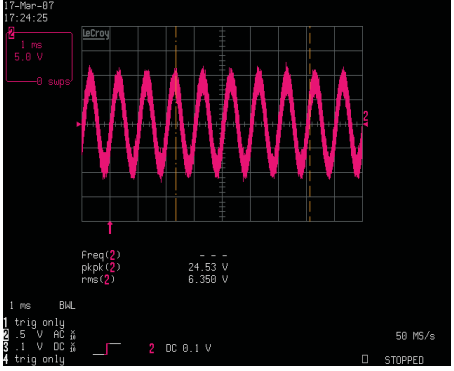
41. COMP1_L(FB1213)



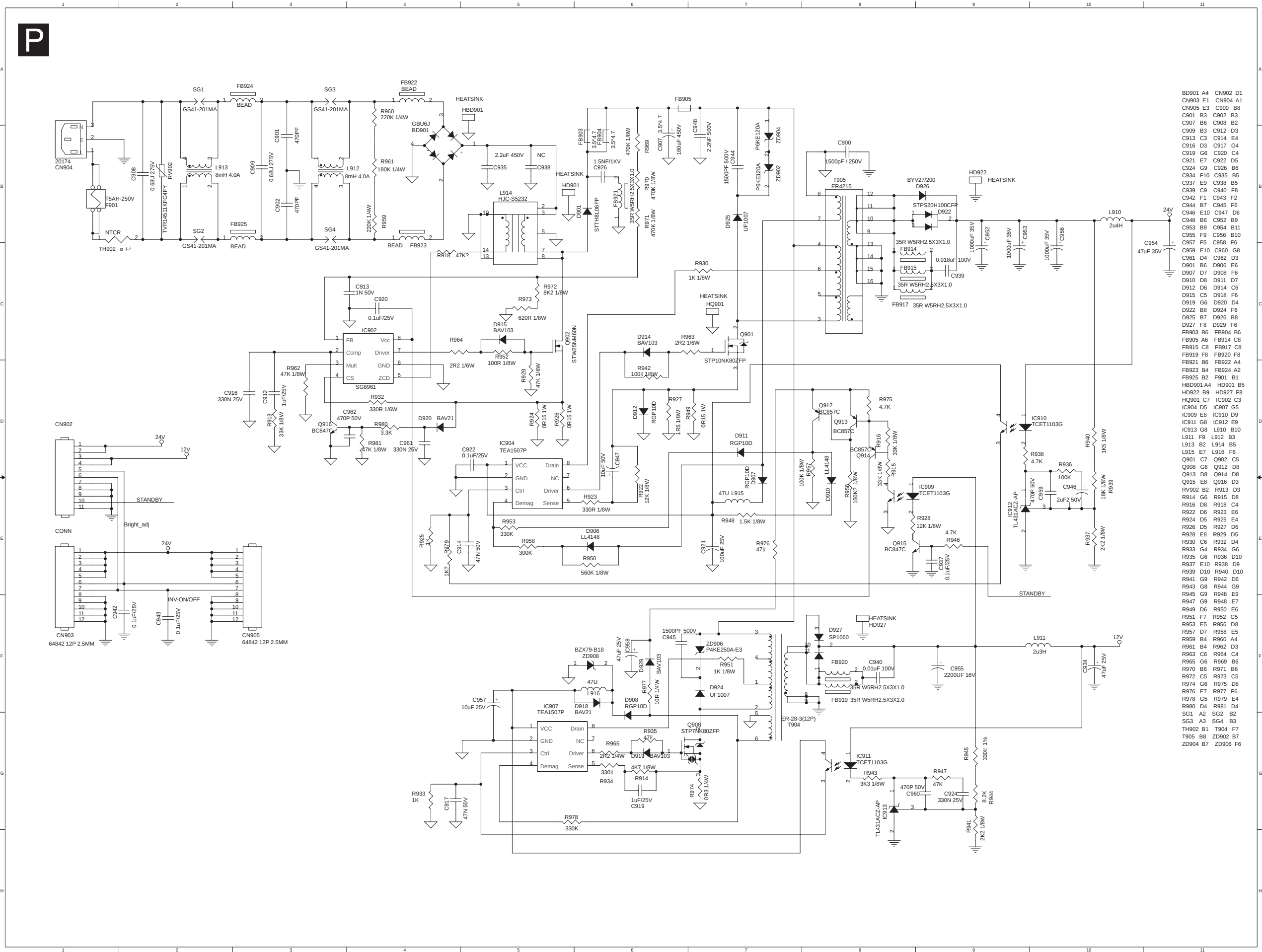
42. AL_DACM(R6309)



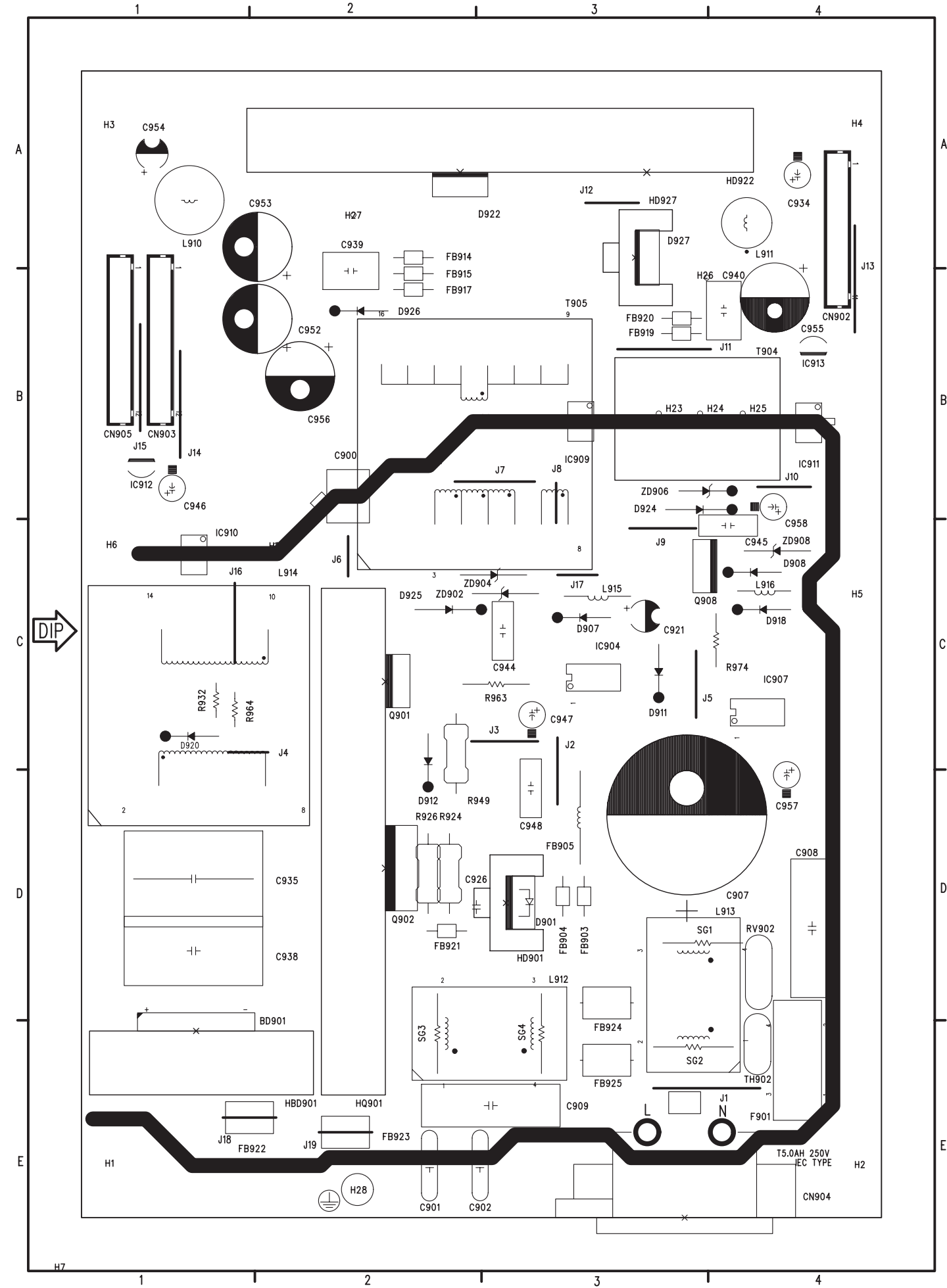
43. LOUT+(CN6303 Pin 2)



Power Board Schematic Diagram(for 37TA)

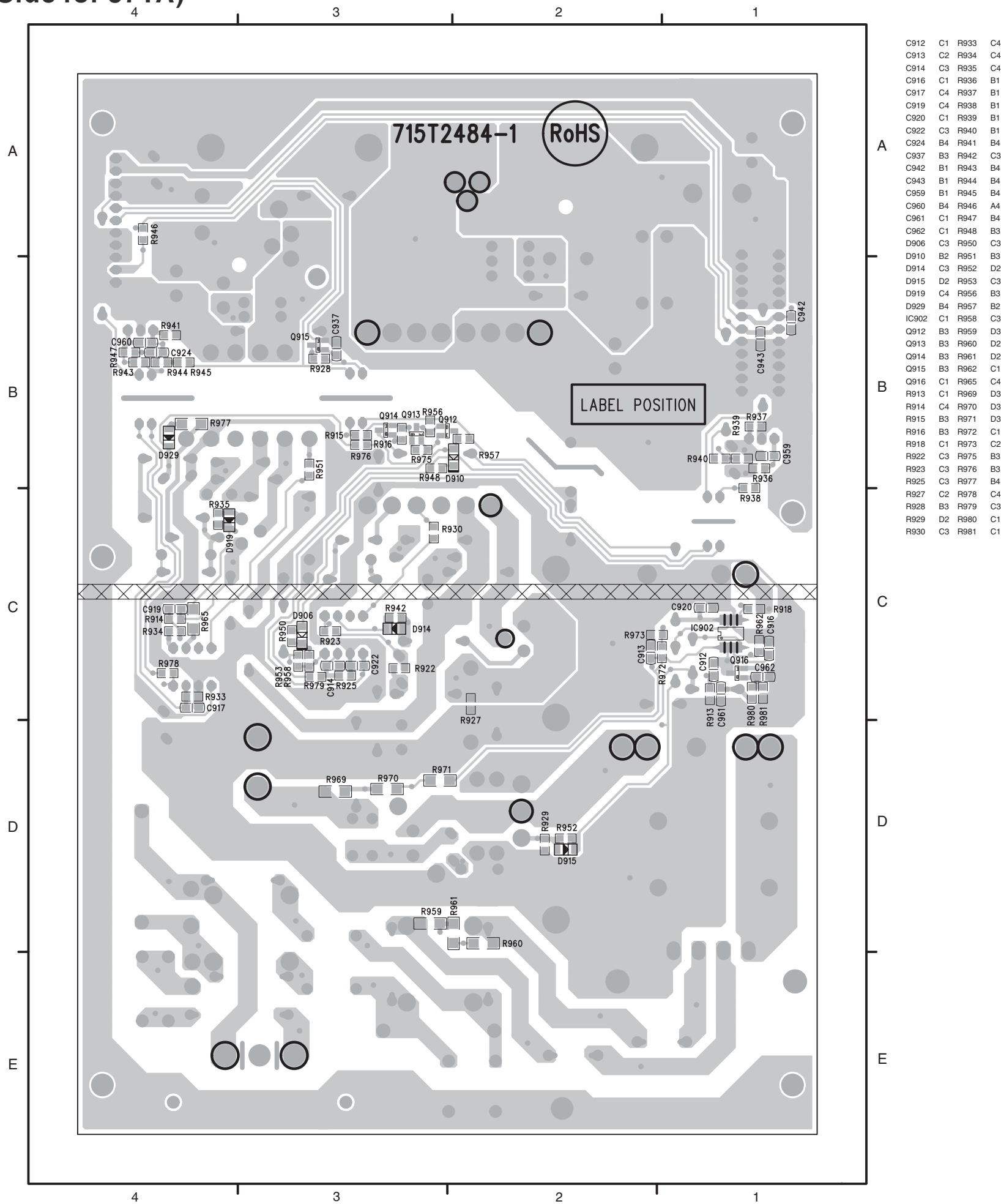


Power Board Layout(Top Side for 37TA)



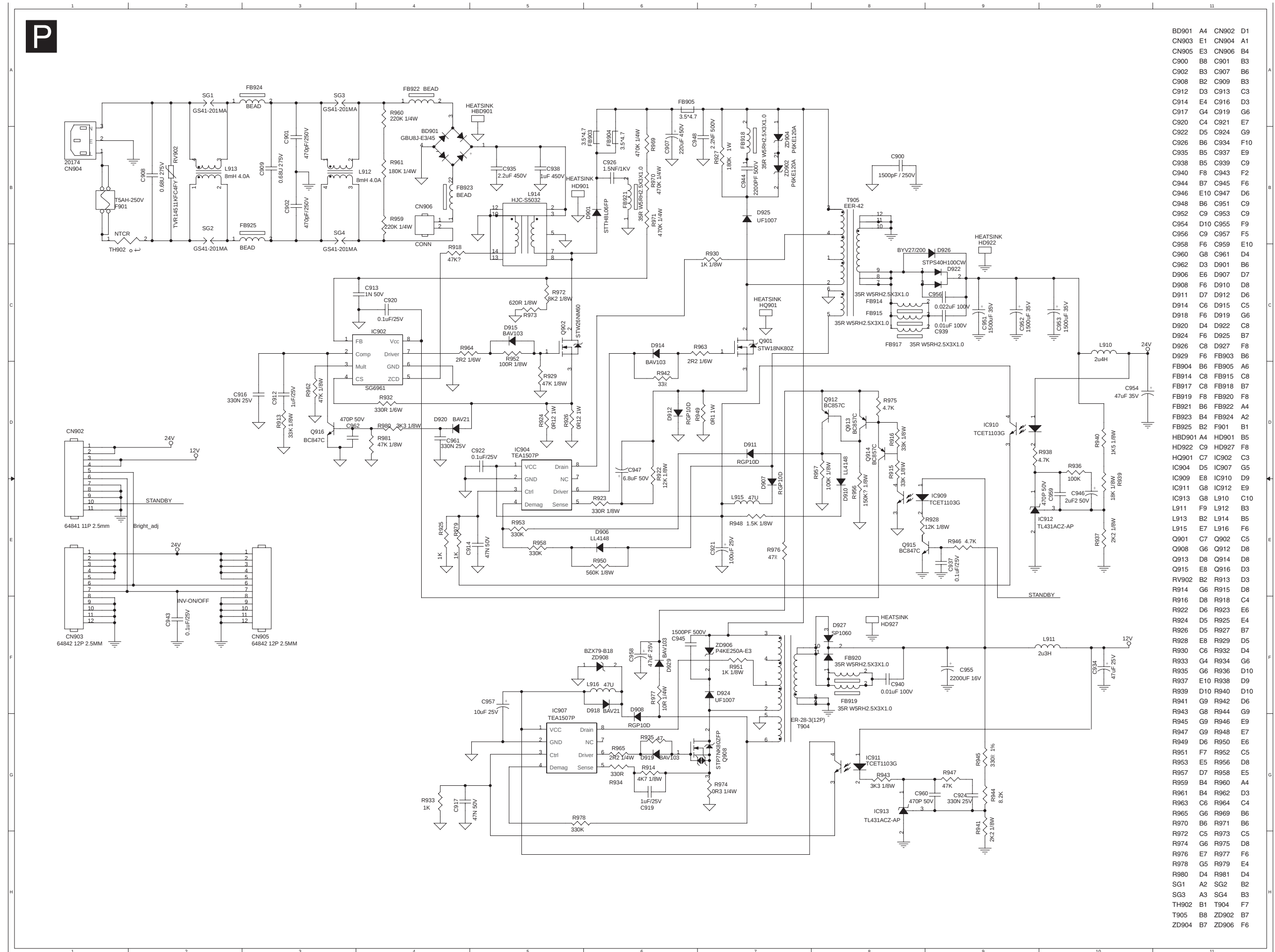
BD901	D1	FB915	B2
C900	B2	FB917	B2
C901	E2	FB919	B3
C902	E2	FB920	B3
C907	D3	FB921	D2
C908	D4	FB922	E2
C909	E3	FB923	E2
C921	C3	FB924	D3
C926	D2	FB925	E3
C934	A4	HBD901	E1
C935	D1	HD901	D3
C938	D1	HD922	A3
C939	B2	HD927	A3
C940	B4	HQ901	D2
C944	C3	IC904	C3
C945	C4	IC907	C4
C946	B1	IC909	B3
C947	C3	IC910	C1
C948	D3	IC911	B4
C952	B2	IC912	B1
C953	A2	IC913	B4
C954	A1	L910	A1
C955	B4	L911	A4
C956	B2	L912	E3
C957	D4	L913	D3
C958	B4	L914	C1
CN902	A4	L915	C3
CN903	A1	L916	C4
CN904	E3	Q901	C2
CN905	A1	Q902	D2
D901	D3	Q908	C3
D907	C3	R924	D2
D908	C4	R926	D2
D911	C3	R932	C1
D912	D2	R949	C2
D918	C4	R963	C3
D920	C1	R964	C1
D922	A2	R974	C4
D924	B4	RV902	D4
D925	C3	T904	B3
D926	B2	T905	B2
D927	A3	TH902	E4
F901	E4	ZD902	C2
FB903	D3	ZD904	C3
FB904	D3	ZD906	B4
FB905	D3	ZD908	C4
FB914	A2		

Power Board Layout(Bottom Side for 37TA)

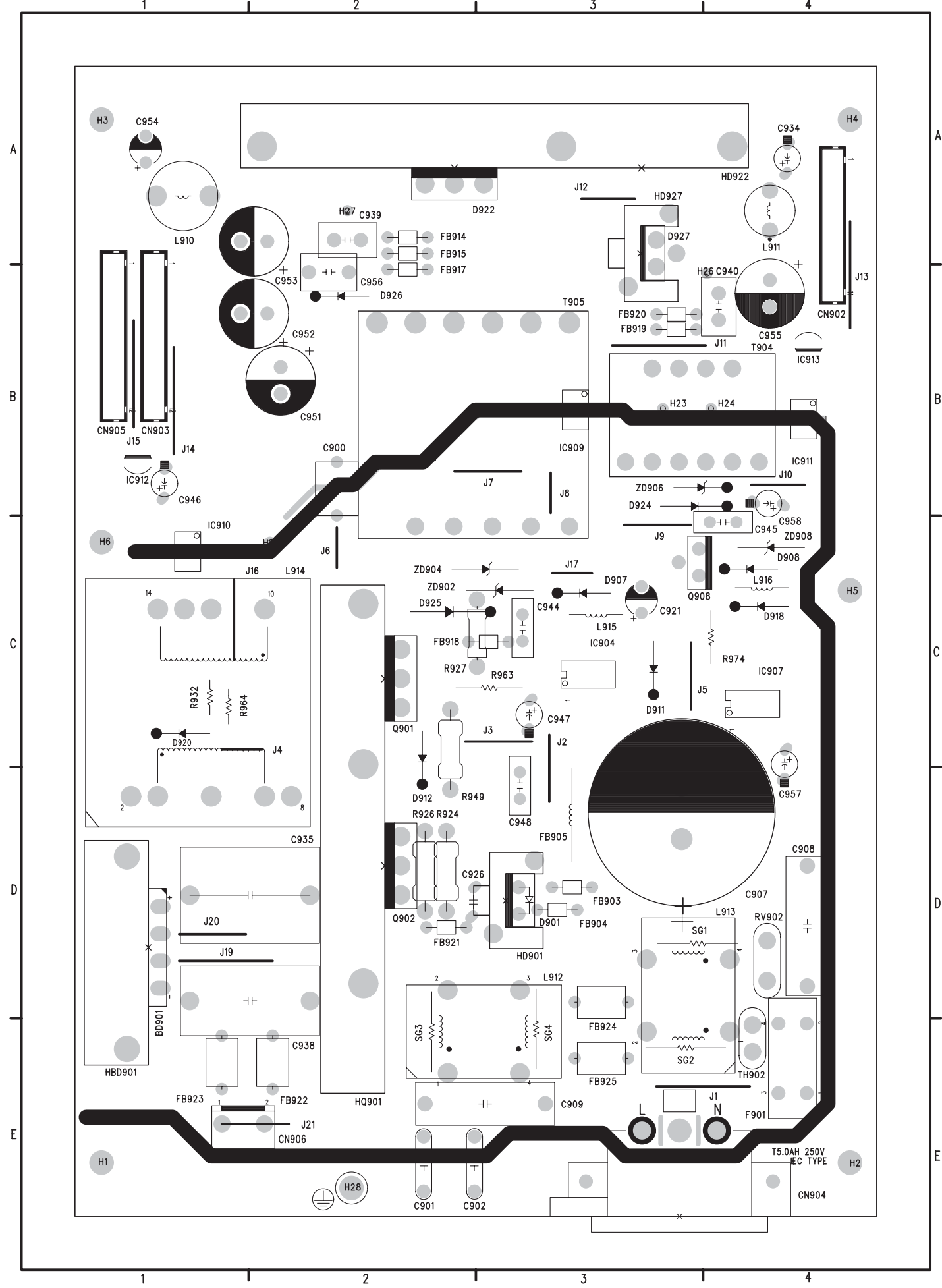


7. Circuit Diagrams and PWB Layouts

Power Board Schematic Diagram(for 42TA)

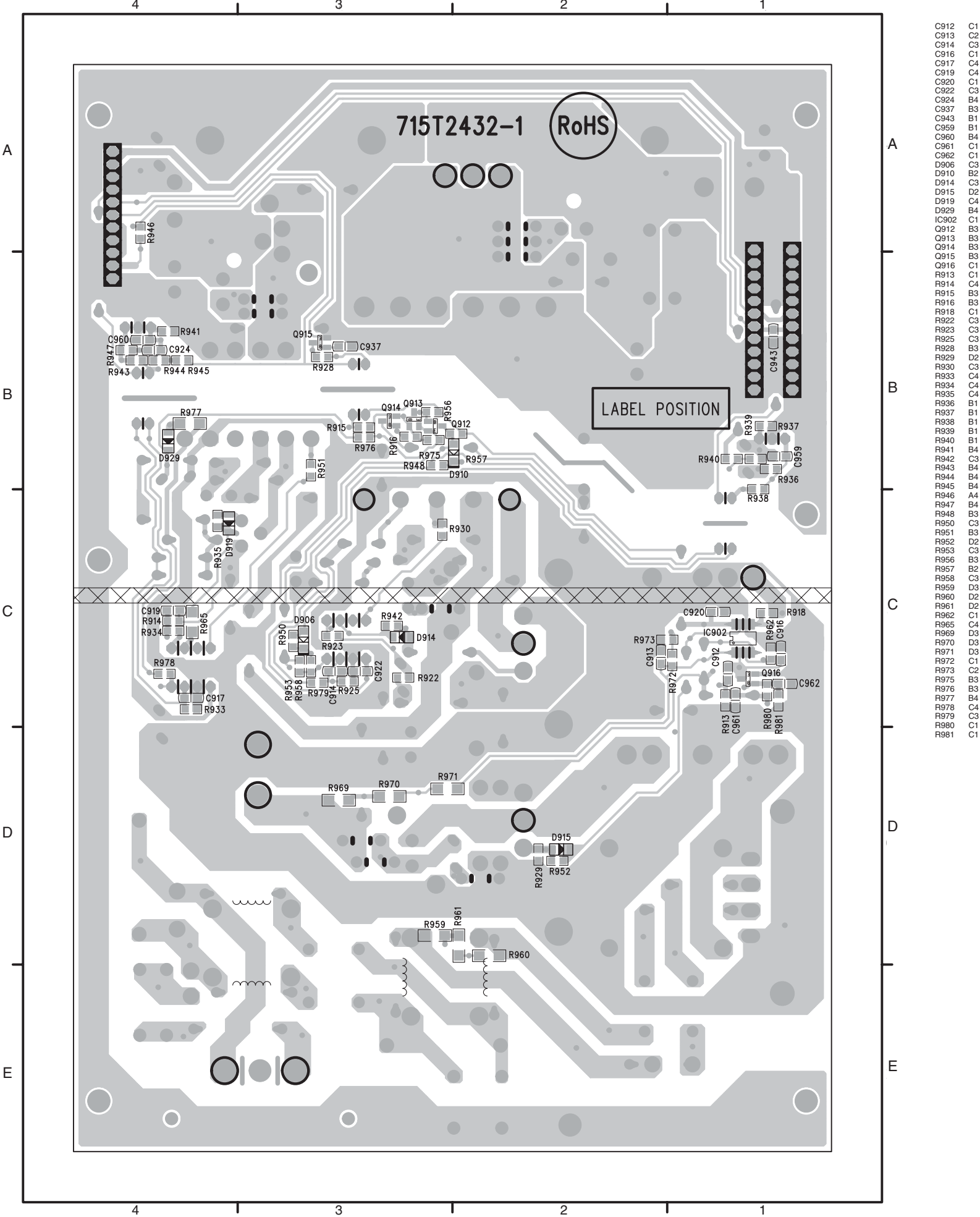


Power Board Layout(Top Side for 42TA)

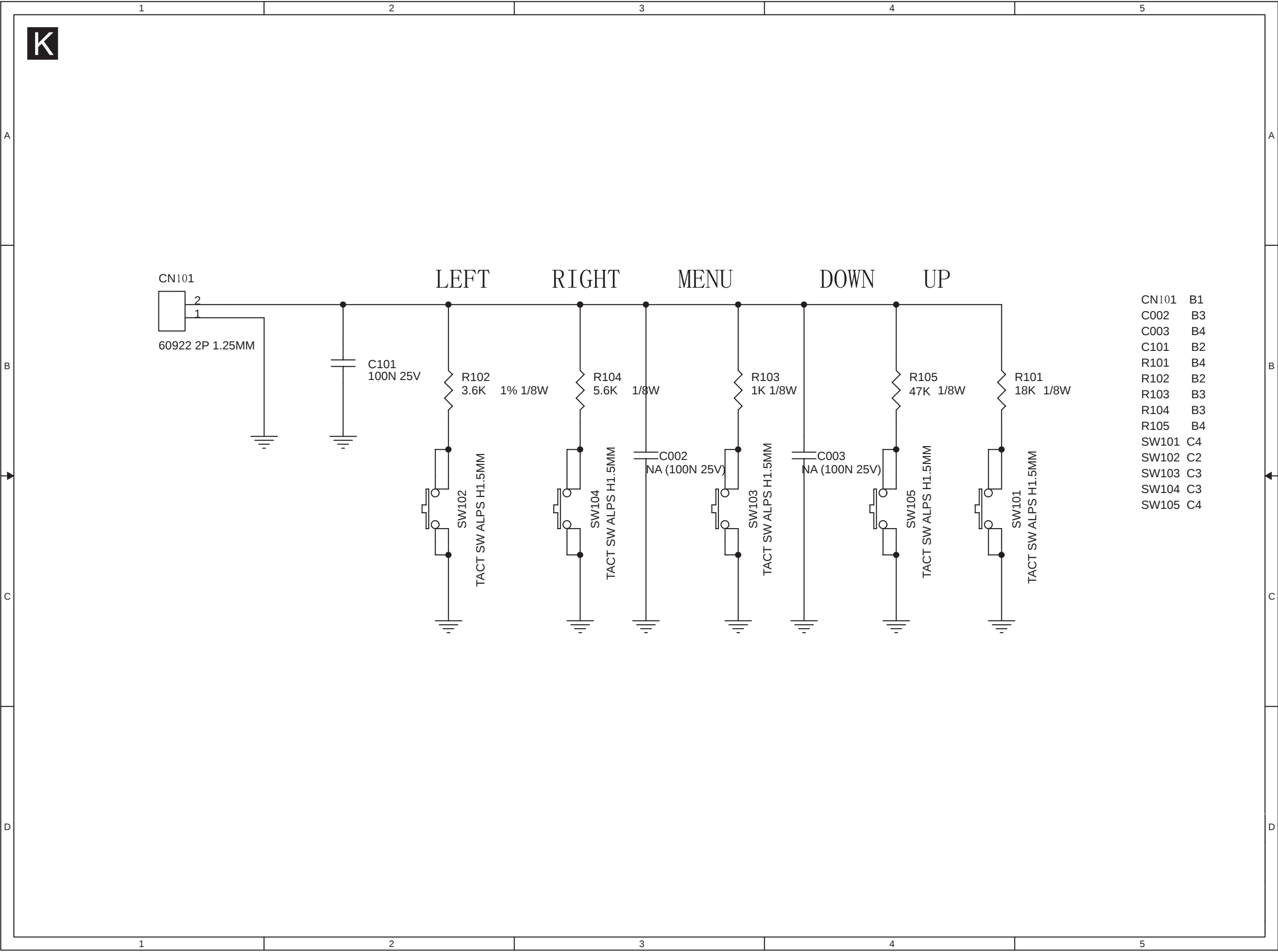


- BD901 D1
- C900 B2
- C901 E2
- C902 E2
- C907 D3
- C908 D4
- C909 E3
- C921 C3
- C926 D2
- C934 A4
- C935 D2
- C938 D2
- C939 A2
- C940 B4
- C944 C3
- C945 C4
- C946 B1
- C947 C3
- C948 D3
- C951 B2
- C952 B2
- C953 A2
- C954 A1
- C955 B4
- C956 B2
- C957 C4
- C958 B4
- CN902 A4
- CN903 A1
- CN904 E3
- CN905 A1
- CN906 E1
- D901 D3
- D907 C3
- D908 C4
- D911 C3
- D912 D2
- D916 C4
- D920 C1
- D922 A2
- D924 B4
- D925 C3
- D926 B2
- D927 A3
- F901 E4
- FB903 D3
- FB904 D3
- FB905 D3
- FB914 A2
- FB915 A2
- FB917 B2
- FB918 C3
- FB919 B3
- FB920 B3
- FB921 D2
- FB922 E2
- FB923 E1
- FB924 D3
- FB925 E3
- HBD901 D1
- HD901 D3
- HD922 A3
- HD927 A3
- HQ901 D2
- IC904 C3
- IC907 C4
- IC909 B3
- IC910 C1
- IC911 B4
- IC912 B1
- IC913 B4
- L910 A1
- L911 A4
- L912 E3
- L913 D3
- L914 C1
- L915 C3
- L916 C4
- Q901 C2
- Q902 D2
- Q908 C3
- R924 D2
- R926 D2
- R927 C3
- R932 C1
- R949 C2
- R963 C3
- R964 C1
- R974 C4
- RV902 D4
- T904 B3
- T905 B2
- TH902 E4
- ZD902 C2
- ZD904 C3
- ZD906 B4
- ZD908 C4

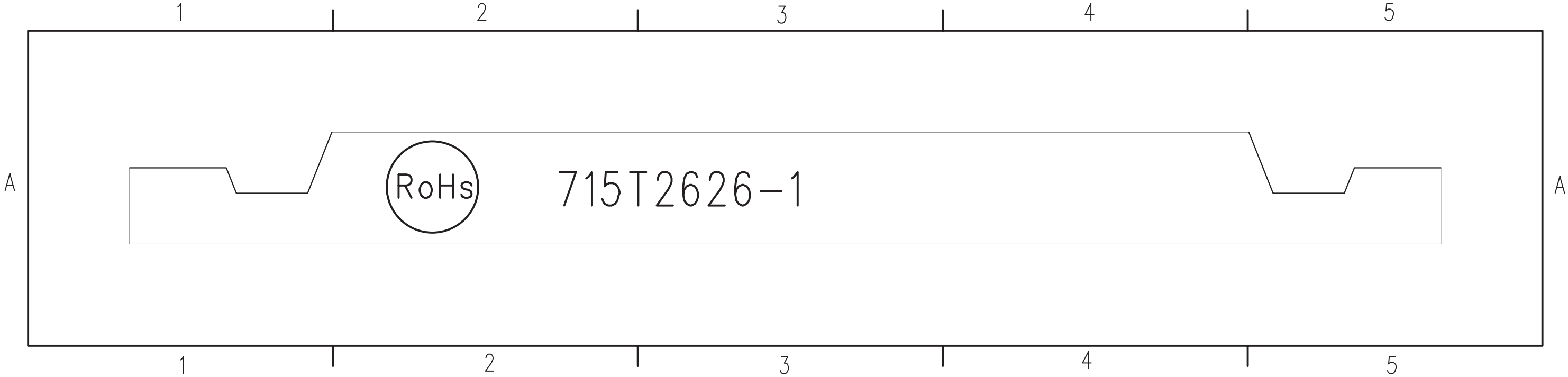
Power Board Layout(Bottom Side for 42TA)



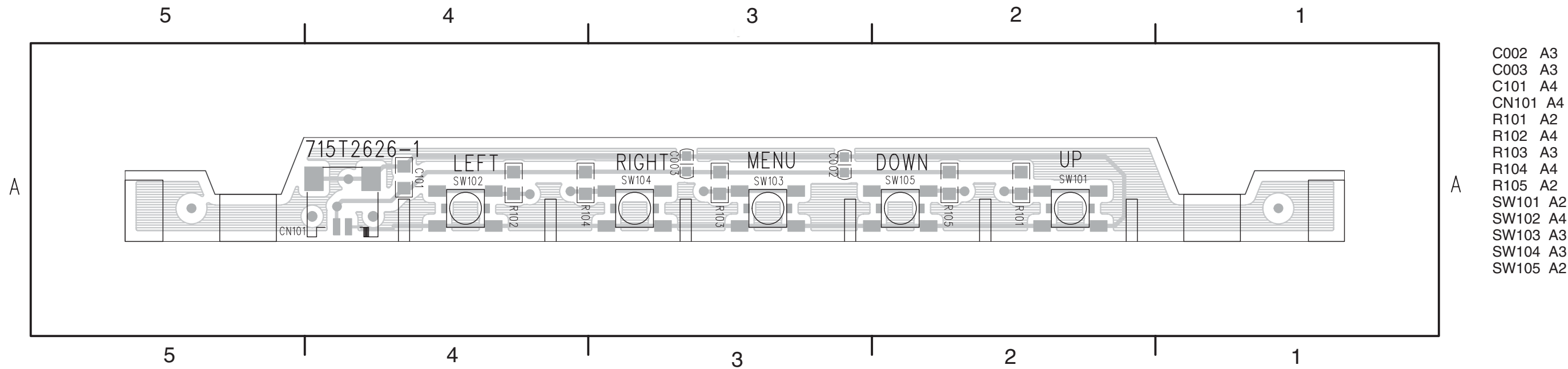
KEY Board Schematic Diagram(for 37TA&42TA)



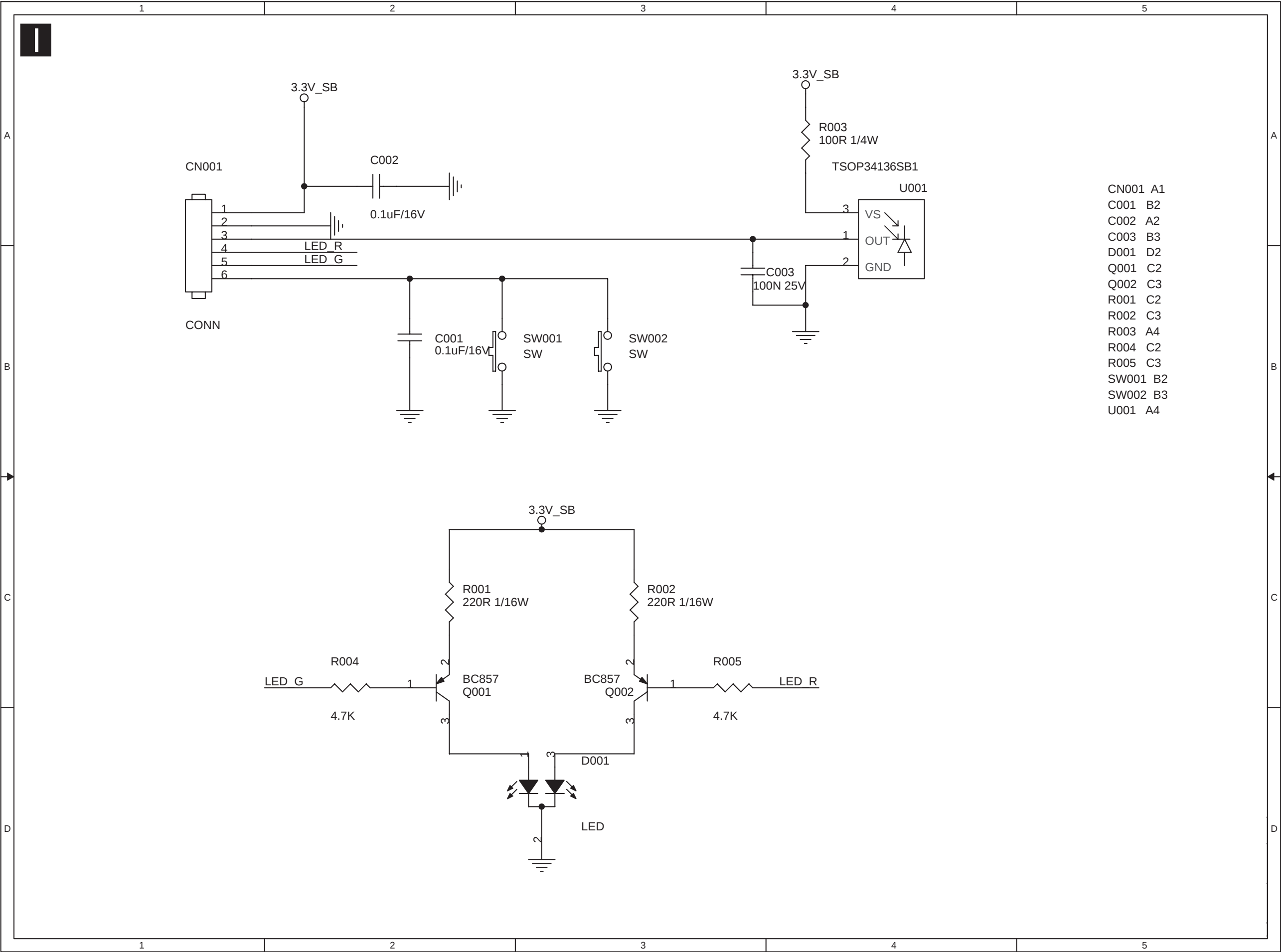
KEY Board Layout(Top Side for 37TA&42TA)



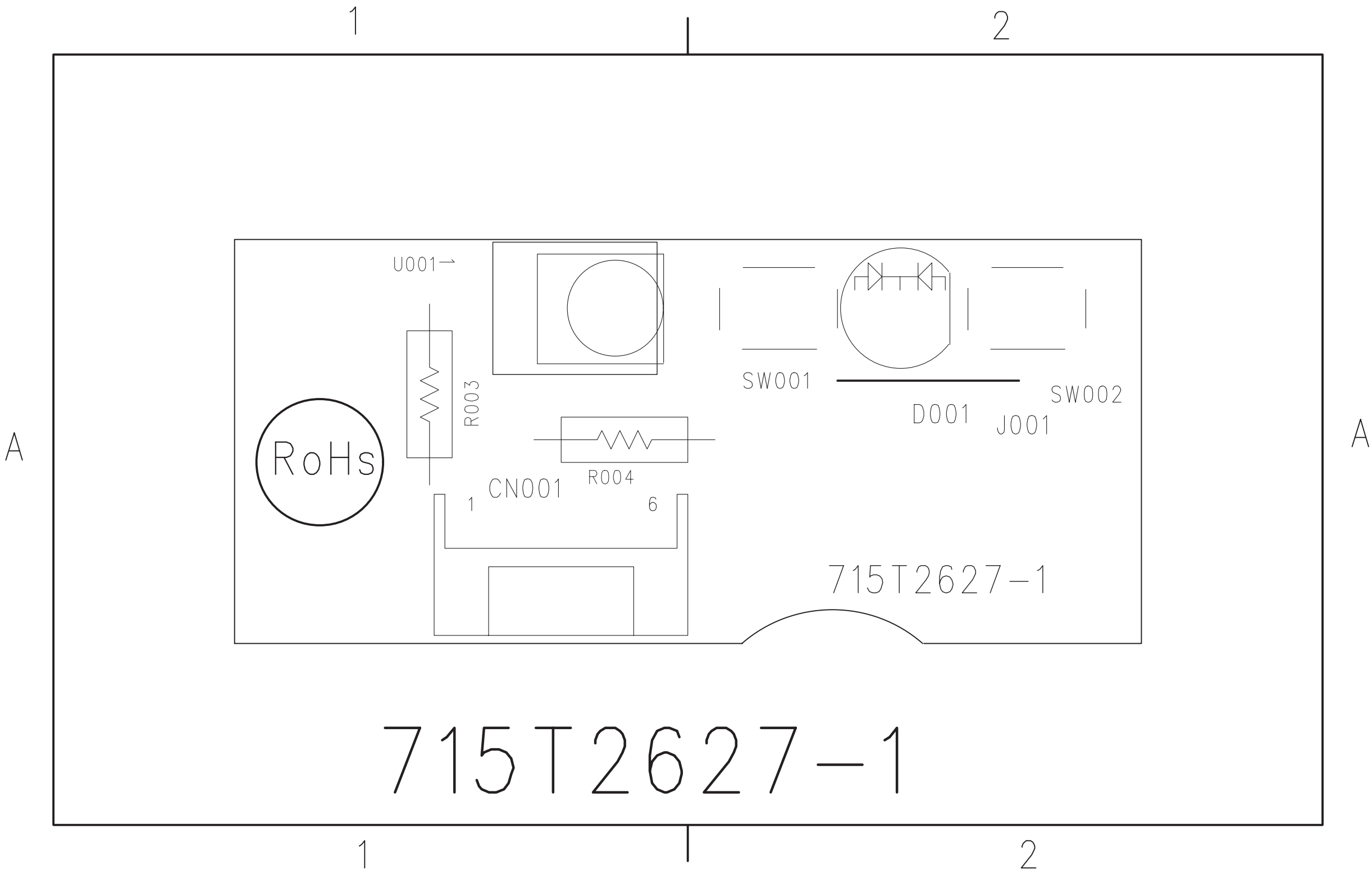
KEY Board Layout(Bottom Side for 37TA&42TA)



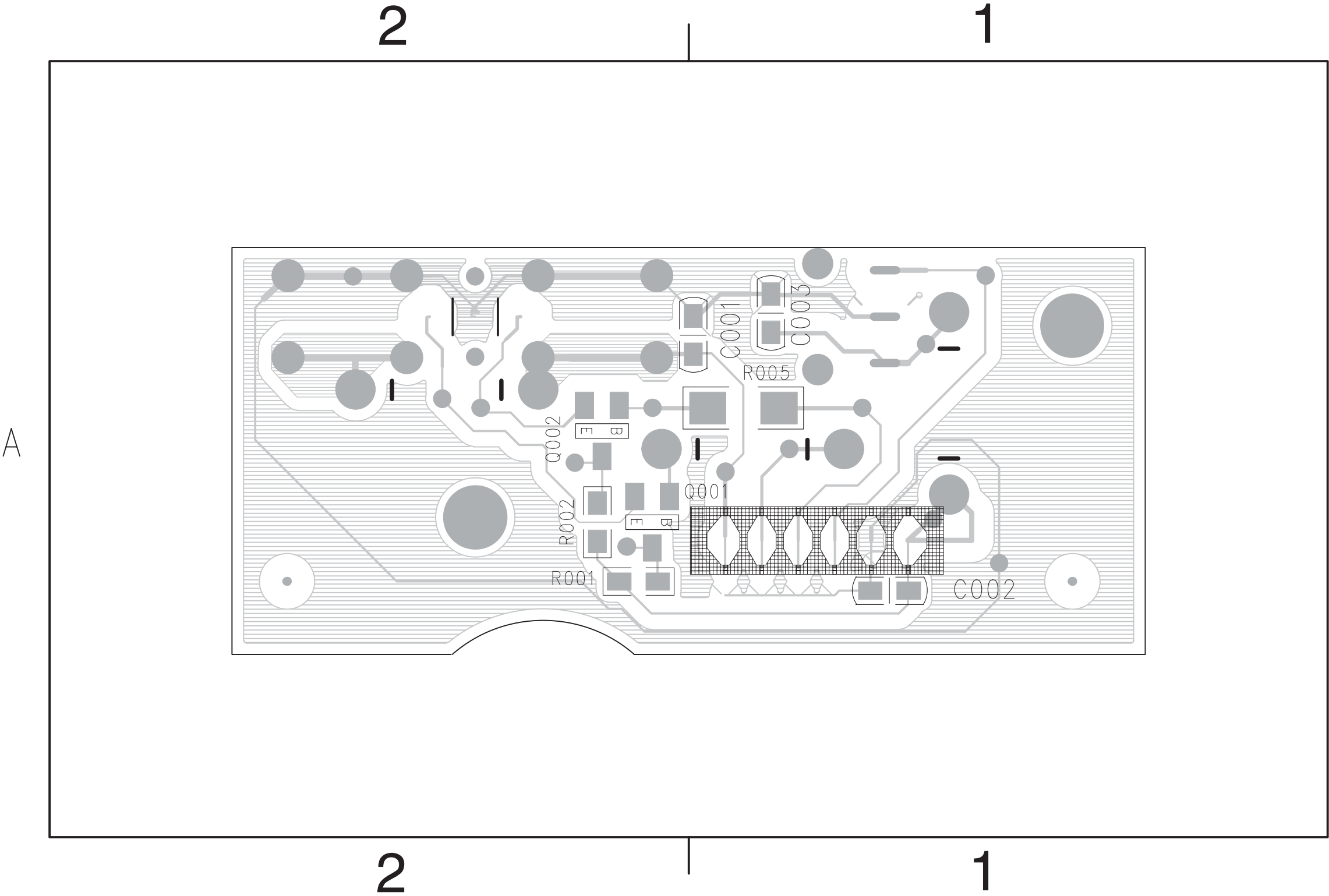
IR Board Schematic Diagram(for 37TA&42TA)



IR Board Layout(Top Side for 37TA&42TA)

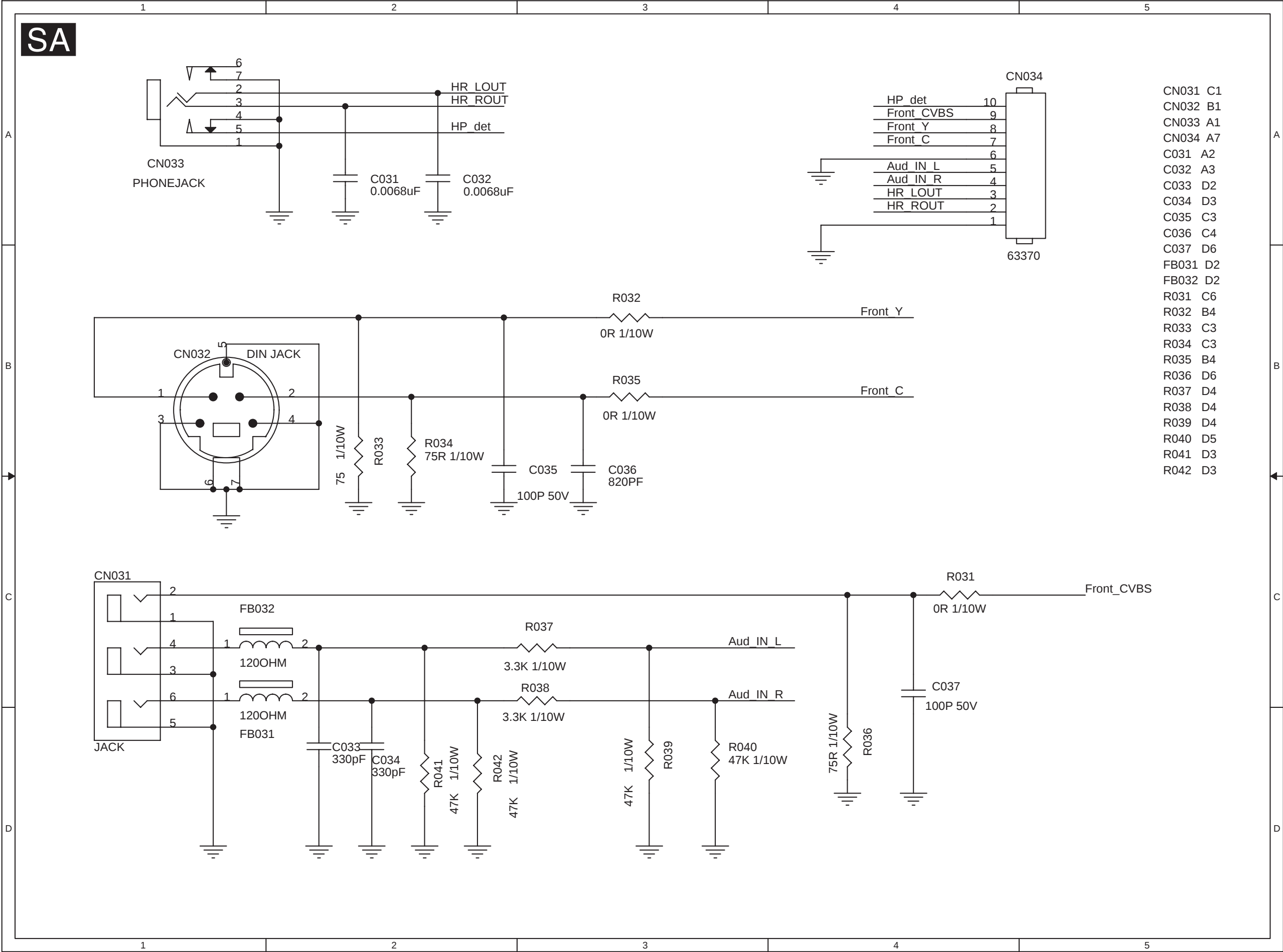


IR Board Layout(Bottom Side for 37TA&42TA)

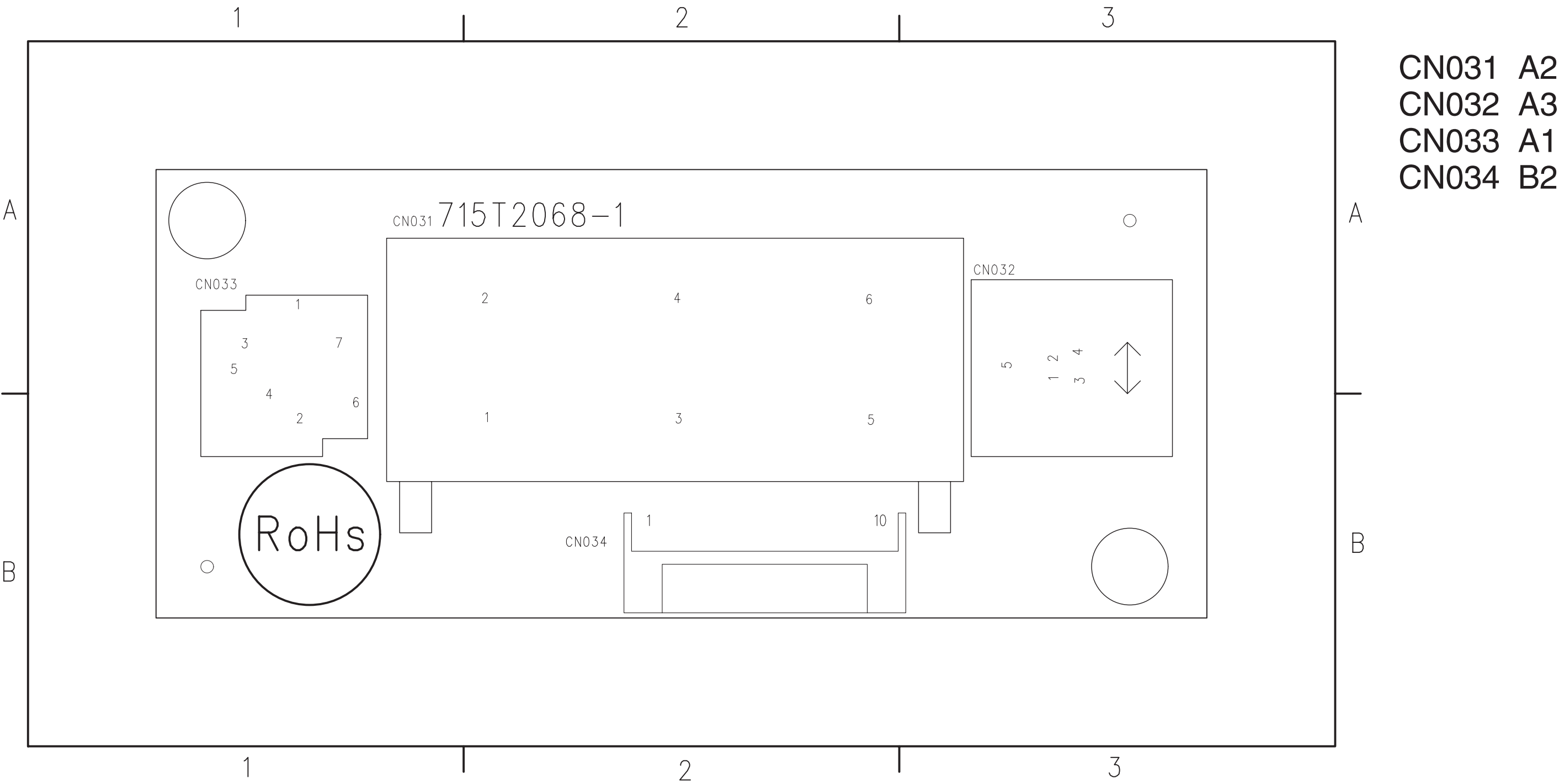


C001	A1
C002	A1
C003	A1
Q001	A2
Q002	A2
R001	A2
R002	A2
R005	A1

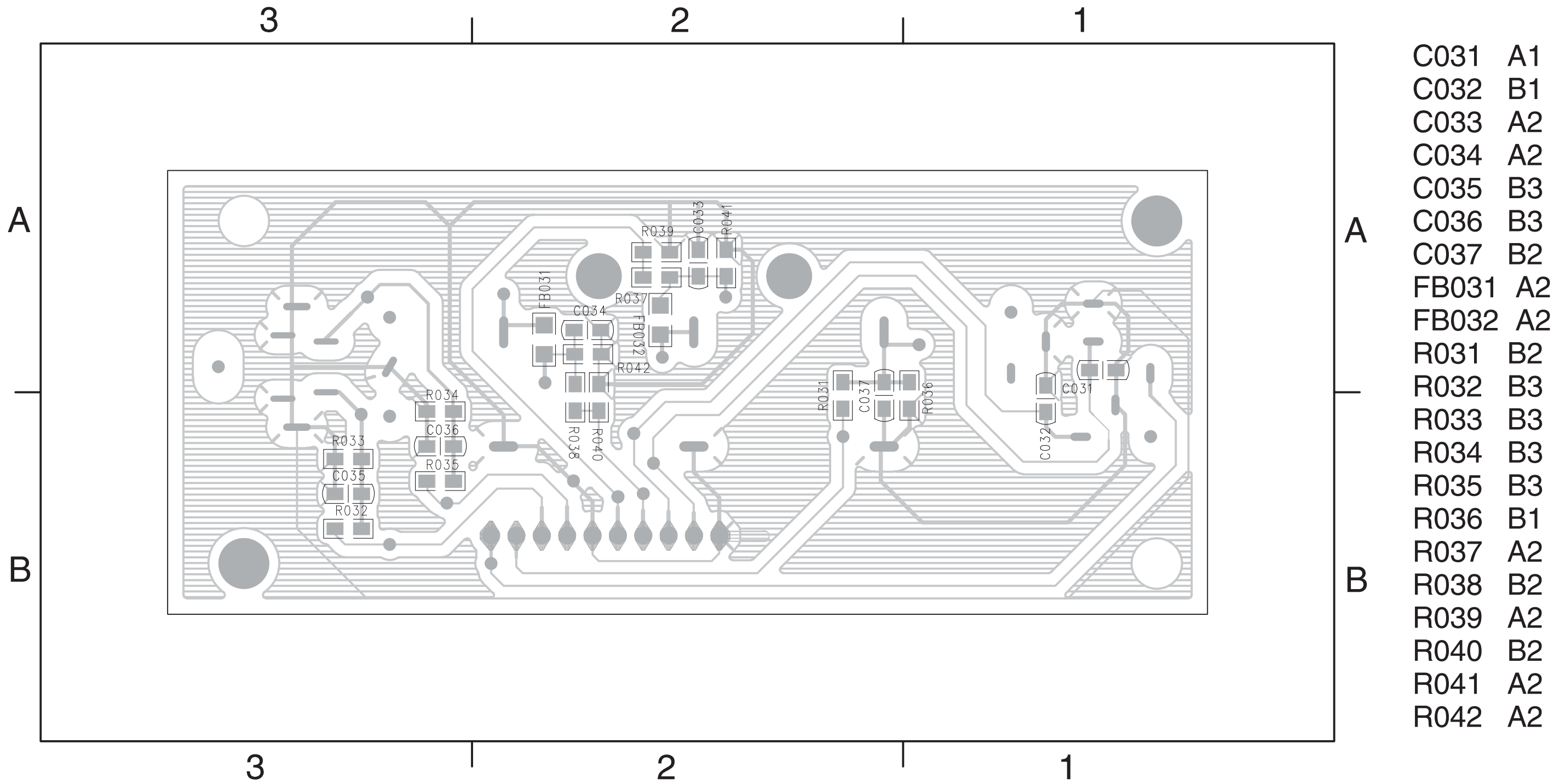
Side AV Board Schematic Diagram(for 37TA)



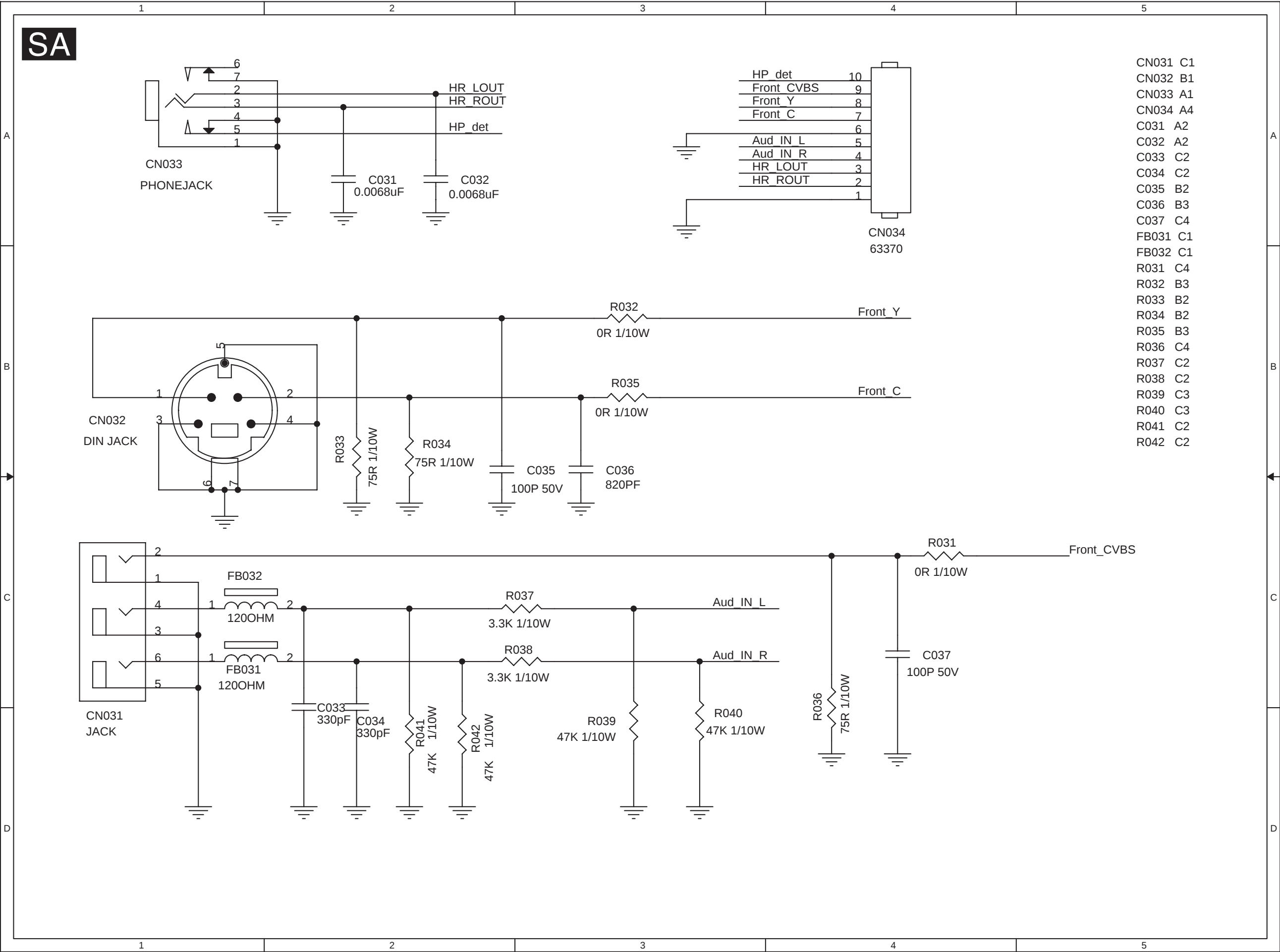
Side AV Board Layout(Top Side for 37TA)



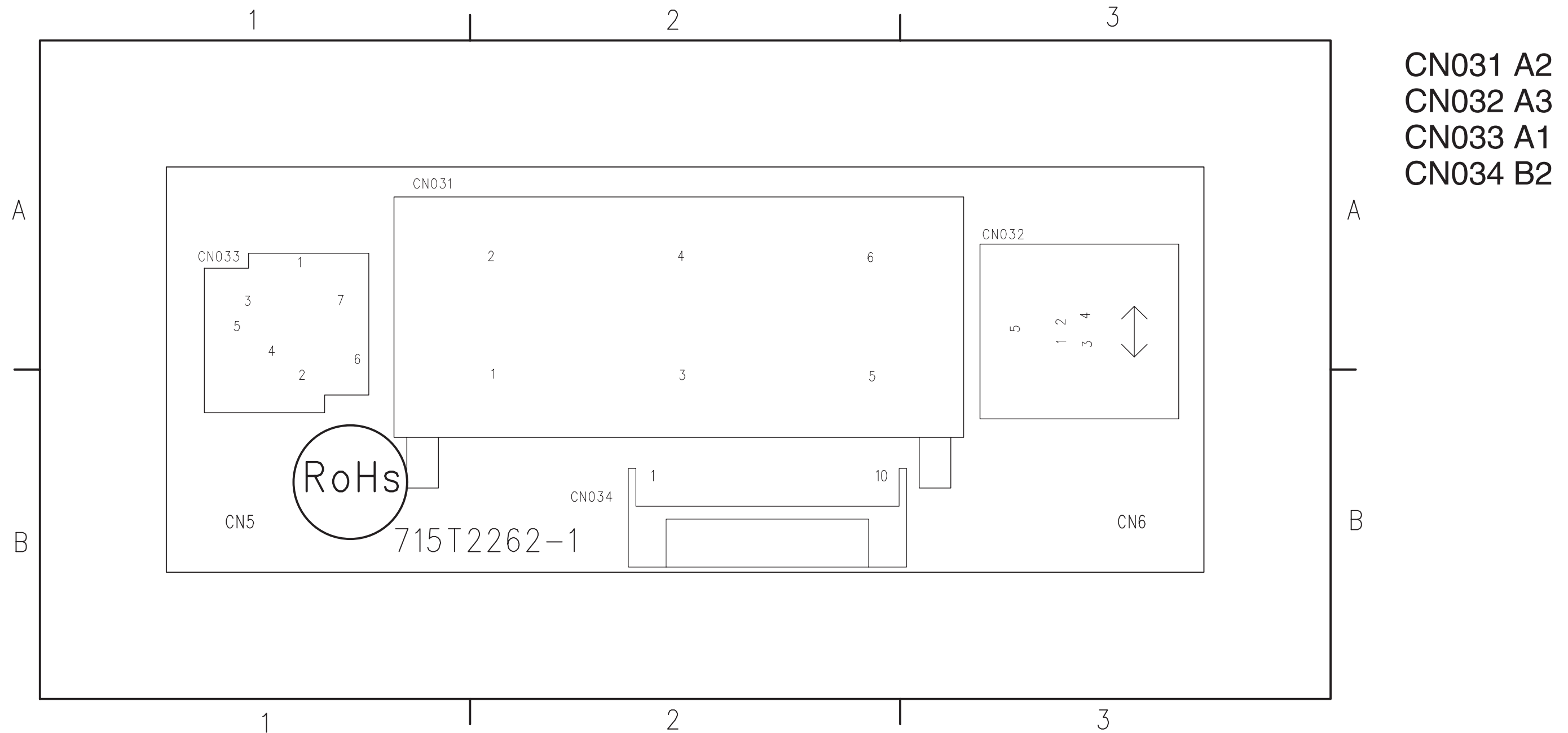
Side AV Board Layout(Bottom Side for 37TA)



Side AV Board Schematic Diagram(for 42TA)

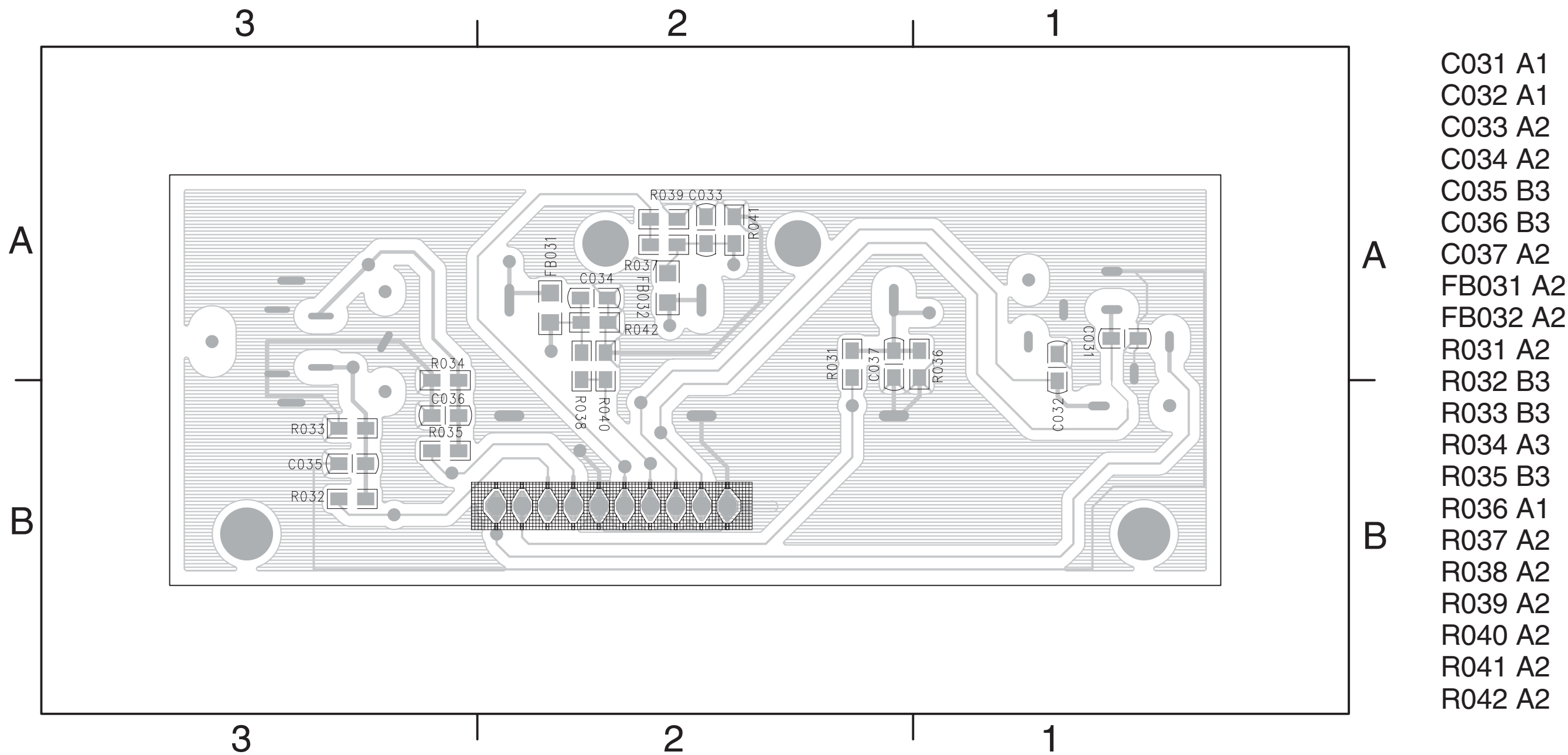


Side AV Board Layout(Top Side for 42TA)



CN031	A2
CN032	A3
CN033	A1
CN034	B2

Side AV Board Layout(Bottom Side for 42TA)



8. Alignments

Index of this chapter:

- 8.1 Electrical Instructions
- 8.2 Software Updarte With ISPWriter
- 8.3 Serial Number Definition

Notes: You could adjust the LCD/TV following this chapter when the LCD/TV has the below defect.

1. Change panel. 2. Change or repair main board. 3. LCD/TV color is not right. 4. The settings are disabled.

8.1 Electrical Instructions

8.1.1 TV Mode display adjust

White balance adjustment (B)

General set-up:

Equipment Requirements: Color analyzer.

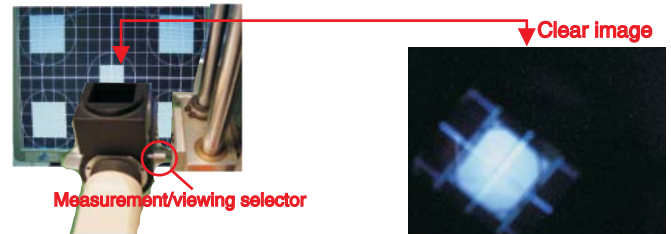
Input requirements:

Input Signal Type: RF signal

1. Set to PAL D/K system, frequency=184.25MHz (for China model) with white pattern of 100%
2. Set to PAL B/G system, frequency=64.25MHz (for WE model) with white pattern of 100%

Input Signal Strength : 10mV (80 dBuV) terminal voltage.

Input Injection Point : TV Tuner input



Color Temp Alignment (B)

Apply full white pattern, select smart setting to be PERSONAL. Adjusting Normal SCALER GAIN RG B to reach W/D and luminance in factory mode

Adjust Normal R, G, B in factory OSD. The 1931 CIE chromaticity (X, Y) co-ordinates shall be:

Table 1. Reading with Minolta CA-110.

Picture Mode	x	y
Normal (Original)	0.276 ± 0.010	0.283± 0.010

Luminance > 400 cd/m² in the center of the screen when Smart picture at contrast 100% and brightness 100%.

Set color temp is "WARM" or "COOL", their gains are as table 2. They should be saved in EEPROM by the auto-alignment station of factory.

Table 2. relationship between three kinds of color temp

	Normal	Warm	Cool
Scaler R Gain	R'	R'	R'-10
Scaler G Gain	G'	G'-5	G'-9
Scaler B Gain	B'	B'-20	B'

If you have not CA-110, the following R,G and B values are for your reference.

	Normal	Warm	Cool
R	125	125	115
G	128	123	119
B	125	105	125

This group setting about color temp is also applied in TV/AV1/AV2/S-video 1/ S-video 2/Comp1/Comp2/PC. It means that TV/AV1/AV2/S-video 1/ S-video 2/Comp1/Comp2/ PC use one same setting.

8.1.2 PC mode Display Adjustment

WHITE-D adjustment (B)

At factory mode apply 1024X768 @60Hz mode with TVBAR100 pattern in

QuantumData 802R/ 802G/802BT as figure 1. . Set smart picture at "Normal" , and set Brightness and contrast to be 50%.

Activate AUTO-COLOR function for auto ADC offset and gain setup.

8. Alignments



Figure 1. TVBAR100

Apply full white pattern , check picture must satisfy table 3.

Table 3. Reading with Minolta CA-210.

Picture Mode	x	y
Normal (Original)	0.276± 0.010	0.283± 0.010

Luminance > 400 cd/m² in the center of the screen when both PC Brightness and Contrast control are 100%.

Display quality adjustment

Use timing mode and uses the POPO (pixel on pixel off) pattern

to adjust the clock until no stripe and adjust the phase until clear picture.

(AUTO ADJUST hot key: press Volume - and Volume + keys together for 1 second.)

Check all preset 6 modes.

Check the analog interface cable

Check the color poor & noise condition of 64 gray scale pattern.

8.1.3 Comp Mode display adjust

White balance adjustment (B)

General set-up:

Equipment : Quantum Data Pattern Generator 801GD or 802G or 802R;
Apply 1080i/50Hz, and the pattern TVBAR100 is shown in figure 1.

Alignment method:

Initial Set-up : Set Smart picture as "Personal" (Brightness=50, Color=50, Contrast=50);
Access to factory OSD first, then to enable AUTO-COLOR to get Comp ADC OFFSET
and Comp ADC GAIN. Check 64 gray scales can be distinguishable.

Color Temp Alignments : Check chromaticity (X, Y) co-ordinates specification as table7. Luminance > 400 cd/m²
in the center of the screen in RICH mode.

8.1.4 HDMI mode display adjustment

Preset HDMI HDCP key

Download HDCP Key

The 284 bytes HDCP key has been programmed in PX66.

HDMI Video HDCP Key Test

(1) Use pattern generator

Equipment: Quantum 802R or 802BT or equivalent equipments.

Pattern : Standard HdcProd Pattern (It's color bar)

Timing : As section 2.5.

Result : The PASS information should be shown on the screen.

(2) Use DVD Player:

Equipment: 1.Pioneer (model: DV-S969AVi) or equivalent equipments.
2.DVD disk with " Macro Vision " protection.

Result : The picture should be shown Normally.

8.2 Software Updarte With ISPWriter

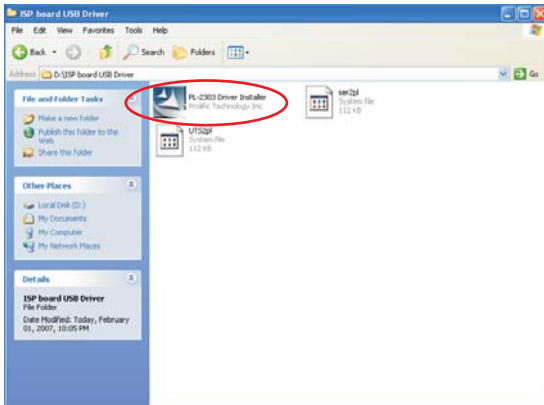
A. Install

- 8.2.1 Run SETUP.exe in ISPWriter2 folder
 8.2.2 Copy all files in ISP3Writer3 folder to ..\Program Files\Trident\ISPWriter2

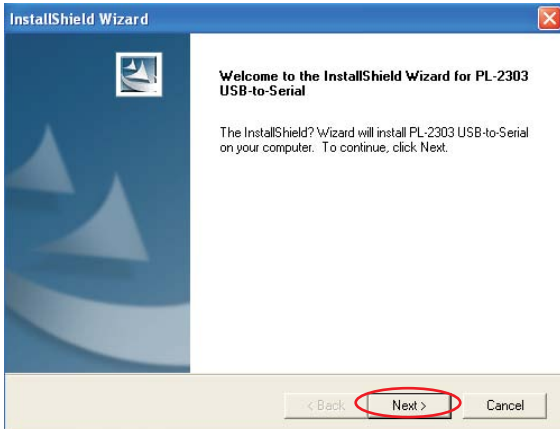
B. Use.

8.2.3 Step

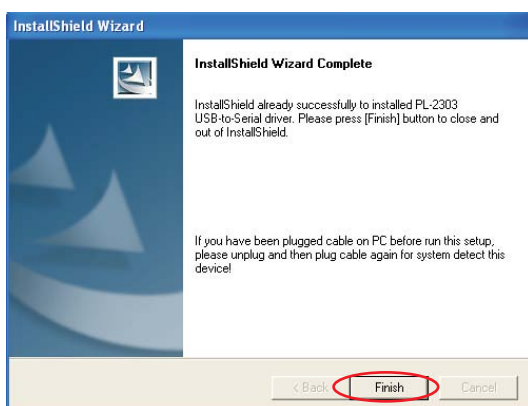
Step 1. Install USB driver to your computer from the ISP board USB Driver file.
 ISP board USB Driver Include three files:



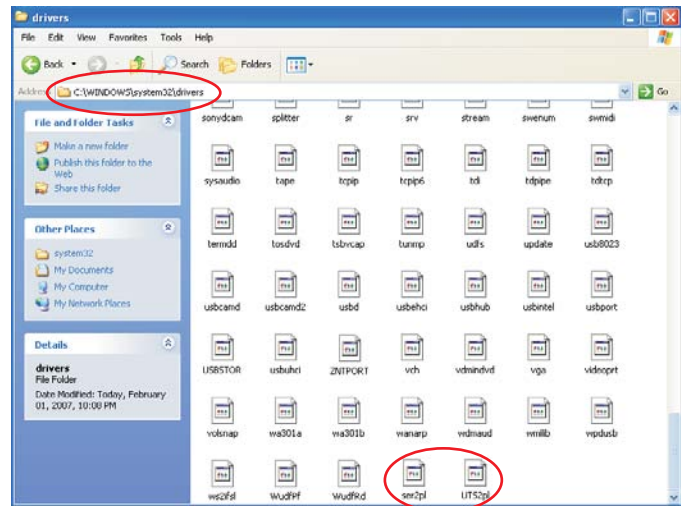
Push "Next".



Push "Finish".

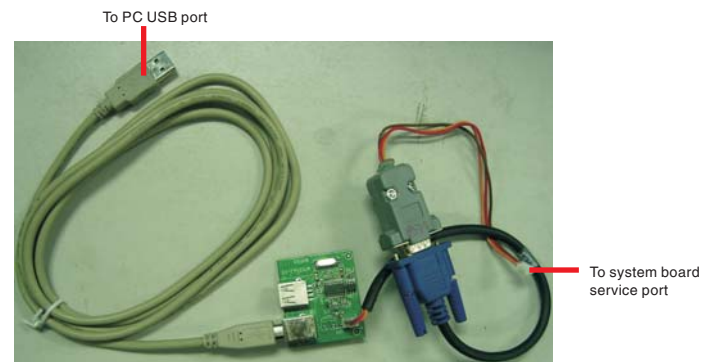


ser2pl.sys & UTS2pl.sys two files should copy to
 C:\WINDOWS\system32\drivers & replace original files.



Step 2: Connect to ISP Board.

Use USB port connecting PC & MT537x Board via ISP board(Code number: 715G537XL2).



8.2.4 Run ISPWriter3.exe, you will see the below window (Diagram 1).

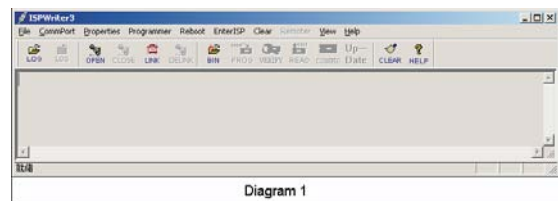


Diagram 1

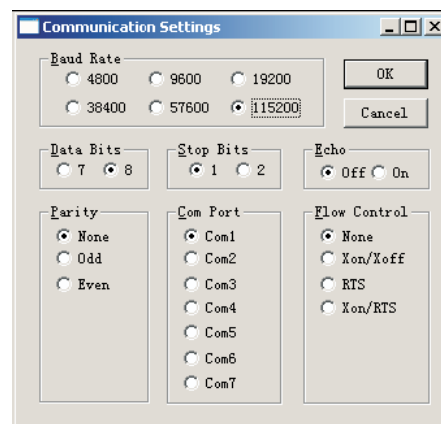


Diagram 2

Press the **OPEN** button to open the COM port of the PC.
 The COM port parameter can be set in Communication Settings Dialog (Diagram 2).
 By **CommPort->Setting**, the Communication Settings Dialog can be opened, if the COM is not opened.

- 8.2.5 Press the **BIN** button to select the bin file which will be programmed into the flash.
The toolbar will be changed as Diagram 3.

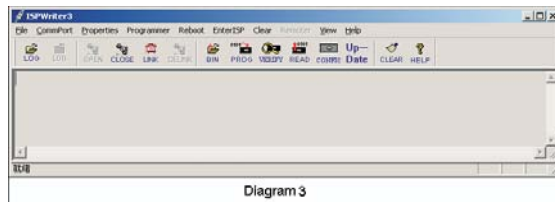


Diagram 3

8.2.5.1 (Configure)

Press the **CONFIG** button to open the Config Dialog(Diagram 4), in this dialog, please select the correct **CPU—Maker—Chip** and input or select the correct **StartAddress**. These information will be saved into the ISPWriter3.ini file. You can directly edit the ISPWriter3.ini file by editing tool.

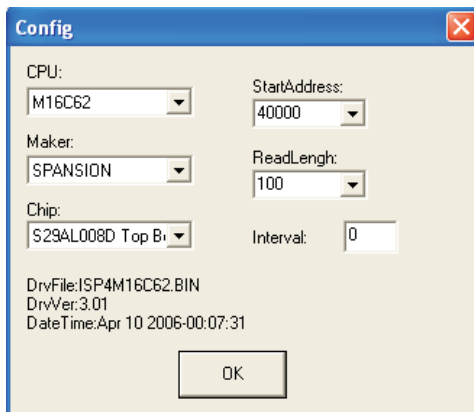
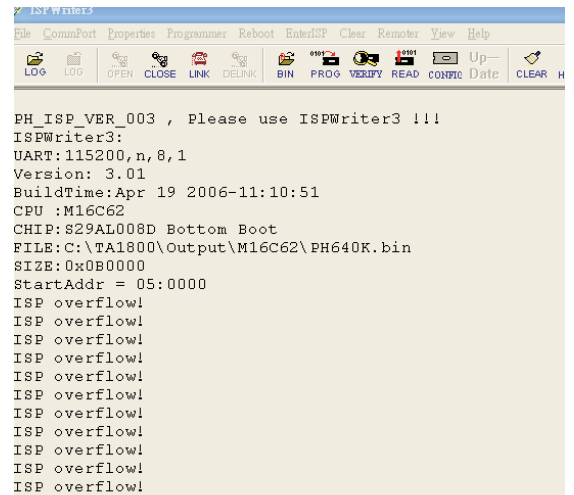


Diagram 4



8.2.8 Reboot

After finish the programming, AC power OFF → ON can reboot the system.

8.2.6 Enter the ISP mode

You will see some information in the textbox when CPU enters the ISP mode.

Just like below:

```
PH_ISP_VER003 , Please use ISPWriter3 !!!
ISPWriter3:
UART:115200,n,8,1
Version: 3.01
BuildTime:Apr 19 2006-11:10:51
```

8.2.6.1

CPU enters ISP mode by hardware way, if PC software (**ISPWriter3.exe**) does not send any data during 30 seconds, the CPU will leave ISP mode and go on to continue normal boot operation (To run TV application).

8.2.6.2

When the system power-on, if the "Power" key on keypad is pressed and be keep for 3 seconds, the CPU will enter ISP mode and send information by UART.

8.2.7 Program

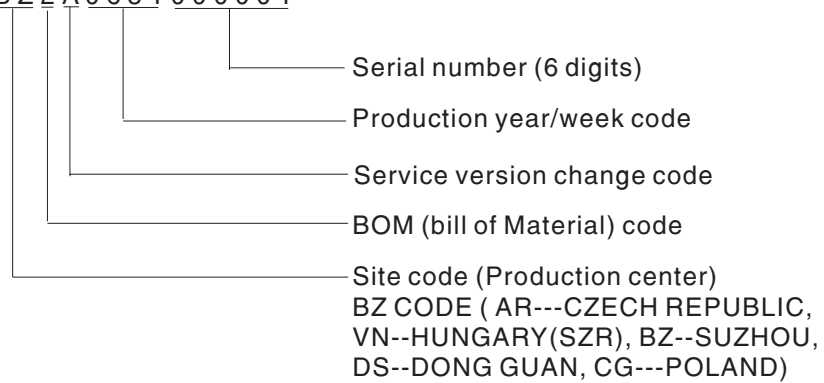
Press the **PROG** button to start the programming.

8.3 Serial Number Definition

BOM Code:

PANEL SUPPLIER	CODE
AU	1
CPT	2
LPL(LG)	3
QDI	4
CMO	5
HSD	6
SVA	7

B Z 2 A 0 6 5 1 0 0 0 0 1



9. Circuit Descriptions, Abbreviations List and IC Data Sheets

Index of this chapter
 9.1 Circuit Descriptions
 9.2 Abbreviations List
 9.3 IC Data Sheets

9.1 Circuit Descriptions

Circuitry Description for 37&42TA2800 model

This LCD-TV PFL7422 use 1920X1080 WUXGA panel .Support PC analog input up to **1920X1080 60Hz mode** ,and support NTSC-M 、PAL D/K 、PAL B/G 、PAL I 、SECAM B/G and SECAM D/K(RF), Y/C, CVBS. Also for Y Pb Pr signal input from SDTV to HDTV (480i, 480p, 720p, 1080i ,1080P 60Hz and 576i, 576p, 720p, 1080i, 1080P 50Hz), digital port for HDMI(480iW, 576iW, 480p, 576p, 480pW, 576pW, 720p 50/60Hz, 1080i 50/60Hz, 1080p 50/60Hz.)

This F3 platform LCD - TV use Trident LX66 scalar IC , which has embedded ADC for HDTV/Analog D-sub input up to 108MHz/10bit, digital port for HDMI/DVI decoder digital data input , 3D digital comb video decoder for CVBS and Y/C input, TXT decoder and built-in dual 8/10-bit LVDS transmitter scaler .

There are video processing and some audio function in scaler board. The 47/42/37PFL7422 uses Trident SVP-LX66 as Scaler engine, which has embedded Analog D-SUB, digital HDMI receiver, scaling input signal to panel OSD mapping and simple 3D de-interlacer. The extra DDR is to accomplish video frame rate conversion and to provide OSD and de-interlacer with enough memory.

The external CPU (M30620SPGP) can provide control signals such as backlight control, RC (Remote Control), detect keypad input, IIC I/O communication, TV tuning control, sound control and power control .

Embedded Video decoder is used to execute all video signal processing except HDTV. HDTV is go through embedded ADC converter. 3D comb and 3D de-interlacer are included in scaler. Scaler can decode CC, TT, V-chip data to display.

In AP model, Tele-text (TT) function is necessary, but China Model is no need.

One audio decoder MSP34XXG is used for TV sound processing, and output to TPA3100D2PHPR . Post D-class amplifier is in scaler board.

Scaler board (Video section) Block diagram

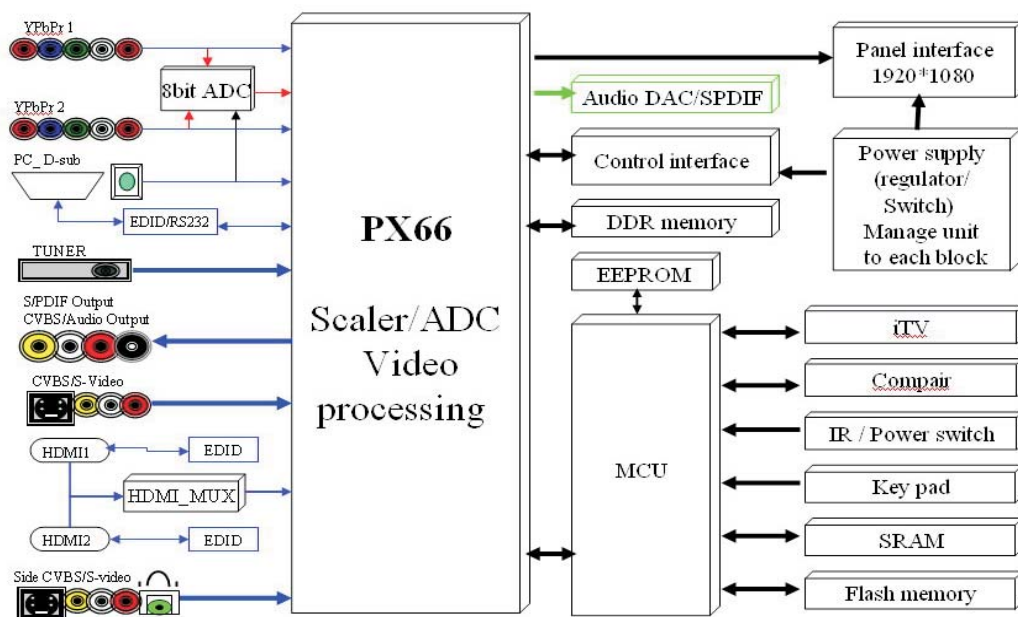


Fig 1 47/42/37PFL7422 Video block diagram

Scaler board (Audio section) Block diagram

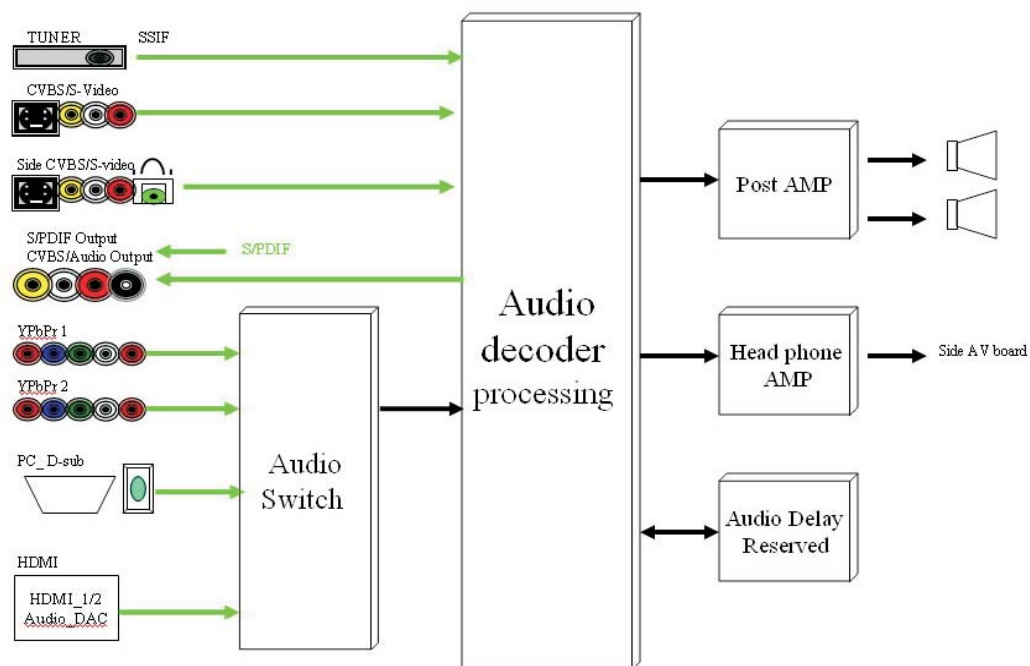


Fig 2 47/42/37PFL7422 Audio block diagram

Description of TV system

A TV tuner with remote control will be mandatory for 93 、98 and 79 model.

Tuner and sound decoder deviation:

	79	98	93
Tuner	FQ1216PN/I H-5 94TNPALALL P1	FQ1216ME/IH-5 94VPASEALL P1	FQ1256/I H-5 94T PALBDI 1P
MSP	MSP3450G-QI-B8V3 56T 593504	MSP3410G-QI-B8V3 56G 593901	MSP3410G-QI-B8V3 56G 593901

9.2 Abbreviations List

CSM	Customer Service Mode
ATSC	Advanced Television Systems Committee, the digital TV standard in the USA
DVD	Digital Versatile Disc
EEPROM	Electrically Erasable and Programmable Read Only Memory
3DNR	Temporal (3D) Noise Reduction
AGC	Automatic Gain Control: algorithm that controls the video input of the feature box
FM	Field Memory or Frequency Modulation
AM	Amplitude Modulation
AP	Asia Pacific
ASF	Auto Screen Fit: algorithm that adapts aspect ratio to remove horizontal black bars without discarding video information
ATV	See Auto TV
Auto TV	A hardware and software control system that measures picture content, and adapts image parameters in a dynamic way
AV	External Audio Video
AVIP	Audio Video Input Processor
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz
ComPair	Computer aided rePair
CP	Connected Planet / Copy Protection
CSS	Content Scrambling System; An encryption method for MPEG-2 video on DVDs. The algorithm and keys required to decode the disc are stored on the DVD-player
CVBS	Composite Video Blanking and Synchronization
DFU	Directions For Use: owner's manual
DNR	Digital Noise Reduction: noise reduction feature of the set
DSP	Digital Signal Processing
DST	Dealer Service Tool: special remote control designed for service technicians
DTCP	Digital Transmission Content Protection; A protocol for protecting digital audio/video content that is traversing a high speed serial bus, such as IEEE-1394
DVI(-d)	Digital Visual Interface (d= digital only)
EAS	Emergency Alert Signalling; A cable TV standard (SCTE18) to signal emergency information to digital terminal devices
E-DDC	Enhanced Display Data Channel (VESA standard for communication channel and display). Using E-DDC, the video source can read the EDID information from the display.
EDID	Extended Display Identification Data (VESA standard)
EMI	Electro Magnetic Interference
EMM	Entitlement Management Message
EPLD	Erasable Programmable Logic Device
EU	Europe
FBL	Fast BLanking: DC signal accompanying RGB signals
FDS	Full Dual Screen (same as FDW)
FDW	Full Dual Window (same as FDS)
FLASH	FLASH memory
FTV	Flat TeleVision
H	H_sync to the module
HD	High Definition
HDD	Hard Disk Drive

NTSC	National Television Standard Committee. Color system mainly used in North America and Japan. Color carrier NTSC M/N= 3.579545 MHz, NTSC 4.43= 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
NVM	Non-Volatile Memory: IC containing TV related data such as alignments
OSD	On Screen Display
PLL	Phase Locked Loop. Used for e.g.
LVDS	Low Voltage Differential Signalling
PAL	Phase Alternating Line. Color system mainly used in West Europe (color carrier= 4.433619 MHz) and South America (color carrier PAL M= 3.575612 MHz and PAL N= 3.582056MHz)
PCB	Printed Circuit Board (same as PWB)
PCM	Pulse Code Modulation
PWB	Printed Wiring Board (same as "PCB")
PWM	Pulse Width Modulation
QAM	Quadrature Amplitude Modulation; modulation method
RAM	Random Access Memory
RGB	Red, Green, and Blue. The primary color signals for TV. By mixing levels of R, G, and B, all colors (Y/C) are reproduced.
RC	Remote Control RC5 / RC6 Signal protocol from the remote control receiver
RESET	RESET signal
ROM	Read Only Memory
SAM	Service Alignment Mode
SCART	Syndicat des Constructeurs d'Appareils Radiorecepteurs et Televisieurs
SCL	Serial Clock I2C
SCL-F	CLock Signal on Fast I2C bus
SD	Standard Definition
SDA	Serial Data I2C
SDA-F	DAta Signal on Fast I2C bus
SDI	Serial Digital Interface, see [ITU-656]
SDRAM	Synchronous DRAM
SECAM	SEquence Couleur Avec Memoire. Color system mainly used in France and East Europe. Color carriers= 4.406250 MHz and 4.250000 MHz
SIF	Sound Intermediate Frequency
SMPS	Switched Mode Power Supply
SOG	Sync On Green
SOPS	Self Oscillating Power Supply
I2C	Integrated IC bus
I2D	Integrated IC Data bus
I2S	Integrated IC Sound bus
IB	In Band channel
IF	Intermediate Frequency
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.
IR	Infra Red
IRQ	Interrupt Request
LATAM	Latin America
LCD	Liquid Crystal Display
LED	Light Emitting Diode
LPL	LG.Philips LCD (supplier)
MUTE	MUTE Line

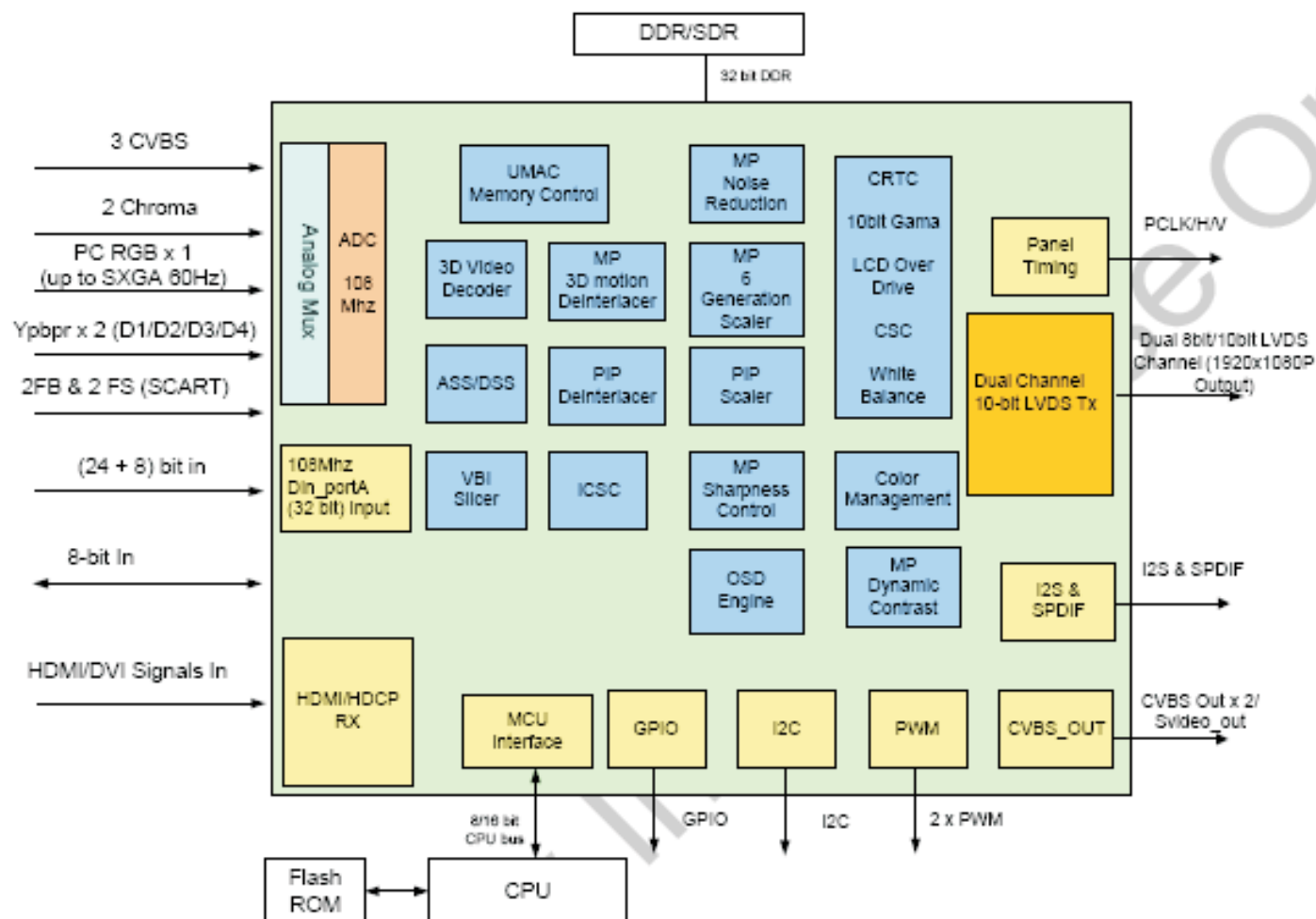
TFT	Thin Film Transistor
SRAM	Static RAM
STBY	STandBY
SOG	Sync On Green
SVGA	800x600 (4:3)
SVHS	Super Video Home System
SW	Software
SWAN	Spatial temporal Weighted Averaging Noise reduction
SXGA	1280x1024
TMDS	Transmission Minimized Differential Signalling
UXGA	1600x1200 (4:3)
V	V-sync to the module
VCR	Video Cassette Recorder
VESA	Video Electronics Standards Association
VGA	640x480 (4:3)
VL	Variable Level out: processed audio output toward external amplifier
VSB	Vestigial Side Band; modulation method
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
WXGA	1280x768 (15:9)
XGA	1024x768 (4:3)
Y	Luminance signal
YPbPr	Component video. Luminance and scaled color difference signals (B-Y and R-Y)

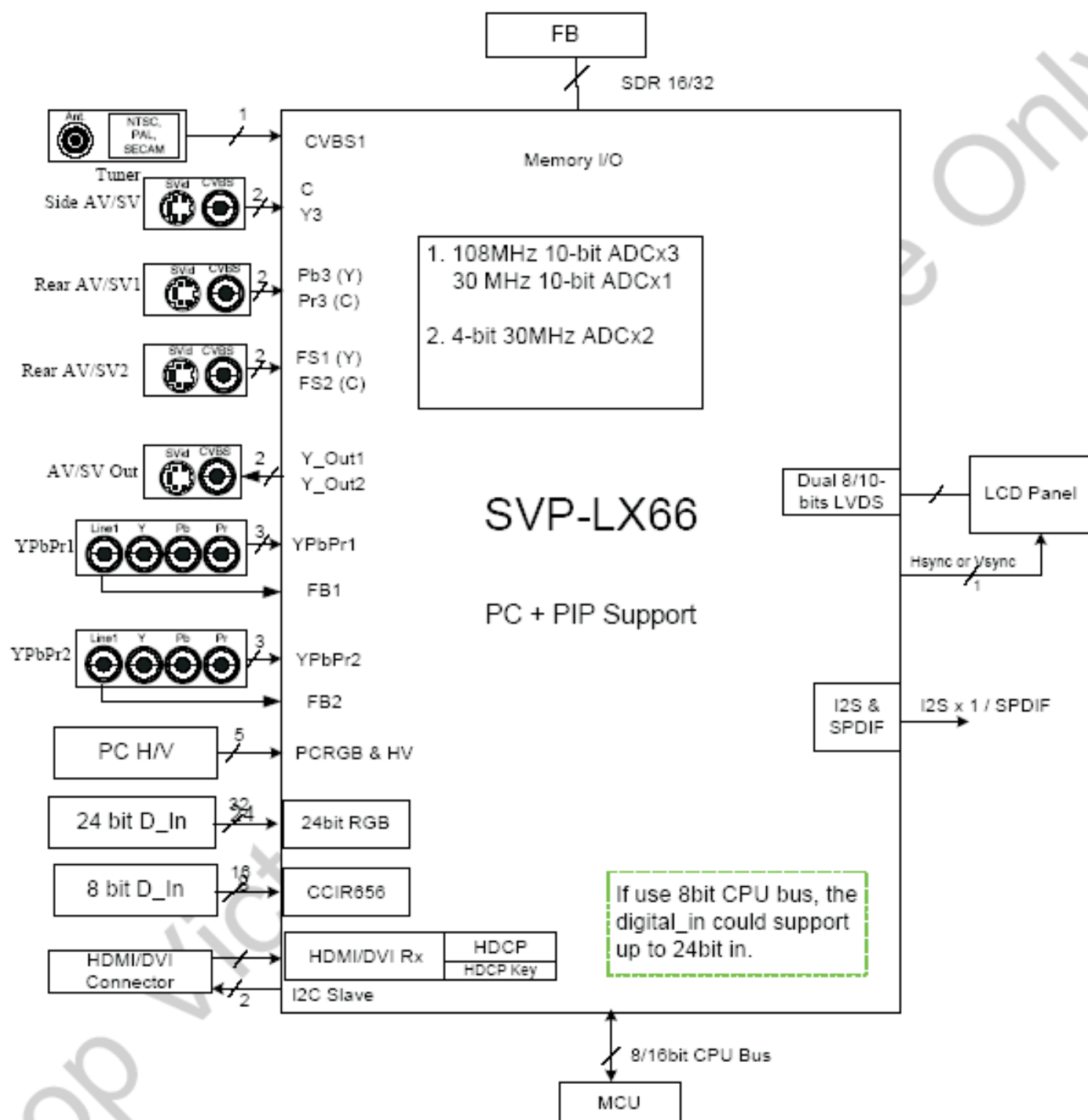
9.3 IC Data Sheets

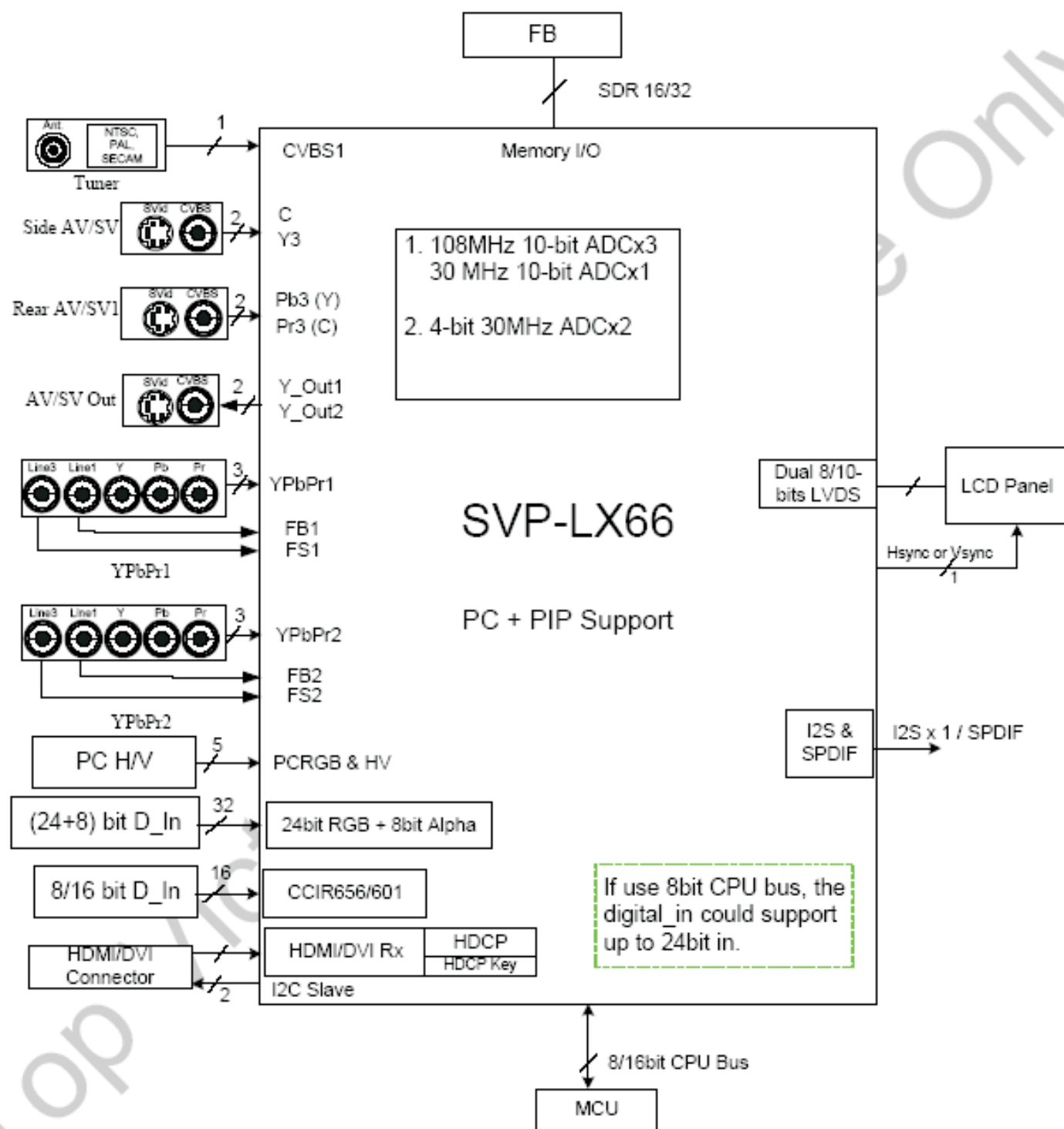
This section shows the internal block diagrams and pin configurations of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

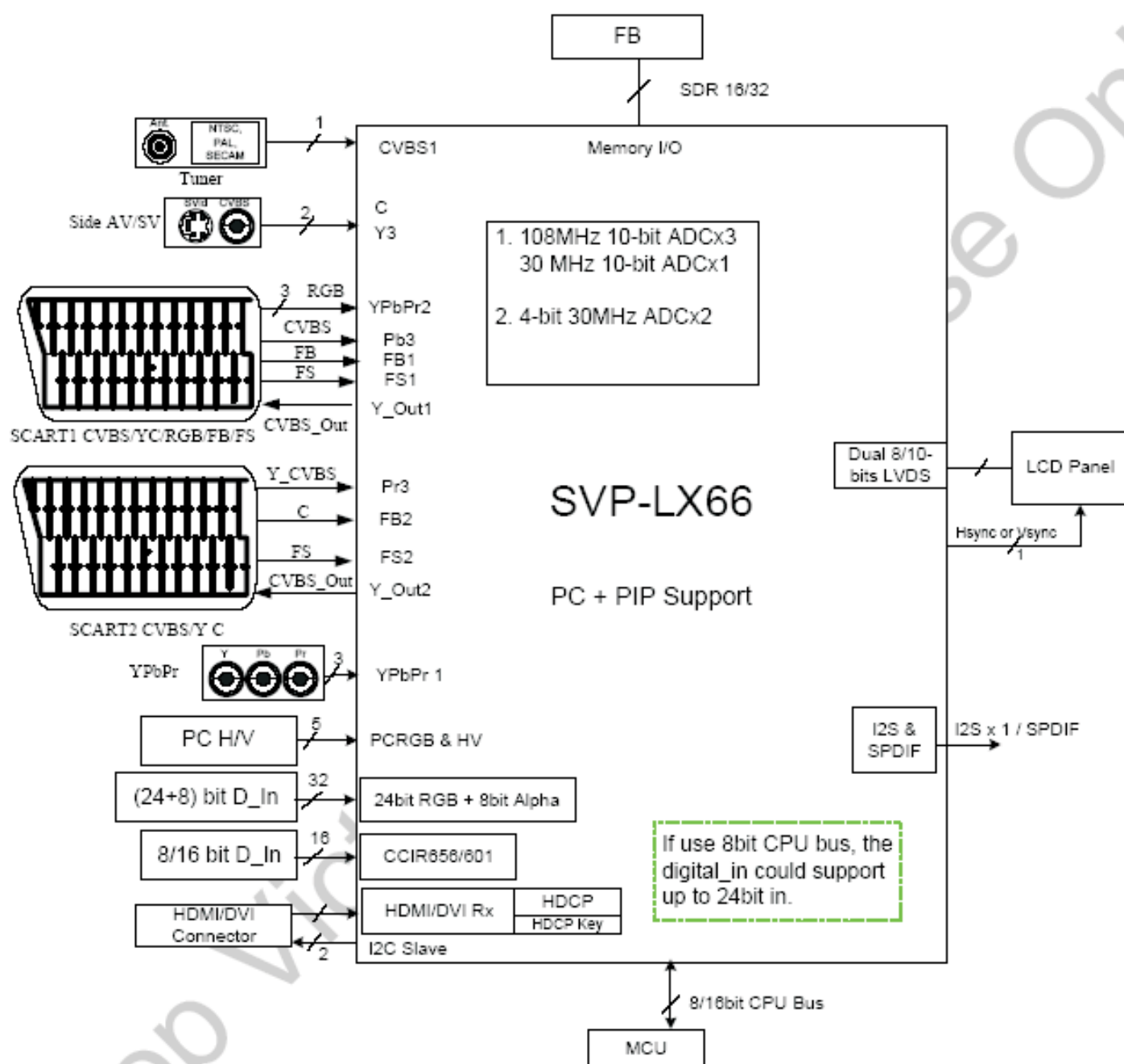
9.3.1 IC Data Sheets-SVP-LX66(U4202)

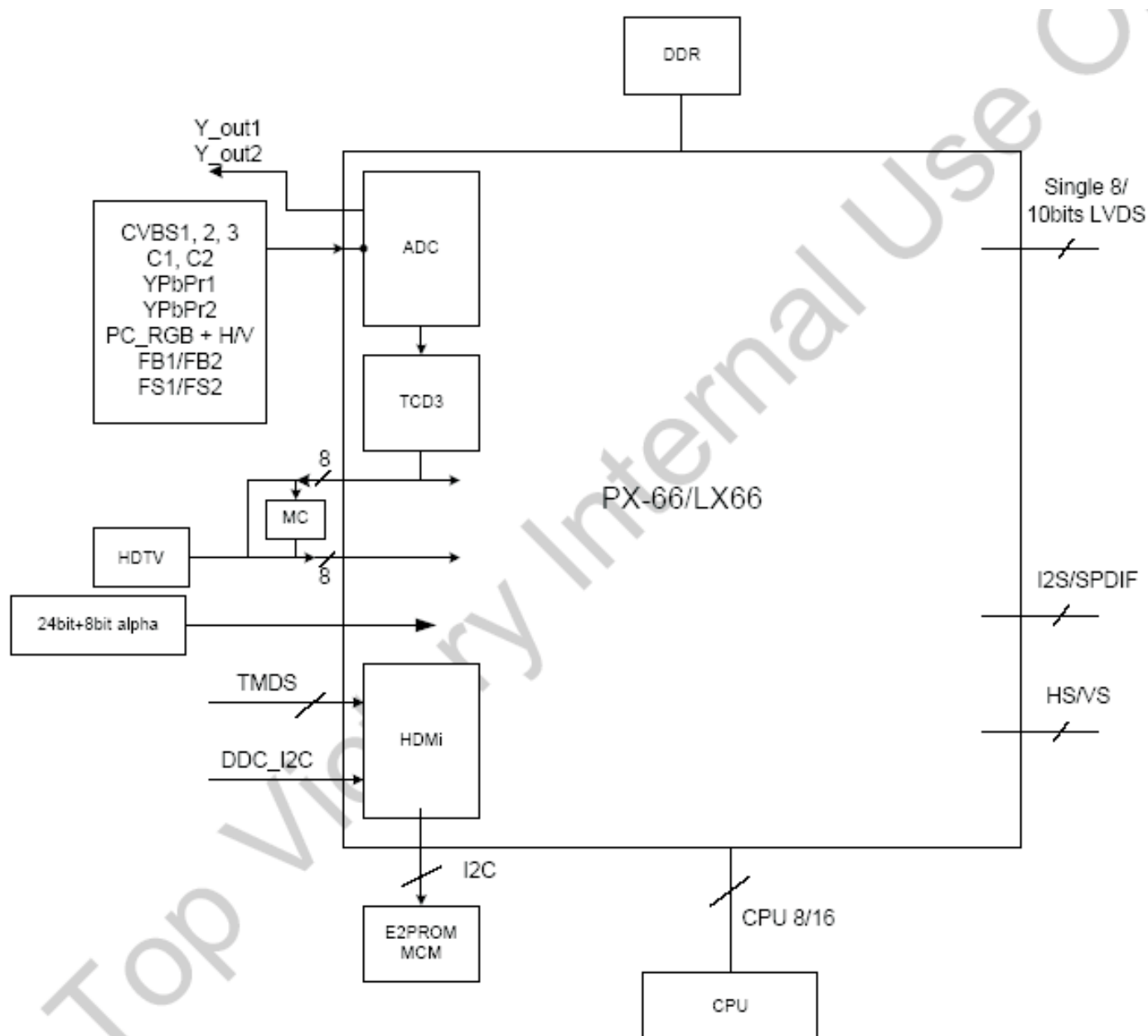
Block Diagram









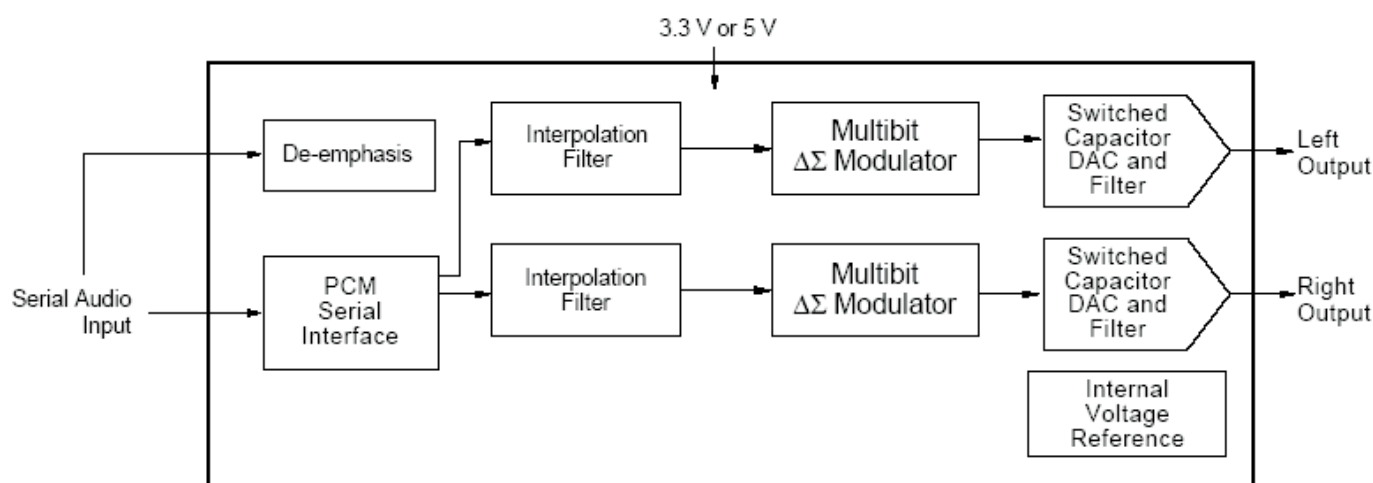


Pin assignment

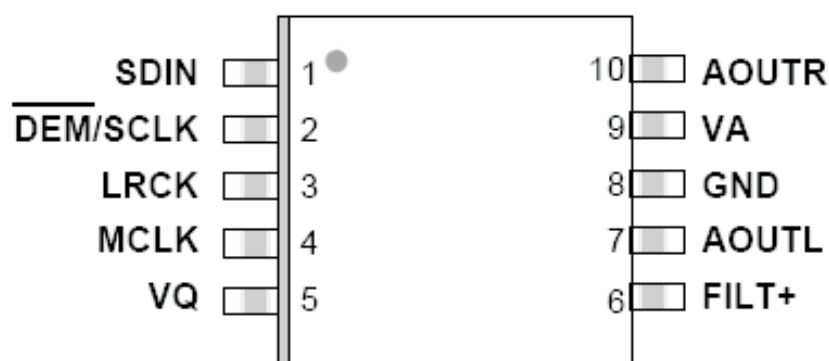
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																																					
A	MD27	MD26	MD25	MD23	MD21	DQM2	MD19	MD12	DQM1	MD7	MD6	DQM0	MD2	TA1P	TB1P	TC1P	TCLK1P	TD1P	TE1P	TA2P	A																																				
B	DQ83	DQ83	VSS	VDDM	MD22	DQ82	MD18	MD13	DQ81	MD8	MD5	DQ80	MD1	TA1M	TE1M	TC1M	TCLK1M	TD1M	TE1M	TA2M	B																																				
C	MD28	MD29	MD30	VDDM	MD24	VSS	MD17	MD14	VSS	MD9	MD4	VSS	MD0	VDDC	VDDC	LVD8_VSSD	LVD8_VDDO	LVD8_VSSO	LVD8_VSSO	TE2P	C																																				
D	MCK0	VSS	MD31	VDDM	VDDM	MD20	MD16	MD15	MD11	MD10	VDDM	MD3	VDDC	VDDC	VDDC	LVD8_VDDO	LVD8_VDDO	LVD8_VDDO	TE2M	TC2P	D																																				
E	MCK0#	VDDR	MVREF	VSSR	VDDM	VDDM	VSSR	VDDR	VDDM	VDDM	VDDM	VDDM	VDDC	VDDC	VDDC	LVD8_VSSA	LVD8_VDDA	LVD8_VSSA	TC1M	TCLK2P	E																																				
F	MA11	MA10	MA9	MA8	VDDM	<table><tr><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td></tr><tr><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td></tr><tr><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td></tr><tr><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td></tr><tr><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td></tr><tr><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td><td>VSS</td></tr></table>										VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSS	VSSF	TESTMOD	RESET	TCLK2M	TD2P	F
VSS	VSS	VSS	VSS	VSS	VSS																																																				
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VSS	VSS	VSS	VSS	VSS	VSS																																																				
G	MA4	MA5	MA6	MA7	VDDM	VDDC	PWM0	INTN	TD2M	TE2P	G																																														
H	MA3	MA2	MA1	MA0	VDDC	VDDC	SDA	SCL	TE2M	VSS	H																																														
J	CAS#	RAS#	CS1#	CS0#	VDDC	VDDC	CPU_CS	ALE	WR#	RD#	J																																														
K	WE#	CLKB	BA0	BA1	VDDC	VDDC	AD4	AD5	AD6	AD7	K																																														
L	RXC+	RXC-	TMDS_GND	PVCC	VSS	VDDH	AD9	AD1	AD2	AD3	L																																														
M	RX0+	RX0-	TMDS_GND	AVCC	ANTSTG	VDDH	ADDR7	ADDR6	ADDR5	ADDR4	M																																														
N	RX1+	RX1-	TMDS_GND	AVCC	AVCC	VDDH	ADDR0	ADDR1	ADDR2	ADDR3	N																																														
P	RX2+	RX2-	TMDS_GND	AVCC	DCND	VDDH	V5	V56	H5	NC	P																																														
R	TMDS_GND	AVDDLL	PAVSS2	PLF2	REGVCC	VDDC	VDDH	VDDH	DFB_9	DFB_8	R																																														
T	AVSSLL	PAVSS1	PAVDD1	PAVDD2	AVSS_ADC1	AVSS_AD_C4	AVSS_AD_C2	AVDD_AD_C3	AVSS_AD_C3	PWRSV	DSCL	VDDH	VDDH	VDDC	VDDC	VSS	DFB_10	DFB_11	DFB_CLK	DFB_12	T																																				
U	AVDDAP	MLF1	AVDD3_OUTBUF	FB2	AVDD_ADC1	AVDD_AD_C4	AVDD_AD_C2	PC_R	AVDD3_ADC2	AIN_VS	DSDA	VS	DFA_22	DFA_15	DFA_14	DFA_8	DFA_7	DFB_15	DFB_14	DFB_13	U																																				
V	AVSSAP	CVBS_O	AVDD3_B0_ASS	FS1	VREFN_1	Y_G1	VREFN_2	FR_R3	C	AIN_HS	SCDT	SD0	DFA_21	DFA_16	DFA_13	DFA_9	DFA_8	DFA_1	DFB_HS	DPE_VS	V																																				
W	XTALI	CVBS_O	AVSS_B0_ASS	FS2	VREFP_1	Y_G2	VREFP_2	FR_R2	FB_B1	PC_B	AUDIOCLK	SEDF	DFA_20	DFA_17	DFA_12	DFA_10	DFA_5	DFA_2	DFA_0	DFB_DE	W																																				
Y	XTALO	AVSS_O	AVDD3_ADC1	CVBSI	FE1	Y_G3	PC_G	FR_R1	FB_B1	FB_B3	SCK	DFA_23	DFA_19	DFA_18	DFA_CLK	DFA_11	DFA_4	DFA_3	DFA_HS	DFA_VS	Y																																				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20																																					

9.3.2 IC Data Sheets-CS4344(U4201)

Block Diagram

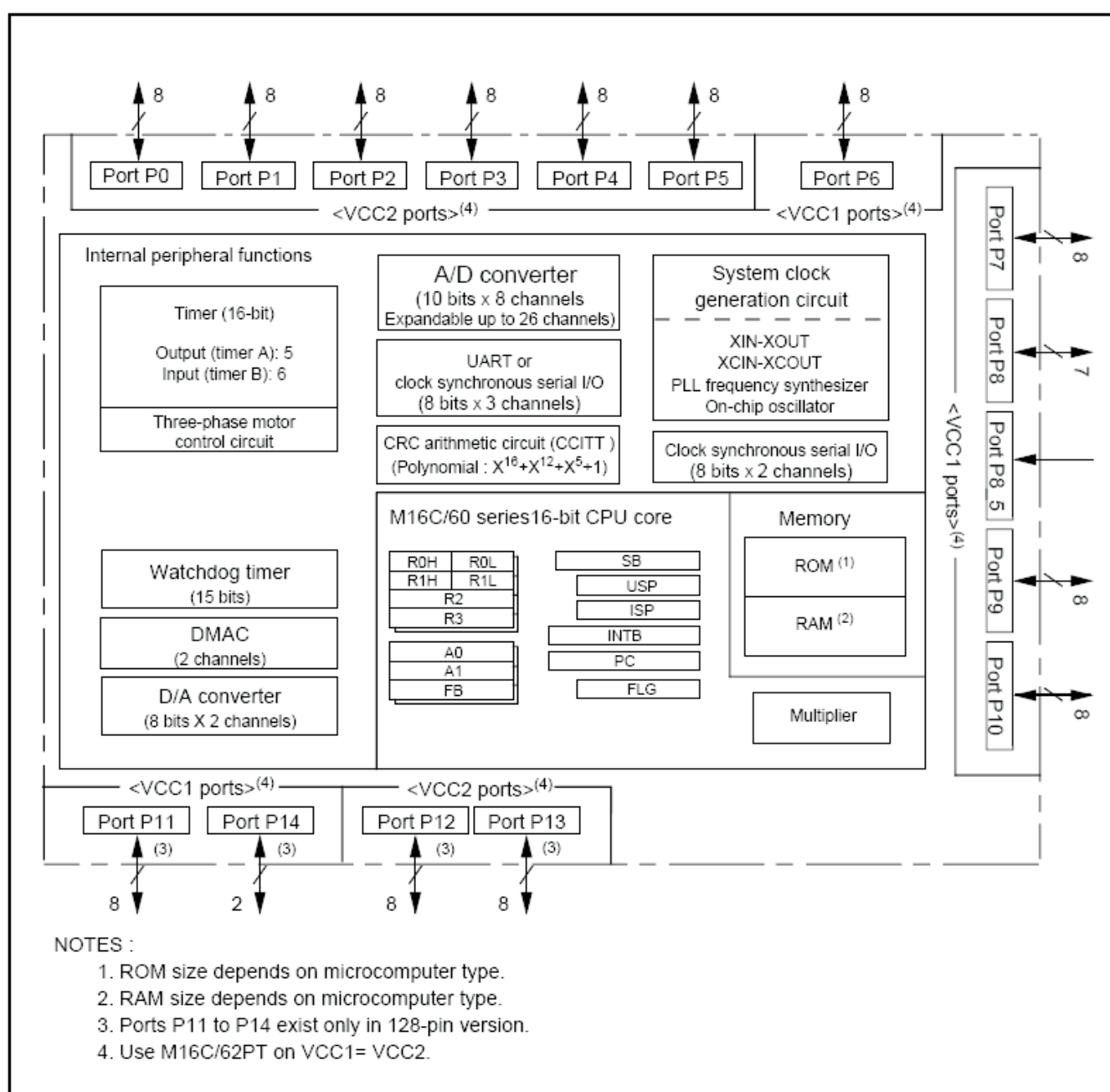


PIN DESCRIPTIONS

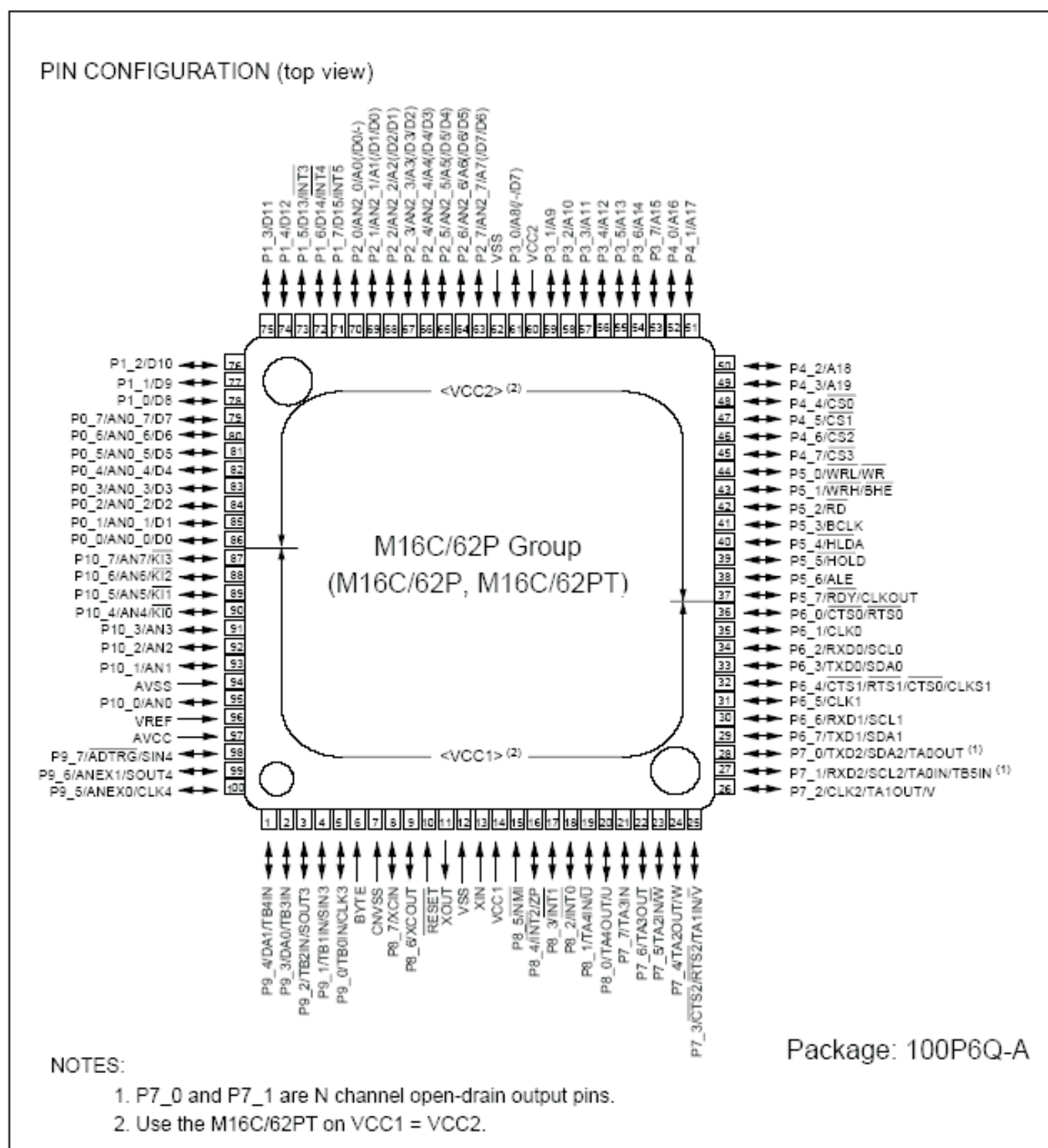


9.3.3 IC Data Sheets-M30300SAGP(U4102)

Block Diagram

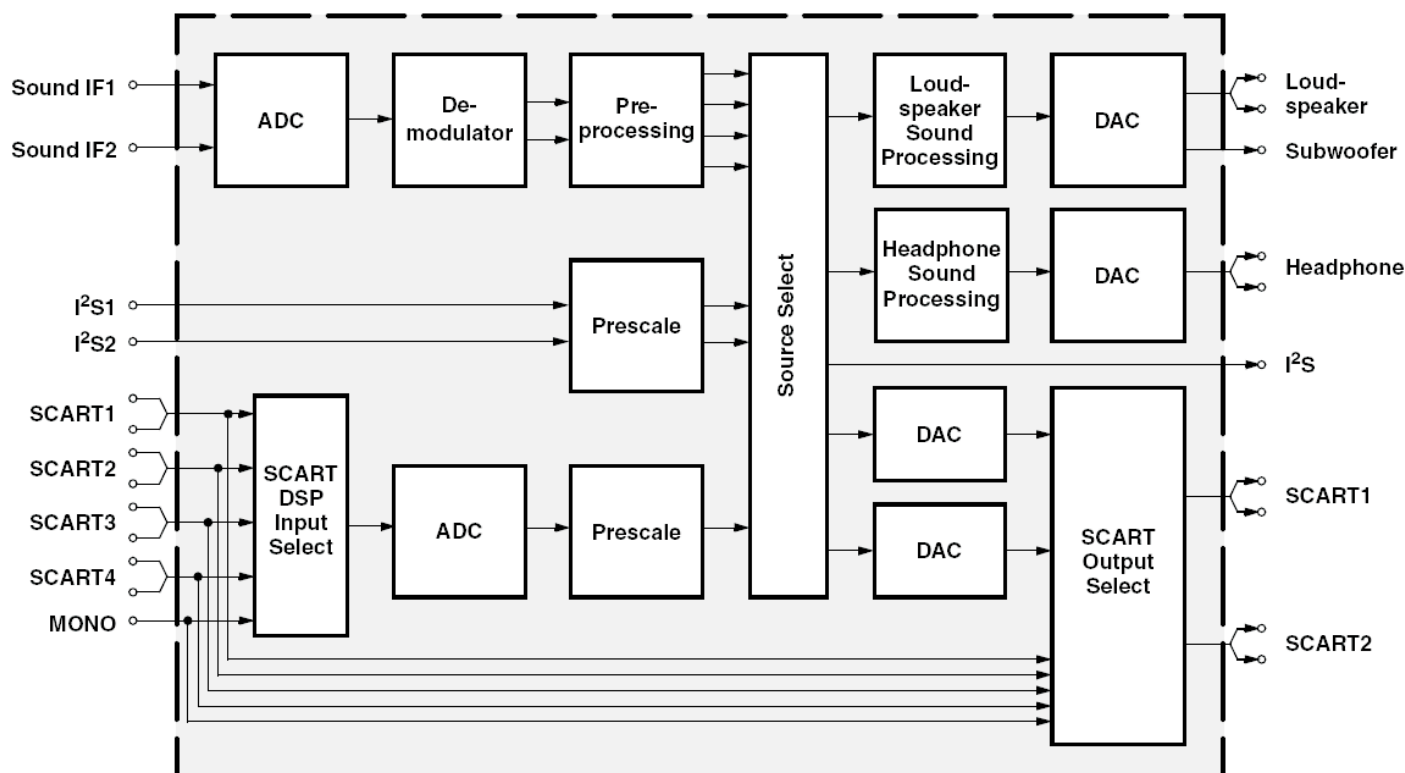


Pin assignment

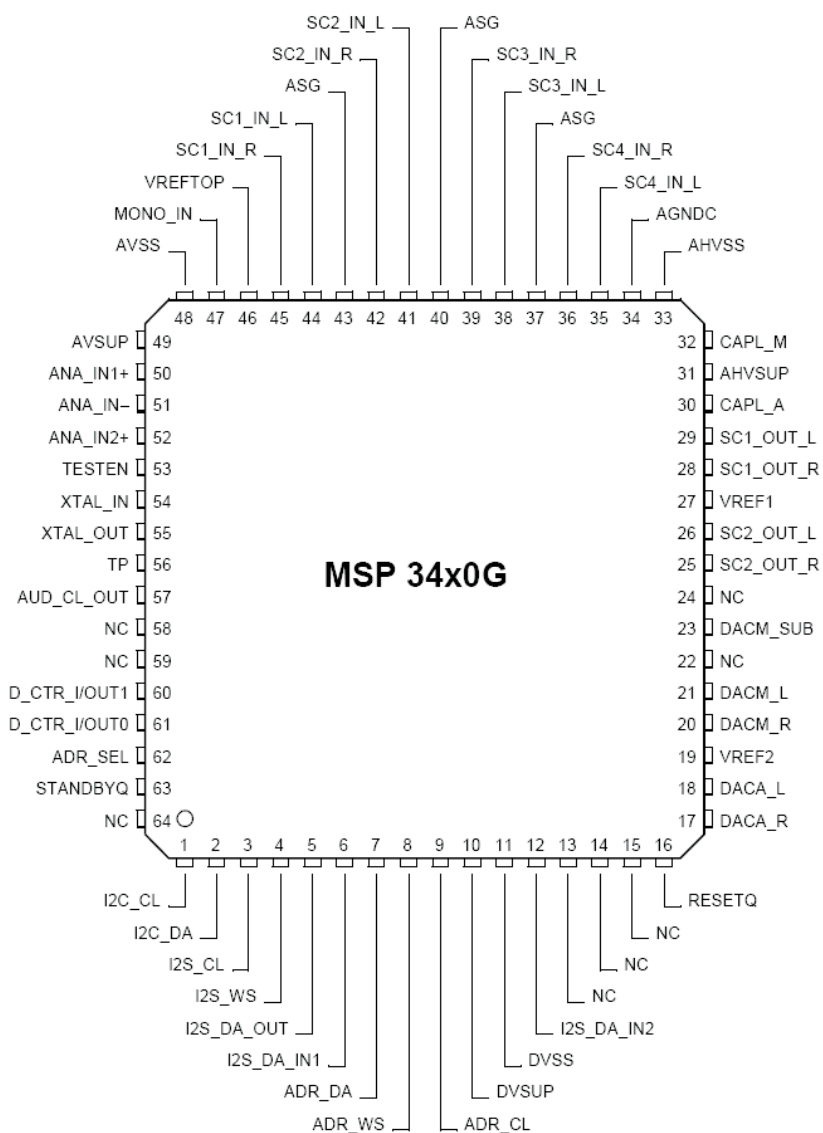


9.3.4 IC Data Sheets-MSP3410G(U6202)

Block Diagram

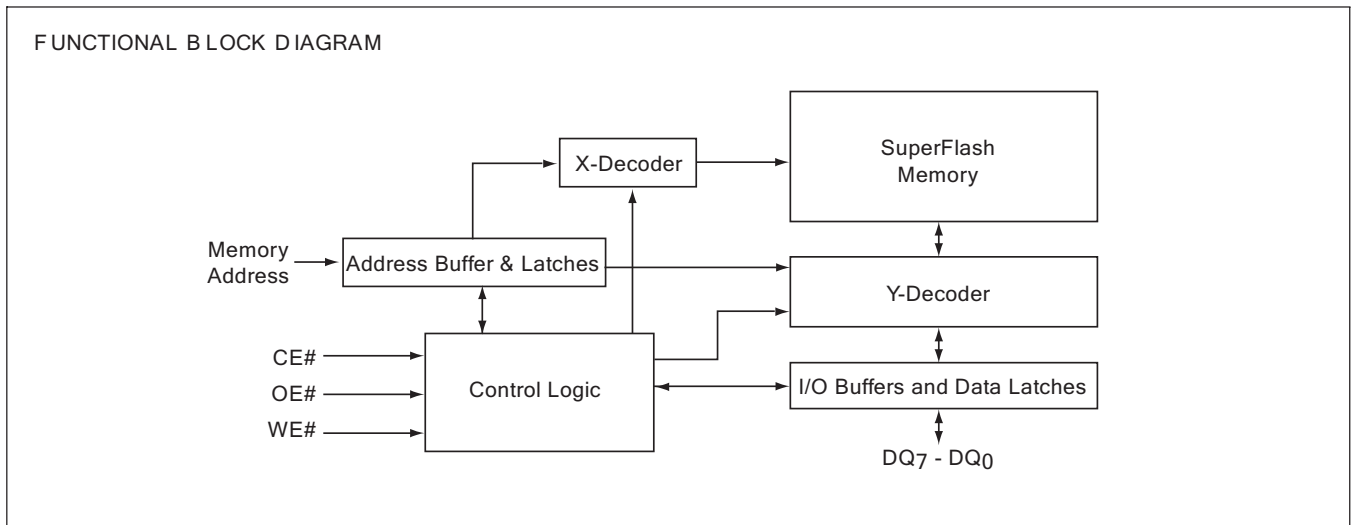


Pin assignment

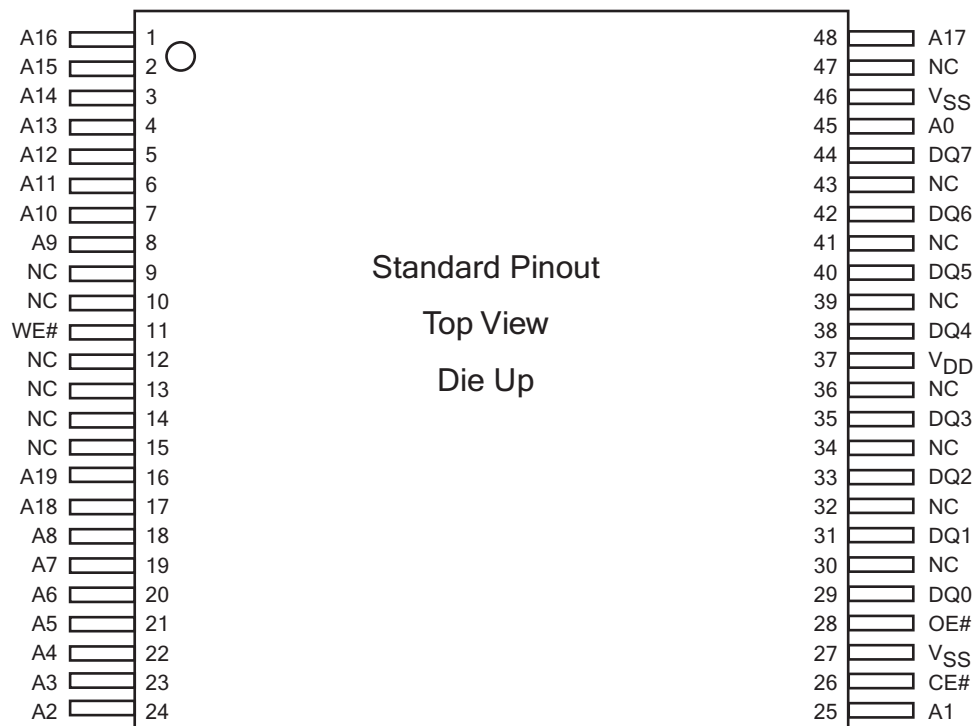


9.3.5 IC Data Sheets-SST39VF088(U4502)

Block Diagram



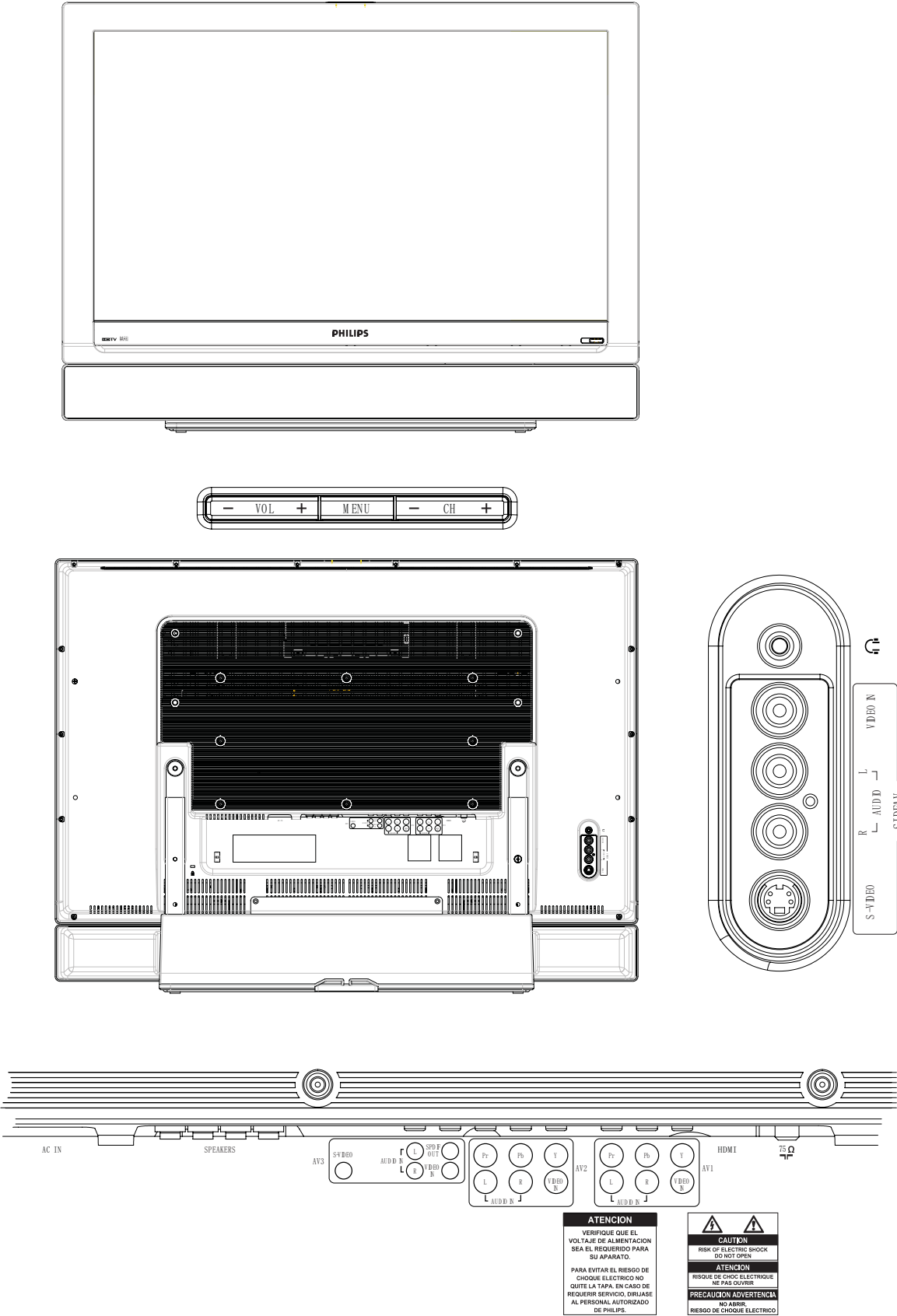
Pin assignment



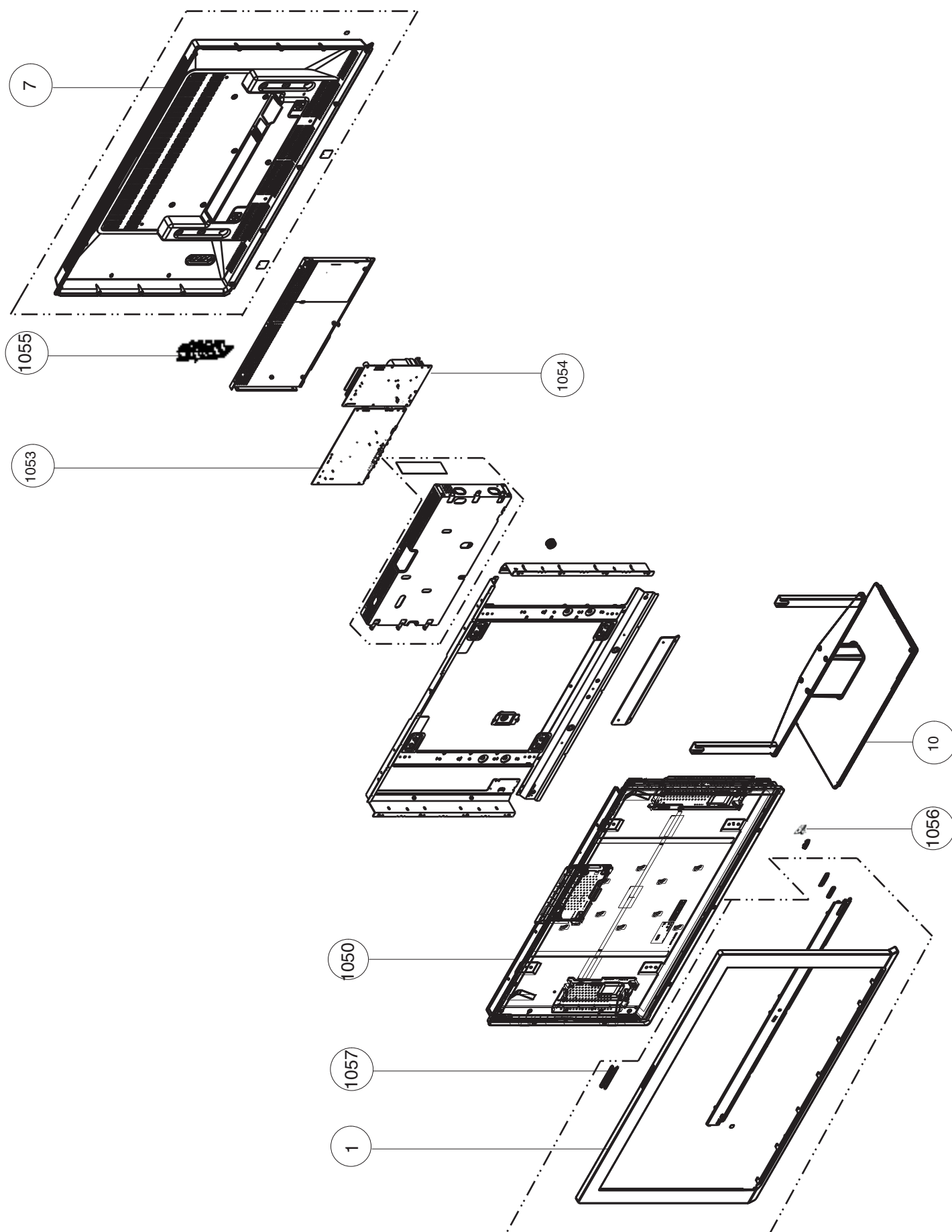
10.Recommended/Spare Parts List

- Index of this chapter
- 10.1 Styling Sheet
- 10.2 Recommended Parts List
- 10.3 Spare Parts List

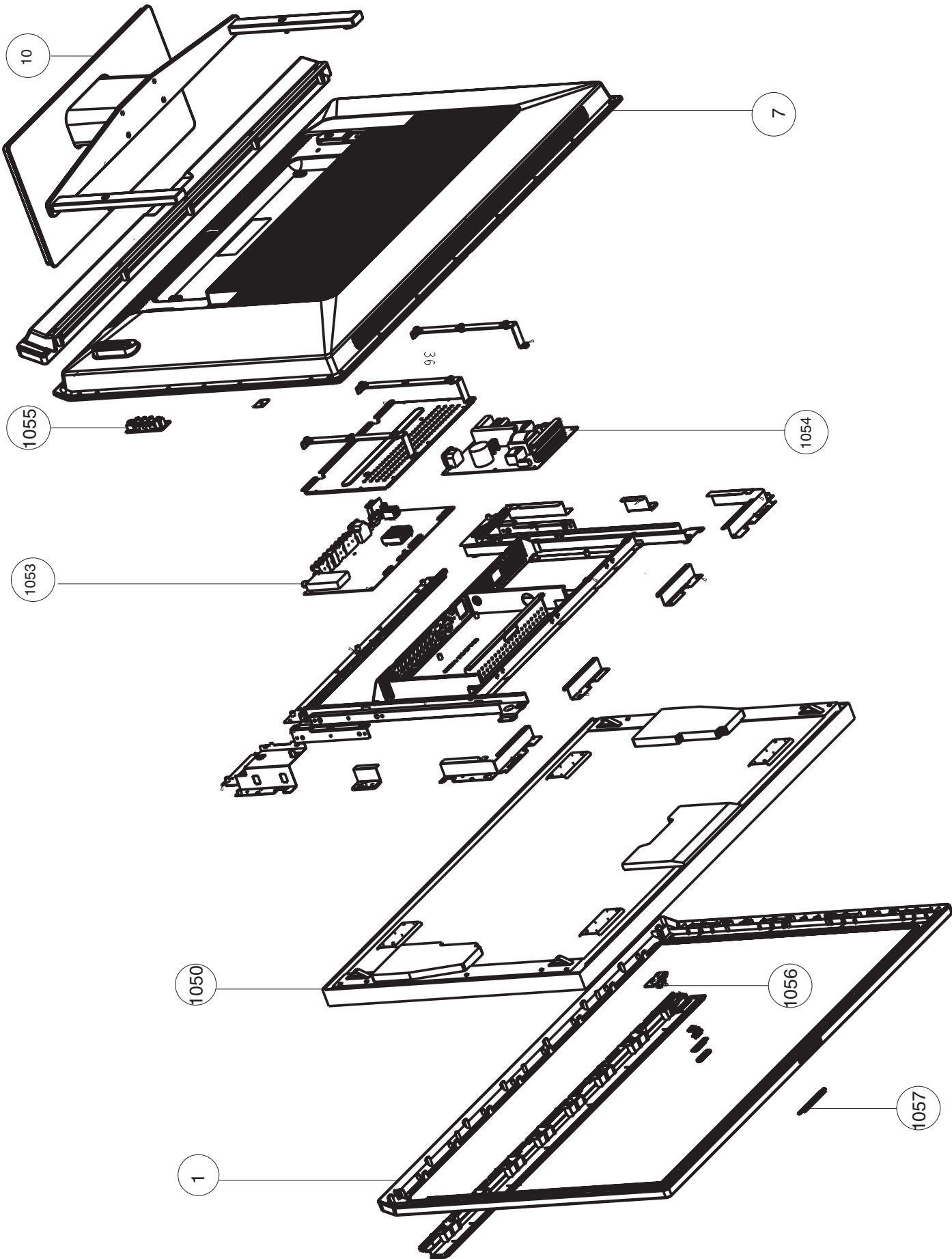
10.1 Styling Sheet



Type: 37TA2800



Type: 42TA2800



Mechanical Parts List

Styling:				37TA2800/98(LPL)	42TA2800/98(LPL)
Item	Philips 12NC	TPV 18NC	Description		
10		P37T0047 1ABS ACP	BASE	√	
10		P37T0058 1ABS ACP	BASE		√
7		705TP734022	REAR COVER ASSY	√	
7		705TZ734003	BACK COVER ASSY		√
1053		CBPF6T2CZA1	Scalar board Assembly	√	
1053		CBPF6T2CZA2	Scaler Board ass'y		√
1054		ADPF24220R1P	Power Pcb Assy	√	
1054		ADPF24300R1P	Power Pcb Assy		√
1050		750TVGQ0WX121N	PANEL LC370WX1-SLB1 LPL	√	
1050		750TVGT0X5D11N	PANEL LC420WX5-SLD1 LPL		√
1		705TP734021	FRONT BEZEL ASSY	√	
1		705TZ734002	FRONT BEZEL ASSY		√
1055		PTPF6PA1	Side_AV_board_vision_D	√	
1055		PTPF6PA4	SIDE_AV PCB ASSY		√
1056		IRPF7ZA1	IR board	√	
1056		IRPF7ZA1	IR board		√
1057		KEPF7ZA1	Key board	√	
1057		KEPF7ZA1	Key board		√

Software change record

Philips Model	scaler board	Panel	Latest software release		
			SW name	Version	Effective date
37TA2800/98	CBPF6T2CZA1	LPL	100GZ101000011	V2.00	2007.03.02
42TA2800/98	CBPF6T2CZA2	LPL	100GZ101000041	V2.00	2007.03.02

Notes: The latest version of firmware can replace all of previous versions.

AL2+ Project Panel to LVDS cable

Project	Panel	Item	Code NO.	Description	LVDS Item	Code NO.	Description
37TA2800/98	LPL	1050	750TVGQ0WX121N	PANEL LC370WX1-SLB1 LPL	2	095T8018 30A14 FP	WIRE HARNESS 30P-30P 150mm 47746
42TA2800/98	LPL	1050	750TVGT0X5D11N	PANEL LC420WX5-SLD1 LPL	4	095T8018 30A13 FP	WIRE HARNESS 30P-30P 230mm 47757

AL2+ P-Cord, RC.

MODEL	P-Cord		RC	
	Code NO.	Description	Code NO.	Description
37TA2800/98(LPL)	089G404A18N IS	POWER CORD	098TRABD4BTBPHR	REMOTE CONTROL RC2023611/01B
	089G404A18NLS1	POWER CORD PG8B1C3C300-060		
	089G410A18NLSB	POWER CORD 1.8M PY8B1V6CC0A-060		
42TA2800/98(LPL)	089G404A18N IS	POWER CORD	098TRABD4BTBPHR	REMOTE CONTROL RC2023611/01B
	089G404A18NLS1	POWER CORD PG8B1C3C300-060		
	089G410A18NLSB	POWER CORD 1.8M PY8B1V6CC0A-060		

10.2 Recommended Parts List

TYPE: 42TA2800/98(LPL)

Item	Philips 12NC DESCRIPTION	TPV 18NC
1060	REMOTE CONTROL RC2023611/01B	098TRABD4BTPHR
1070	POWER CORD	089G404A18N IS
1070	POWER CORD PG8B1C3C300-060	089G404A18NLS1
1071	POWER CORD 1.8M PY8B1V6CC0A-060	089G410A18NLSB
	SPEAKER 8 OHM 10W PE506BBg BLACK	078T W42907 M
	FRONT BEZEL ASSY	705TZ734002
	CARTON - TOP	Z44TN002813 1A
	CONTROL BOTTON	P33T0065 1
	BACK COVER ASSY	705TZ734003
	DFU assy	705TZ7E01014
	POWER BUTTON	P33T0086ACNA1CA
	P.E.BAG 275x320 mm	P45T 48003
	CUSHION-BTM-B-L	Z44TN001 1 1
	CUSHION-BTM-B-R	Z44TN001 1 2
	CUSHION-TOP-L	Z44TN001 2 1
	CUSHION-TOP-R	Z44TN001 2 2
	CUSHION-BTM-A-L	Z44TN001 3 1
	CUSHION-BTM-A-R	Z44TN001 3 2
U1101	IC 74LV4053PW TSSOP16	056T 665906
U1102	M24C02-WMN6TP	056T1133 34
U1102	IC AT24C02BN-10SU-1.8 SO8	056T1133907
U1103	74LVC14APM	056G4LCX 14 PH
U1201	FQ1216ME/IH-5(SV22)	094TPASEALL 3P
U4101	24LC64 ISNG SOIC(150MIL)	056T1133 78
U4101	AT24C64AN-10SU-2.7(Atmel/ WPI)	056T1133915
U4102	IC M30300SAGP RENESAS	056T1125182
U4103	AP1701FWL	056T 643600
U4201	IC CS4344-CZZ TSSOP-10	056T 638601
U4202	IC SVP-PX66 BGA336	056T 562900
U4501	K4D26328G-VC36 FBGA144	056G 615804
U4501	IC HY5DU283222BFP-33 FBGA-144	056T 615907
U4502	S29AL008D70TF1010	056T1133711
U5101	M24C02-WMN6TP	056T1133 34
U5101	IC AT24C02BN-10SU-1.8 SO8	056T1133907
U5104	IC PI3HDMI412FT-AZHE TQFN42	056T 634900
U6201	IC 74HC4052D PHILIPS	056T 614 1
U6202	IC MSP3410G-QI-B8V3 PMQFP64	056G 593901
U6301	IC TPA3100D2PHPR HTQFP-48 TI	056T 616 25 1
U6302	IC TDA1308T/N2 SO8	056G 613900
U7202	AP1117E25LA	056K 585 5A
U7203	IC AP1501-33K5LA TO263-5L	056T 563937
U7204	AP1501-50K5A	056G 563 20
U7205	IC AP1117E18LA ANACHIP	056T 56327A
U7206	AP1501-K5LA TO-263-5L	056G 56314A
U7209	IC AME1117CCGTZ SOT223	056G 563921
Q901	FET POW STW18NK80Z (ST00) L	057G 667 27
Q902	TRANSISTOR 26A 600V	057G 667901
Q908	2SK3530-01MRSC	057G 667 34
Q912	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
Q915	BC847C	057G 419513

10.Recommended/Spare Parts List

10.3 Spare Parts List

Model: 42TA2800/98(LPL) 12NC: 8670 000 27472

Item	Philips 12NC DESCRIPTION	TPV 18NC		
Mechanical Parts				
	SPEAKER 8 OHM 10W PE506BBg BLACK	078T W42907 M	C1108	CAP CHIP 0603 330P 50V NPO +/-5%
	FRONT BEZEL ASSY	705TZ734002	C1110	CER1 0603 NPO 50V 220P P M5 R
	CONTROL BOTTON	P33T0065 1	C1111	CAP CHIP 0603 33P 50V NPO +/-5%
	LENS	P33T0087ABVA1CA000	C1112	CAP CHIP 0603 220N 10V X7R +/-10%
	BEZEL	P34T0096 1	C1114	CAP CHIP 0603 100N 25V X7R +/-10%
	DECO FRONT LOWER	Z34T0029ACNA1T	C1115	CAP CHIP 4.7UF 10V X7R +/- 10%
	BACK COVER ASSY	705TZ734003	C1116	CAP CHIP 0603 10P 50V NPO +/-5%
	BACK COVER	Z34T0030ABUA4A	C1117	CAP CHIP 0603 10P 50V NPO +/-5%
	SMALL PLASTIC HANDLE	P11T0009 1	C1201	EC 1000UF 25V KH 13*20mm
	Metal Frame Ass'y-42TA2800	705TZ7E15004	C1202	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
	BRACKET-MF-TOP	P15T0175 1	C1203	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
	BRACKET-PWR-R	P15T0176 1	C1204	CAP CHIP 0603 100N 25V X7R +/-10%
	BRACKET-PWR-L	P15T0177 1	C1205	EC 10UF 25V RVS-25V100MD55-RL 4x5.3mm
	MAIN FRAME-L-LA	P15T0214 1	C1206	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
	MAIN FRAME-R-LA	P15T0215 1	C1207	EC 10UF 25V RVS-25V100MD55-RL 4x5.3mm
	BRACKET-BASE-L	P15T0216 1	C1208	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
	BRACKET-BASE-R	P15T0217 1	C1209	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
	BRACKET-FC-CONER-TR-LPL	P15T0183 1	C1210	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
	BRACKET-FC-CONER-TL-LPL	P15T0184 1	C1211	CAP CHIP 0603 100P 50V NPO +/-5%
	BRACKET-FC-TOP-LPL-R	P15T0185 1	C1212	105± 470UF M 16V
	BRACKET-FC-TOP-LPL-L	P15T0186 1	C1222	CAP CHIP 0603 820P 50V X7R +/-10%
	BRACKET-FC-MDL-LPL-R	P15T0187 1	C1228	CAP CHIP 0603 100P 50V NPO +/-5%
	BRACKET-FC-CONER-LPL-LD	P15T0189 1	C1229	CAP CHIP 0603 100P 50V NPO +/-5%
	BRACKET-FC-CONER-LPL-RD	P15T0190 1	C1230	CAP CHIP 0603 100P 50V NPO +/-5%
	BRACKET-FC-BTM-LPL	P15T0191 1	C1231	CAP CHIP 0603 100P 50V NPO +/-5%
	BRACKET-VESA-LR	P15T0221 1	C1232	CAP CHIP 0603 33P 50V NPO +/-5%
	BRACKET-VESA-M	P15T0222 1	C1233	CAP CHIP 0603 33P 50V NPO +/-5%
	POWER BUTTON	P33T0086ACNA1CA000	C1234	CAP CHIP 0603 33P 50V NPO +/-5%
	BASE	P37T0058 1ABS ACP	C1235	CAP CHIP 0603 100P 50V NPO +/-5%
	SHIELD-SCALER	P85T0061 1	C4101	CAP CHIP 0603 100N 25V X7R +/-10%
Packing Parts				
	CARTON - TOP	Z44TN002813 1A	C4102	CAP CHIP 4.7UF 10V X7R +/- 10%
	CARTON - BOTTOM	Z44TN003813 1A	C4103	CAP CHIP 0603 100N 25V X7R +/-10%
	P.E.BAG 275x320 mm	P45T 48003	C4104	CAP CHIP 0603 100N 25V X7R +/-10%
	CUSHION-BTM-B-L	Z44TN001 1 1	C4105	CAP CHIP 0603 100N 25V X7R +/-10%
	CUSHION-BTM-B-R	Z44TN001 1 2	C4106	CAP CHIP 0603 100N 25V X7R +/-10%
	CUSHION-TOP-L	Z44TN001 2 1	C4107	EC 100UF 25V KH 6.3*11mm
	CUSHION-TOP-R	Z44TN001 2 2	C4108	CAP CHIP 4.7UF 10V X7R +/- 10%
	CUSHION-BTM-A-L	Z44TN001 3 1	C4111	CAP CHIP 0603 33P 50V NPO +/-5%
	CUSHION-BTM-A-R	Z44TN001 3 2	C4112	CAP CHIP 0603 33P 50V NPO +/-5%
Accessory				
1060	REMOTE CONTROL RC2023611/01B	098TRABD4BTPHR	C4201	CHIP 2700PF 50V X7R
1070	POWER CORD	089G404A18N IS	C4202	CAP CHIP 0603 100N 25V X7R +/-10%
1070	POWER CORD PG8B1C3C300-060	089G404A18NLS1	C4203	CAP CHIP 0603 100N 25V X7R +/-10%
1071	POWER CORD 1.8M PY8B1V6CC0A-060	089G410A18NLSB	C4204	CAP CHIP 0603 100N 25V X7R +/-10%
	DFU assy	705TZ7E01014	C4205	CAP CHIP 0603 100N 25V X7R +/-10%
	USER'S MANUAL	Z41TN004813 1A	C4206	CAP CHIP 0603 100N 25V X7R +/-10%
miscellanea				
1	WIRE HARNESS 10P-10P 520mm 47749	095T8014 10A00 FP	C4207	CAP CHIP 0603 100N 25V X7R +/-10%
2	WIRE HARNESS 6P-6P 930mm 47761	095T8014 6A00 FP	C4208	CAP CHIP 0603 100N 25V X7R +/-10%
3	WIRE HARNESS 12P-12P 900mm 47759	095T8014 12A00 FP	C4209	CAP CHIP 0603 100N 25V X7R +/-10%
4	WIRE HARNESS 30P-30P 230mm 47757	095T8018 30A13 FP	C4210	CAP CHIP 0603 100N 25V X7R +/-10%
5	WIRE HARNESS 2P-2P 380mm 47762	095T8014 2A00 FP	C4211	CAP CHIP 0603 100N 25V X7R +/-10%
6	WIRE HARNESS 11P-11P 180mm 47758	095G8014 11A00 FP	C4212	CAP CHIP 0603 100N 25V X7R +/-10%
7	WIRE HARNESS 14P-5P-12P 510mm 47756	095G8014 14A02 FP	C4213	CAP CHIP 0603 100N 25V X7R +/-10%
8	HARNESS 50mm 46440	095T 900931 FP	C4214	CAP CHIP 0603 100N 25V X7R +/-10%
	ring	P33T0088ABWA1AA000	C4215	CAP CHIP 0603 100N 25V X7R +/-10%
	RING-SCREW	P34T0071 VU14F	C4216	CAP CHIP 0603 100N 25V X7R +/-10%
	RATING LABEL	Z40TNN0081319A	C4217	CAP CHIP 0603 100N 25V X7R +/-10%
LCD Panel				
1050	PANEL LC420WX5-SLD1 LPL	750TVGT0X5D11N	C4218	CAP CHIP 0603 100N 25V X7R +/-10%
PCB Assy				
1053	Scaler Board ass'y	CBPF6T2CZA2	C4219	CAP CHIP 0603 100N 25V X7R +/-10%
1054	Power Pcb Assy	ADPF24300R1P	C4220	CAP CHIP 0603 100N 25V X7R +/-10%
1055	SIDE_AV PCB ASSY	PTPF6PA4	C4221	CAP CHIP 0603 100N 25V X7R +/-10%
1056	IR board	IRPF7ZA1	C4222	CAP CHIP 0603 100N 25V X7R +/-10%
1057	Key board	KEPF7ZA1	C4223	CAP CHIP 0603 100N 25V X7R +/-10%
PCB Assy				
1053	Scaler Board ass'y	CBPF6T2CZA2	C4224	CHIP 2700PF 50V X7R
Various				
CN1101	D-SUB CONN 15PIN F (WITH SCREW UNLOCKED)	088T 35315FHST	C4225	CAP CHIP 0603 18P 50V NPO +/-5%
CN1102	PHONE JACK 3.5mm 5P GREEN 69020	088G 302902 FP	C4226	CAP CHIP 0603 18P 50V NPO +/-5%
CN1202	RCA JACK 2*1 W/R 5105-825-072-65	088T 78 13904 TN	C4227	CAP CHIP 0603 100N 25V X7R +/-10%
CN1203	RCA JACK 2*3 G/B/R+G/B/R	088T 78 13918 TN	C4228	EC 100UF 25V KH 6.3*11mm
CN1204	RCA JACK + S JACK Y/B 5105-825-165-65	088T 78 13916 TN	C4229	CAP CHIP 0603 100N 25V X7R +/-10%
CN1205	RCA JACK 2*2 W/B+R/Y 5105-855-202-65	088T 78 13903 TN	C4230	CER 1206 22U 10V Y5V -20%+80%
CN1206	RCA JACK 2*2 W/R+W/R 5105-855-092-65	088T 78 13900 TN	C4231	3.3UF 50V 105C V TYPE
CN5102	SOC HDMI H 19P SM FLANGE	088T 340 197NP	C4232	EC 3.3uF 50V VEL 4x5.7mm
CN6301	PUSH TERMINAL CONNECTOR 2*2 R/R+B/B	088T 301903 TN	C4233	EC 10UF 25V RVS-25V100MD55-RL 4x5.3mm
CN7201	CONNECTOR	033G3802 11 FP	C4301	CAP CHIP 0603 100N 25V X7R +/-10%
X4101	CRYSTAL 10MHZ 30P HC-49U/S	093G 2261B D	C4302	CAP CHIP 0603 100N 25V X7R +/-10%
X4201	CRYSTAL 28.322MHZ 14P HC-49U/S	093T 2279B D	C4303	CAP CHIP 0603 100N 25V X7R +/-10%
X6201	18.432MHZ	093G 2268B J	C4304	CAP CHIP 0603 100N 25V X7R +/-10%
	FLASH Software	100GZ101000041	C4305	CAP CHIP 4.7UF 10V X7R +/- 10%
	FLASH LABEL	Z40TNN00813 6A	C4306	CAP CHIP 0603 100N 25V X7R +/-10%
	EEPROM Data	100GZ201000041	C4307	CAP CHIP 4.7UF 10V X7R +/- 10%
	EEPROM Label	Z40TNN00813 7A	C4308	CAP CHIP 0805 1U 16V X7R +/-10%
C1107	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C4401	CAP CHIP 0603 100N 25V X7R +/-10%
C1102	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C4402	CHIP 10uF 10V Y5V 0805
C1103	CAP CHIP 4.7UF 10V X7R +/- 10%	065G0805475A2K	C4403	CAP CHIP 0603 100N 25V X7R +/-10%
C1105	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C4404	CAP CHIP 0603 100N 25V X7R +/-10%
C1107	CAP CHIP 0603 330P 50V NPO +/-5%	065G0603333131J	C4405	CAP CHIP 0603 100N 25V X7R +/-10%
			C4406	CAP CHIP 0603 100N 25V X7R +/-10%
			C4407	CAP CHIP 0603 100N 25V X7R +/-10%
			C4408	CER 1206 22U 10V Y5V -20%+80%
			C4409	CAP CHIP 0603 100N 25V X7R +/-10%
			C4410	CAP CHIP 0603 100N 25V X7R +/-10%
			C4411	CAP CHIP 0603 100N 25V X7R +/-10%
			C4412	CAP CHIP 0603 100N 25V X7R +/-10%
			C4413	CHIP 10uF 10V Y5V 0805
			C4414	CHIP 10uF 10V Y5V 0805
			C4415	CHIP 10uF 10V Y5V 0805
			C4416	CHIP 10uF 10V Y5V 0805
			C4417	CHIP 10uF 10V Y5V 0805
			C4418	CAP CHIP 0603 100N 25V X7R +/-10%
			C4419	CAP CHIP 0603 100N 25V X7R +/-10%
			C4420	CER 1206 22U 10V Y5V -20%+80%
			C4421	CAP CHIP 0603 100N 25V X7R +/-10%
			C4422	CAP CHIP 0603 100N 25V X7R +/-10%
			C4423	CAP CHIP 0603 100N 25V X7R +/-10%
			C4424	CHIP 10uF 10V Y5V 0805
			C4425	CAP CHIP 0603 100N 25V X7R +/-10%
			C4426	CAP CHIP 0603 100N 25V X7R +/-10%
			C4427	CHIP 10uF 10V Y5V 0805
			C4428	CAP CHIP 0603 100N 25V X7R +/-10%
			C4429	CAP CHIP 0603 100N 25V X7R +/-10%
			C4430	CAP CHIP 0603 100N 25V X7R +/-10%
			C4431	CHIP 10uF 10V Y5V 0805
			C4432	CAP CHIP 0603 100N 25V X7R +/-10%
			C4433	CAP CHIP 0603 100N 25V X7R +/-10%
			C4434	CAP CHIP 0603 100N 25V X7R +/-10%
				065G060310422K

C4435	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6311	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K
C4436	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6312	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4437	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6313	CAP CHIP 0603 100N 50V X7R +/-10%	065G060310332K
C4438	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6314	EC 47uF/35V VEJ 8x10mm	067G311F470 6T
C4439	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C6315	CAP CHIP 0603 22N 50V X7R +/-10%	065G060322332K
C4440	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6317	CHIP 1uF 16VX7R 0603	065G0603105 12
C4441	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6318	CHIP 10uF 10V Y5V 0805	065G0805106 A7
C4442	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6320	CHIP 10uF 10V Y5V 0805	065G0805106 A7
C4443	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6321	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z
C4444	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6322	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z
C4445	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6323	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4446	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6324	CAP CHIP 0603 22N 50V X7R +/-10%	065G060322332K
C4447	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6326	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C4448	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C6327	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4449	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6328	CAP CHIP 0603 10N 50V X7R +/-10%	065G060310332K
C4450	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6329	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z
C4451	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6330	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z
C4452	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6331	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4453	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6332	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4454	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6333	CHIP 1uF 16VX7R 0603	065G0603105 12
C4455	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6334	CAP CHIP 0603 22N 50V X7R +/-10%	065G060322332K
C4456	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6337	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4457	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6338	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K
C4458	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6339	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K
C4459	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6340	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4460	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6341	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4461	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6342	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4462	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6343	CHIP 0.47UF 25V X7R 0805	065G0805474 22
C4463	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6344	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4501	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6345	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4502	CAP CHIP 0603 10N 50V X7R +/-10%	065G060310332K	C6353	CER 1206 1U 50V Y5V -20%+80%	065G120610537Z
C4503	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C7106	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4504	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7107	CHIP 10uF 10V Y5V 0805	065G0805106 A7
C4505	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7110	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4506	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7111	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4507	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7113	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4508	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7114	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4509	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C7127	CHIP 10uF 10V Y5V 0805	065G0805106 A7
C4510	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7201	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4511	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7202	105± 470UF.M.35V	067G215S471 6K
C4512	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7204	CHIP 0.1UF 50V X7R	065T0603104 32
C4513	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7205	CAP CHIP 0603 100N 50V X7R +/-10%	065G060310332K
C4514	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7206	2.2UF 25V X7R 1206	065C1206225 22
C4515	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7207	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4516	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7208	105± 470UF M 16V	067G 305471 3C
C4517	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7209	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C4518	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C7210	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5101	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7211	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5105	CAP CHIP 0603 1N 50V X7R +/-10%	065G060310232K	C7212	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5109	RST CHIPR 150 KOHM +5% 1/10W	061G0603154	C7213	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5110	CAP CHIP 4.7UF 10V X7R +/- 10%	065G0805475A2K	C7214	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5111	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7215	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5112	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7216	CAP CHIP 0603 47N 16V X7R +/-10%	065G060347312K
C5113	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7217	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5114	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7218	EC 470uF 35V KM 10x16mm	067G 305471 6C
C5116	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7220	EC 470uF 25V LZ 10x12.5mm	067G215R471 4C
C5121	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7220	EC 470uF 25V LZ 10x13mm	067G215R471 4K
C5122	EC 100UF 25V KH 6.3*11mm	067G215L101 4C	C7221	CAP CHIP 0603 100N 50V Y5V -20%+80%	065G060310437Z
C5123	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7222	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5124	EC SMD 85± 100UF M 25V	067T 312101 4	C7227	CAP CHIP 0603 47N 16V X7R +/-10%	065G060347312K
C5125	CAP CHIP 4.7UF 10V X7R +/- 10%	065G0805475A2K	C7229	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5126	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7230	EC 470uF 35V KM 10x16mm	067G 305471 6C
C5127	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7231	EC 470uF 25V LZ 10x12.5mm	067G215R471 4C
C5128	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7232	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5129	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7233	EC 470uF 25V LZ 10x12.5mm	067G215R471 4C
C5133	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7234	CAP CHIP 0603 100N 50V Y5V -20%+80%	065G060310437Z
C6201	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7235	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6202	EC 100UF 25V KH 6.3*11mm	067G215L101 4C	C7236	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6203	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7237	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6204	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7238	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6205	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7239	CAP CHIP 0603 47N 16V X7R +/-10%	065G060347312K
C6206	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7241	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6207	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7243	EC 470uF 35V KM 10x16mm	067G 305471 6C
C6208	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7246	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6209	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7247	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6210	CAP CHIP 0603 15P 50V NPO +/-5%	065G060315031J	C7250	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6211	CAP CHIP 0603 47P 50V NPO +/-5%	065G060347031J	C7251	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6212	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7256	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6213	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z			
C6214	CAP CHIP 0603 33P 50V NPO +/-5%	065G060333031J	R1102	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
C6215	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1103	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
C6216	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1104	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
C6217	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1105	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
C6218	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1106	RST CHIPR 100 OHM +5% 1/10W	061G0603101
C6219	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1107	RST CHIPR 100 OHM +5% 1/10W	061G0603101
C6220	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1108	RST CHIPR 100 OHM +5% 1/10W	061G0603101
C6221	CAP CHIP 0603 33P 50V NPO +/-5%	065G060333031J	R1109	RST CHIPR 100 OHM +5% 1/10W	061G0603101
C6222	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1110	RST CHIPR 470 OHM +5% 1/10W	061G0603471
C6223	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1111	RST CHIPR 75 OHM +5% 1/10W	061G0603750
C6224	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1113	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
C6225	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1114	RST CHIPR 100 OHM +5% 1/10W	061G0603101
C6226	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1115	RST CHIPR 100 OHM +5% 1/10W	061G0603101
C6227	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1116	RST CHIPR 75 OHM +5% 1/10W	061G0603750
C6228	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1117	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222
C6229	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1118	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222
C6230	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1119	RST CHIPR 75 OHM +5% 1/10W	061G0603750
C6231	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	R1120	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332
C6232	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1121	RST CHIPR 47 KOHM +5% 1/10W	061G0603473
C6233	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1122	RST CHIPR 47 KOHM +5% 1/10W	061G0603473
C6234	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1123	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
C6235	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K	R1125	RST CHIPR 22 KOHM +5% 1/10W	061G0603223
C6236	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1126	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332
C6237	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1127	RST CHIPR 47 KOHM +5% 1/10W	061G0603473
C6301	EC 100uF 35V EB 13x25mm	067G215H102 6K	R1128	RST CHIPR 47 KOHM +5% 1/10W	061G0603473
C6302	CHIP 0.47UF 25V X7R 0805	065G0805474 22	R1131	RST CHIP 1K 1/10W 5%	061G0603102
C6303	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1132	RST CHIPR 0 OHM +5% 1/10W	061G0603000
C6304	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1133	RST CHIPR 0 OHM +5% 1/10W	061G0603000
C6305	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	R1201	RST CHIPR 0 OHM +5% 1/10W	061G0603000
C6306	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1202	RST CHIPR 75 OHM +5% 1/10W	061G0603750
C6307	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J	R1203	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332
C6308	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J	R1204	RST CHIPR 47 KOHM +5% 1/10W	061G0603473
C6309	EC 100UF 25V KH 6.3*11mm	067G215L101 4C	R1205	RST CHIPR 47 KOHM +5% 1/10W	061G0603473
C6310	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K	R1206	RST CHIPR 75 OHM +5% 1/10W	

10.Recommended/Spare Parts List

R1207	RST CHIPR 10 OHM +5% 1/10W	061G0603100	R6206	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1208	RST CHIPR 10 OHM +5% 1/10W	061G0603100	R6207	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1210	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6208	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1211	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222	R6209	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1212	RST CHIPR 10 OHM +5% 1/10W	061G0603100	R6210	RST CHIPR 470 OHM +5% 1/10W	061G0603471
R1213	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6211	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1214	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6212	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1215	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6213	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1216	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6214	RST CHIPR 470 KOHM +5% 1/10W	061G0603474
R1217	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6215	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R1218	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6216	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R1219	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6217	RST CHIPR 10 OHM +5% 1/10W	061G0603100
R1220	RST CHIPR 220 OHM +5% 1/10W	061G0603221	R6218	RST CHIPR 10 OHM +5% 1/10W	061G0603100
R1221	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6219	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R1222	RST CHIPR 120 OHM +5% 1/10W	061G0603121	R6220	RST CHIPR 27 KOHM +5% 1/10W	061G0603273
R1223	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6222	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1224	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6223	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1225	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6301	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R1226	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6302	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R1227	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6303	RST CHIPR 39 KOHM +5% 1/10W	061G0603393
R1228	RST CHIPR 56 OHM +5% 1/10W	061G0603560	R6304	RST CHIPR 22 KOHM +5% 1/10W	061G0603223
R1229	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6305	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332
R1230	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6306	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332
R1231	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6307	RST CHIPR 6.8 KOHM +5% 1/10W	061G0603682
R1232	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6308	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1233	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6309	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1234	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6310	RST CHIPR 39 KOHM +5% 1/10W	061G0603393
R1235	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6311	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R1236	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6312	RST CHIPR 6.8 KOHM +5% 1/10W	061G0603682
R1237	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6313	RST CHIPR 22 KOHM +5% 1/10W	061G0603223
R1238	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R6314	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4101	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R6315	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R4103	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R6316	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4110	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R6318	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4111	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R6322	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4112	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7101	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R4115	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7104	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4117	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7105	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4118	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7106	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4119	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7107	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4120	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7109	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4121	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7110	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4122	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7111	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4123	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7112	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4125	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7113	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4126	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7114	RST CHIPR 10 OHM +5% 1/10W	061G0603100
R4127	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7115	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4130	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7116	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4139	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7117	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4140	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7118	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4141	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7119	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4142	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7120	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4145	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7121	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4146	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7126	RST CHIPR 100 OHM +5% 1/10W	061G0603100
R4153	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7202	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4154	RST CHIPR 100 OHM +5% 1/10W	061G0603101	R7205	RST CHIPR 5.1 KOHM +5% 1/10W	061G0603512
R4155	RST CHIPR 100 OHM +5% 1/10W	061G0603101	R7206	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4156	RST CHIPR 100 OHM +5% 1/10W	061G0603101	R7207	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4202	RST CHIPR 33 OHM +5% 1/10W	061G0603330	R7208	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R4208	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7209	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4211	RST CHIPR 470 OHM +5% 1/10W	061G0603471	R7210	RST CHIPR 2.7 KOHM +5% 1/10W	061G0603272
R4214	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7211	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4215	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7212	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4217	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7213	RST CHIPR 15KOHM +5% 1/10W	061G0603153
R4218	RST CHIPR 470 OHM +5% 1/10W	061G0603471	R7215	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4301	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R7218	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4304	RST CHIPR 10 OHM +5% 1/10W	061G0603100	R7221	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4305	RST CHIPR 10 OHM +5% 1/10W	061G0603100	R7222	RST CHIPR 15KOHM +5% 1/10W	061G0603153
R4306	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	R7224	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4307	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7225	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4308	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472	R7227	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4309	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	R7230	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4310	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	R7231	RST CHIPR 15KOHM +5% 1/10W	061G0603153
R4313	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	R7232	RST CHIP 1K 1/10W 5%	061G0603102
R4314	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	R7234	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4401	RST CHIPR 22 OHM +5% 1/10W	061G0603220	R7235	RST CHIPR 4.7KOHM +5% 1/10W	061G0603472
R4402	RST CHIPR 22 OHM +5% 1/10W	061G0603220	R7236	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4501	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R7237	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222
R4502	RST CHIPR 51 OHM +5% 1/10W	061G0603510	R7258	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4503	RST CHIPR 51 OHM +5% 1/10W	061G0603510	R7259	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4504	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4301	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4505	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4302	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4506	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4303	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4507	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4304	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4508	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4501	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125100 8
R4509	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4502	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4510	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4503	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4511	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4504	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4512	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4505	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4513	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4506	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5101	RST CHIPR 1.8 KOHM +5% 1/10W	061G0603182	RP4507	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5102	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4508	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5103	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4509	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5104	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4510	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5107	RST CHIPR 100 OHM +5% 1/10W	061G0603101	RP4511	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5109	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	RP4512	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5111	RST CHIPR 1.5 KOHM +5% 1/10W	061G0603152	RP4513	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5114	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4514	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5118	RST CHIPR 560 OHM +1% 1/8W	061G0805560			
R5120	RST CHIPR 1.5 KOHM +1% 1/10W	061G0603150 1F	FB1101	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R5125	RST CHIPR 270 OHM +5% 1/10W	061G0603271	FB1102	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R5126	RST CHIP 3K3 1/10W 1%	061G0603330 1F	FB1103	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R5128	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	FB1104	CHIP BEAD 600R/200mA FCM1608K-601T02	071G 59K601 TA
R5129	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	FB1105	CHIP BEAD 600R/200mA FCM1608K-601T02	071G 59K601 TA
R5130	RST CHIPR 22 KOHM +5% 1/10W	061G0603223	FB1106	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R5131	RST CHIPR 100 OHM +5% 1/10W	061G0603101	FB1107	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R5136	RST CHIPR 0 OHM +5% 1/10W	061G0603000	FB1201	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA
R5137	RST CHIPR 0 OHM +5% 1/10W	061G0603000	FB1202	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6201	RST CHIPR 0 OHM +5% 1/10W	061G0603000	FB1203	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6202	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222	FB1204	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6203	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222	FB1205	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6204	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1206	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6205	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1207	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA

FB1208	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA	Q6201	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1209	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA	Q6202	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1210	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7103	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904
FB1211	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7103	FET 2N7002E VISHAY	057T 758 1
FB1212	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA	Q7104	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904
FB1213	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7104	FET 2N7002E VISHAY	057T 758 1
FB1214	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7105	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904
FB1215	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7105	FET 2N7002E VISHAY	057T 758 1
FB1216	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7106	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904
FB1217	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7106	FET 2N7002E VISHAY	057T 758 1
FB1218	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7201	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1219	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7202	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T
FB1220	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7203	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1221	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7204	FET SI4835BDY SO-8	057G 763901
FB1222	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7205	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1223	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7206	FET SI4835BDY SO-8	057G 763901
FB1224	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7207	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1225	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7208	FET SI4835BDY SO-8	057G 763901
FB1226	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7209	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1227	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7215	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1231	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	U1101	IC 74LV4053PWN TSSOP16	056T 665906
FB4201	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U1102	M24C02-WMN6TP	056T1133 34
FB4401	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U1102	IC AT24C02BN-10SU-1.8 SO8	056T1133907
FB4402	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U1103	74LVC14APM	056G4LXC 14 PH
FB4403	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U1201	FQ1216ME/IH-5(SV22)	094TPASEALL 3P
FB4404	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4101	24LC64 ISNG SOIC(150MIL)	056T1133 78
FB4405	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4101	AT24C64AN-10SU-2.7(Atmel/ WPI)	056T1133915
FB4406	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4102	IC M30300SAGP RENESAS	056T1125182
FB4407	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4103	AP1701FWL	056T 643600
FB4408	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4201	IC CS4344-CZZ TSSOP-10	056T 638601
FB6201	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4202	IC SVP-PX66 BGA336	056T 562900
FB6202	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4501	K4D26328G-V036 FBGA144	056G 615804
FB6301	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4501	IC HY5DU28322BFP-33 FBGA-144	056T 615907
FB6302	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4502	S29AL008D70TF1010	056T1133711
FB6303	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U5101	M24C02-WMN6TP	056T1133 34
FB6304	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U5101	IC AT24C02BN-10SU-1.8 SO8	056T1133907
FB6307	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U5104	IC PI3HDM1412FT-AZHE TQFN42	056T 634900
FB7201	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6201	IC 74HC4052D PHILIPS	056T 614 1
FB7202	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6202	IC MSP3410G-QI-B8V3 PMQFP64	056G 593901
FB7203	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6301	IC TPA3100D2PHPR HTQFP-48 TI	056T 616 25 1
FB7211	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6302	IC TDA1308T/N2 SO8	056G 613900
FB7212	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U7202	AP1117E25LA	056K 585 5A
FB7213	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U7203	IC AP1501-33K5LA TO263-5L	056T 563937
L4401	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7204	AP1501-50K5A	056G 563 20
L4402	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7205	IC AP1117E18LA ANACHIP	056T 56327A
L4403	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7206	AP1501-K5LA TO-263-5L	056G 56314A
L4404	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7206	IC AME1117CCGTZ SOT223	056G 563921
L4405	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7209	FLASH ASSY	705TZE56004
L4406	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K		EEPROM Assembly	705TZE56010
L6301	CHOKE COIL	073G 253900 HJ			
L6301	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	PCB Assy		
L6302	CHOKE COIL	073G 253900 HJ	1054	Power Pcb Assy	ADFP24300R1P
L6302	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS			
L6303	CHOKE COIL	073G 253900 HJ	Various		
L6303	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	CN904	AC SOCKET 20174	087G 501905 FP
L6304	CHOKE COIL	073G 253900 HJ	F901	FUSE 5A 250V 0215005M BY LITTELFUSE	084G 41 7
L6304	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	SG1	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7201	CHOKE COIL	073G 253900 HJ	SG2	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7201	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	SG3	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7202	CHOKE COIL	073G 253900 HJ	SG4	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7202	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	T904	XFMR HJC-S6191	080TL37T912 HJ
L7203	CHOKE COIL 56uH+/-10% 92mohm R10*10	073T 253913 L	T905	XFMR LK.PF003.B00	080TL42T913 DN
D1101	LL4148-GSO8	093G 6432V	C900	Y1 CAP 1500pF / 250V.	065G306M1522B3
D1101	BAS32L	093G 64S3PH	C901	Y1 CAP 470pF +-10% 250VAC CD SERIES	065G306K4712B3
D1101	DIODE LS4148	093G 64S901 T	C902	Y1 CAP 470pF +-10% 250VAC CD SERIES	065G306K4712B3
D1102	LL4148-GSO8	093G 6432V	C907	EC 220uF 450V HS 35x32mm	067G 4022115C
D1102	BAS32L	093G 64S3PH	C907	EC 220uF 450V PL 35x32mm	067G 4022115K
D1102	DIODE LS4148	093G 64S901 T	C907	CAPACITOR 220UF/450V	067G 40A22115C
D5101	LL4148-GSO8	093G 6432V	C908	CAP X2 0.68U 275V MKP	063G107K684 HM
D5101	BAS32L	093G 64S3PH	C909	CAP X2 0.68U 275V MKP	063G107K684 HM
D5101	DIODE LS4148	093G 64S901 T	C912	CHIP 1UF 25V X7R 0805	065G0805105 22
D5102	LL4148-GSO8	093G 6432V	C913	CAP CHIP 0805 1N 50V X7R +/-10%	065G080510232K
D5102	BAS32L	093G 64S3PH	C914	CHIP 0.047UF 50V X7R	065G0805473 32
D5102	DIODE LS4148	093G 64S901 T	C916	0.33UF+-10% 25V X7R 0805	065G0805334 22
D5103	LL4148-GSO8	093G 6432V	C917	CHIP 0.047UF 50V X7R	065G0805473 32
D5103	BAS32L	093G 64S3PH	C919	CHIP 1UF 25V X7R 0805	065G0805105 22
D5103	DIODE LS4148	093G 64S901 T	C920	CHIP 0805 0.1UF +-10% 25V X7R	065G0805104 22
D5104	LL4148-GSO8	093G 6432V	C921	100UF +-20% 25V	067G 305101 4T
D5104	BAS32L	093G 64S3PH	C922	CHIP 0805 0.1UF +-10% 25V X7R	065G0805104 22
D5104	DIODE LS4148	093G 64S901 T	C924	0.33UF+-10% 25V X7R 0805	065G0805334 22
D6201	LL4148-GSO8	093G 6432V	C926	CAP. 1500PF 1KV	065G 1K1529AT
D6201	BAS32L	093G 64S3PH	C934	CAP EC 47UF/25 M 5*11 105C DI	067G 305470 4T
D6201	DIODE LS4148	093G 64S901 T	C935	CAP MPP 2.2uF 450V 5%	063G214J225GMC
D7201	DIODE BZX84-C9V1 SOD-323 VISHAY	093G 39S903 T	C936	CAP MPP 2.2uF 450V 5%	063G214J225GMH
D7201	DIO REG SM PDZ9.1B (PHSE) R	093G 39S909	C937	CHIP 0805 0.1UF +-10% 25V X7R	065G0805104 22
D7202	LL4148-GSO8	093G 6432V	C938	CAP MPP 1uF 450V 5%	063G210J105GMC
D7202	BAS32L	093G 64S3PH	C938	CAP MPP 1uF 450V 5%	063G210J105GMH
D7202	DIODE LS4148	093G 64S901 T	C939	CAP PP PPN 100V S 10N PM2 A	064G 47G1031AT HJ
D7203	DIODE SSA34 VISHAY	093G 60S801	C939	F/C PPN 0.01uF 100V 5% EUROPTRONIC	064G 47J1031AT EU
D7204	DIODE SSA34 VISHAY	093G 60S801	C940	CAP PP PPN 100V S 10N PM2 A	064G 47G1031AT EU
D7205	DIODE SSA34 VISHAY	093G 60S801	C940	F/C PPN 0.01uF 100V 5% EUROPTRONIC	064G 47J1031AT EU
ZD5101	DIODE SMD ESD PROTECTOR PESD0603-140 TY093G 64 55 TY	093G 64 55 TY	C943	CHIP 0805 0.1UF +-10% 25V X7R	065G0805104 22
ZD5102	DIODE SMD ESD PROTECTOR PESD0603-140 TY093G 64 55 TY	093G 64 55 TY	C944	CAP. 2200PF 500V 10% RC	065T517K2224AT
ZD5103	DIODE SMD ESD PROTECTOR PESD0603-140 TY093G 64 55 TY	093G 64 55 TY	C945	CER2 DC B 500V S 1N5 PM10 A	065G517K1522AT
ZD7104	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C946	EC 2.2uF 50V NK 5x11 105a	067G 702297CT
ZD7104	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C947	EC CAP 6.8UF M 50V	067G 3056897CT
ZD7105	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C948	CAP. 2200PF 500V 10% RC	065T517K2224AT
ZD7105	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C951	EC 1500uF 35V GF 13x35mm	067G 515152 6C
ZD7106	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C952	EC 1500uF 35V GF 13x35mm	067G 515152 6C
ZD7106	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C953	EC 1500uF 35V GF 13x35mm	067G 515152 6C
ZD7107	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C954	85a RADIAL E-CAPACITOR 47uF 35V	067G 309470 6T
ZD7107	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C955	EC 2200UF 16V GF 13*25mm	067G 515222 3C
ZD7201	DIODE SSA34 VISHAY	093G 60S801	C956	F/C PPN 0.022uF 100V 5% EUROPTRONIC	064G 47J223 1H EU
Q4301	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T	C956	F/C PPN 22N 100V 5% HJC	064G 47J223 1H HJ
Q4301	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904	C957	85a 10UF +-20% 25V	067G 309100 4T
Q4301	FET 2N7002E VISHAY	057T 758 1	C958	CAP EC 47UF/25 M 5*11 105C DI	067G 305470 4T
Q4302	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904	C959	CER1 0805 NPO 50V 470P PM5 R	065G080547131J
Q4302	FET 2N7002E VISHAY	057T 758 1	C960	CER1 0805 NPO 50V 470P PM5 R	065G080547131J
Q5101	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH	C961	0.33UF+-10% 25V X7R 0805	065G0805334 22
Q5102	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T	C962	CER1 0805 NPO 50V 470P PM5 R	065G080547131J
Q5103	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T	R913	RST CHIPR 33 KOHM +-5% 1/8W	061G0805333

10.Recommended/Spare Parts List

R914	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472	D914	DIO SIG SM BAV103 (VISH) R	093G 64901 T
R915	RST CHIPR 33 KOHM +-5% 1/8W	061G0805333	D914	DIODE BAV103 SOD-80C PHILIPS	093G 525900 T
R916	RST CHIPR 33 KOHM +-5% 1/8W	061G0805333	D915	DIO SIG SM BAV103 (VISH) R	093G 64901 T
R918	CHIPR 47K OHM +-5% 1/8W	061L0805473	D915	DIODE BAV103 SOD-80C PHILIPS	093G 525900 T
R922	RST CHIPR 12 KOHM +-5% 1/8W	061G0805123	D918	Diode BAV21	093K 6450752T
R923	RST CHIPR 330 OHM +-5% 1/8W	061G0805331	D919	DIO SIG SM BAV103 (VISH) R	093G 64901 T
R924	RST MOF 0R23 1% 1W	061G208M12852T	D919	DIODE BAV103 SOD-80C PHILIPS	093G 525900 T
R925	CHIPR 1K OHM +-5% 1/10W	061L0805102	D920	Diode BAV21	093K 6450752T
R926	RST MOF 0R23 1% 1W	061G208M12852T	D922	DIO REC STPS40H100CW (ST00) L	093G 60909
R927	RST MOF 180K 5% 1W	061G208M184 56	D924	DIODE UF1007 1A 1000V DO-41	093G110090052T
R928	RST CHIPR 8.2KOHM +-1% 1/8W	061G0805820 1F	D924	DIO REC STTH110 (ST00) A	093G110090252T
R929	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473	D925	DIODE UF1007 1A 1000V DO-41	093G110090052T
R930	CHIPR 1K OHM +-5% 1/10W	061L0805102	D925	DIO REC STTH110 (ST00) A	093G110090252T
R932	330 OHM 5% 1/6W	061G 60233152T	D926	DIODE	093G202050052T
R933	CHIPR 1K OHM +-5% 1/10W	061L0805102	D926	DIO REC SBYV27-200-E3 (VISH) A	093G202090052T
R934	RST CHIPR 330 OHM +-5% 1/8W	061G0805331	D927	DIODE SP1060 10A/60V _ITO-220	093C 60278
R935	RST CHIPR 47 OHM +-5% 1/8W	061G0805470	D927	SCHOTTKY MBRF1060CT ITO-220AB	093G 60526
R936	CHIPR 100K OHM+-5% 1/10W	061L0805104	D929	DIO SIG SM BAV103 (VISH) R	093G 64901 T
R937	RST CHIPR 2.2KOHM +-1% 1/8W	061G0805220 1F	D929	DIODE BAV103 SOD-80C PHILIPS	093G 525900 T
R938	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472	ZD902	DIODE P6KE120A DO-15	093G 3990052T
R939	RST CHIPR 18 KOHM +-1% 1/8W	061G0805180 2F	ZD902	DIODE P6KE120A DO-15	093G 3991952T
R940	RST CHIPR 1.5 KOHM +-1% 1/8W	061G0805150 1F	ZD904	DIODE P6KE120A DO-15	093G 3990052T
R941	RST CHIPR 2.2KOHM +-1% 1/8W	061G0805220 1F	ZD904	DIODE P6KE120A DO-15	093G 3991952T
R942	RST CHIPR 33 OHM +-5% 1/8W	061G0805330	ZD906	DIODE P4KE250A DO-41 LITEON	093G 3992052T
R943	RST CHIPR 2.2KOHM +-1% 1/8W	061G0805220 1F	ZD908	DIO REG BZX79-B18 A (PHSE) A	093G 3990452T
R944	RST CHIPR 8.2KOHM +-1% 1/8W	061G0805820 1F	ZD908	DIO REG BZX55-B18 A (VISH) A	093G 3990852T
R945	RST CHIPR 330 OHM +-1% 1/8W	061G0805330 0F			
R946	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472	IC902	IC SG6961	056T 379901
R947	CHIPR 47K OHM +-5% 1/8W	061L0805473	IC904	TEA1507P	056C 625500 S
R948	CHIPR 1.5K OHM +-5% 1/10	061L0805152	IC907	TEA1507P	056C 625500 S
R949	RST MOF 0R1 1% 1W	061G208M10852T	IC909	PC123 Y82FZ0F	056G 139 3B
R950	RST CHIPR 560 KOHM +-5% 1/8W	061G0805564	IC909	TCET1103G	056G 139 5A
R951	CHIPR 1K OHM +-5% 1/10W	061L0805102	IC910	PC123 Y82FZ0F	056G 139 3B
R952	RST CHIPR 100 OHM +-5% 1/8W	061G0805101	IC910	TCET1103G	056G 139 5A
R953	RST CHIPR 330 KOHM +-5% 1/8W	061G0805334	IC911	PC123 Y82FZ0F	056G 139 3B
R956	RST CHIP 150K 1/8W 1%	061G0805150 3F	IC911	TCET1103G	056G 139 5A
R957	RST CHIP 100K 1/8W 5%	061G0805104	IC912	IC TL431ACZ S (ST00) A	056G 158901
R958	RST CHIPR 330 KOHM +-5% 1/8W	061G0805334	IC913	IC TL431ACZ S (ST00) A	056G 158901
R959	RST CHIPR 220 KOHM +-5% 1/4W	061G1206224	Q901	FET POW STW18NK80Z (ST00) L	057G 667 27
R960	RST CHIPR 220 KOHM +-5% 1/4W	061G1206224	Q902	TRANSISTOR 26A 600V	057G 667901
R961	RST CHIPR 180 KOHM +-5% 1/4W	061G1206184	Q902	MOSFET _42A/600V _2SK3681-01_ TO-247	057T 667903
R962	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473	Q908	2SK3530-01MRSC	057G 667 34
R963	2.2OHM +-5% 1/6W	061G 60222952T	Q908	STP7NK80ZFP	057G 667900
R964	2.2OHM +-5% 1/6W	061G 60222952T	Q912	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
R965	RST CHIPR 2.2 OHM +-5% 1/4W	061G1206229	Q912	BC857 SOT23	057G 761900 T
R969	RST CHIP 470K 1/4W 1%	061G1206470 3F	Q913	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
R970	RST CHIP 470K 1/4W 1%	061G1206470 3F	Q913	BC857 SOT23	057G 761900 T
R971	RST CHIP 470K 1/4W 1%	061G1206470 3F	Q914	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
R972	RST CHIPR 8.2KOHM +-1% 1/8W	061G0805820 1F	Q914	BC857 SOT23	057G 761900 T
R973	RST CHIP 620R 1/8W 1%	061G0805620 0F	Q915	BC847C	057G 419513
R974	RST MOF 0R3 1% 1/4W	061G 20630852T	Q915	TRA SIG SM BC847C (KEC0) R	057G 477900 T
R975	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472	Q916	BC847C	057G 419513
R976	RST CHIPR 47 OHM +-5% 1/8W	061G0805470	Q916	TRA SIG SM BC847C (KEC0) R	057G 477900 T
R977	RST CHIP 10R 1/4W 5%	061G1206100			
R978	RST CHIPR 330 KOHM +-5% 1/8W	061G0805334	PCB Assy		
R979	CHIPR 1K OHM +-5% 1/10W	061L0805102	1055	SIDE_AV PCB ASSY	PTPF6PA4
R980	RST CHIPR 3.3 KOHM +-5% 1/8W	061G0805332			
R981	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473	Various		
RV902	VARISTOR 510V TVR14511KFC4FY	061G 46902	CNO31	RCA JACK 1*3 Y/W/R 69054	088T 78 13907 FP
TH902	NTC 0R75 15% SCK100R75MSY001 BY THINKING	061G 58905 WT	CNO32	MINI DIN JACK 4P BLACK 1471-P41-4S8-54	088T 100900 TN
			CNO33	PHONE JACK 3.5mm 7P BLACK 5102-84V-021-5	088T 302901 TN
FB903	FERRITE CORE 3.5*4.7*1 BF40TA-3.5x4.7x1B	071G 55907			
FB904	FERRITE CORE 3.5*4.7*1 BF40TA-3.5x4.7x1B	071G 55907	C031	CAP CHIP 0603 6N8 50V X7R +/-10%	065G060368232K
FB905	FERRITE CORE 3.5*4.7*1 BF40TA-3.5x4.7x1B	071G 55907	C031	CHIP 0.0068UF 50V X7R 0603	065T0603682 32
FB914	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	C032	CAP CHIP 0603 6N8 50V X7R +/-10%	065G060368232K
FB914	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	C032	CAP CHIP 0603 6N8 50V X7R +/-10%	065G060368232K
FB915	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	C036	820PF 50V +-5% NPO	065T0603821 31
FB915	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902			
FB917	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	R031	RST CHIPR 0 OHM +-5% 1/10W	061G0603000
FB917	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R031	RST SM 0603 JUMP MAX 0R0 5 R	061L0603000
FB918	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	R032	RST CHIPR 0 OHM +-5% 1/10W	061G0603000
FB918	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R032	RST SM 0603 JUMP MAX 0R0 5 R	061L0603000
FB919	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	R033	RST CHIPR 75 OHM +-5% 1/10W	061G0603750
FB919	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R033	75OHM 1% 1/10W	061L0603750 9F
FB920	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	R034	RST CHIPR 75 OHM +-5% 1/10W	061G0603750
FB920	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R034	75OHM 1% 1/10W	061L0603750 9F
FB921	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	R035	RST CHIPR 0 OHM +-5% 1/10W	061G0603000
FB921	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R035	RST SM 0603 JUMP MAX 0R0 5 R	061L0603000
FB922	FERRITE BEAD ZBF094T-12T5S-A	071G 55900	R036	RST CHIPR 75 OHM +-5% 1/10W	061G0603750
FB922	FERRITE BEAD	071G 55906	R036	RST CHIPR 75 OHM +-5% 1/10W	061G0603750
FB923	FERRITE BEAD ZBF094T-12T5S-A	071G 55900	R037	RST CHIPR 3.3 KOHM +-5% 1/10W	061G0603332
FB923	FERRITE BEAD	071G 55906	R037	CHIP 3.3K OHM 1/10W	061L0603332
FB924	FERRITE BEAD ZBF094T-12T5S-A	071G 55900	R038	RST CHIPR 3.3 KOHM +-5% 1/10W	061G0603332
FB924	FERRITE BEAD	071G 55906	R038	CHIP 3.3K OHM 1/10W	061L0603332
FB925	FERRITE BEAD ZBF094T-12T5S-A	071G 55900	R039	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
FB925	FERRITE BEAD	071G 55906	R039	RST SM 0603 RC0603 47K P	061L0603473
L910	CHOKE COIL 2.4uH+/-20% 4.5mohm R5*20	073T 253911 HJ	R040	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
L911	CHOKE COIL 2.3uH+/-20% 7.2mohm R4*15	073T 253910 HJ	R040	RST SM 0603 RC0603 47K P	061L0603473
L912	LINE FILTER 8mH 4.0A HJC-S6027	073T 174915 HJ	R041	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
L913	LINE FILTER 8mH 4.0A HJC-S6027	073T 174915 HJ	R041	RST SM 0603 RC0603 47K P	061L0603473
L914	FIL PFC 300UH 0R085 S5032 Y	073G 174905 HJ	R042	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
L915	PEAKING COIL 47uH+-10%	073T 5447010T	R042	RST SM 0603 RC0603 47K P	061L0603473
L916	PEAKING COIL 47uH+-10%	073T 5447010T			
BD901	GBU8J	093G 50460 24	FB031	CHIP BEAD	071G 56K121 M
BD901	GBU 805	093T 50460 14	FB031	CHIP BEAD 120R/6000mA HCB2012KF-121T60	071G 56K121 TA
D901	DIODE STTH8L06FP	093G 220900	FB032	CHIP BEAD	071G 56K121 M
D906	LL4148-GS08	093G 6432V	FB032	CHIP BEAD 120R/6000mA HCB2012KF-121T60	071G 56K121 TA
D906	BAS32L	093G 64S3PH	PCB Assy		
D907	DIO REC BYT42D A (VISH) A	093G 60905	1056	IR board	IRPF7ZA1
D907	RGPI10-DO-204AL	093G 64 5152T			
D907	DIO REC RGP10D A (GULF) A	093G 6490352T	Various		
D908	DIO REC BYT42D A (VISH) A	093G 60905	SW001	SWI TACT H=5 GY 160G SKHHAM B	077G 605 1 FD
D908	RGPI10-DO-204AL	093G 64 5152T	SW002	SWI TACT H=5 GY 160G SKHHAM B	077G 605 1 FD
D908	DIO REC RGP10D A (GULF) A	093G 6490352T			
D910	LL4148-GS08	093G 6432V	C001	CAP CHIP 0603 100N 16V X7R +/-10%	065G060310412K
D910	BAS32L	093G 64S3PH	C001	CHIP 0.1UF 16V X7R	065T0603104 12 GP
D911	DIO REC BYT42D A (VISH) A	093G 60905	C002	CAP CHIP 0603 100N 16V X7R +/-10%	065G060310412K
D911	RGPI10-DO-204AL	093G 64 5152T	C002	CHIP 0.1UF 16V X7R	065T0603104 12 GP
D911	DIO REC RGP10D A (GULF) A	093G 6490352T	C003	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
D912	DIO REC BYT42D A (VISH) A	093G 60905			
D912	RGPI10-DO-204AL	093G 64 5152T	R001	RST CHIPR 220 OHM +-5% 1/10W	061G0603221
D912	DIO REC RGP10D A (GULF) A	093G 6490352T	R001	CHIPR 220 OHM+-5% 1/16W	061L0603221

10.Recommended/Spare Parts List

TPT1.1A LA

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Model: 37TA2800/98(LPL) 12NC: 8670 000 27468

Item	Philips 12NC DESCRIPTION	TPV 18NC		
Mechanical Parts				
1	FRONT BEZEL ASSY	705TP734021	C1203	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
2	FRONT BEZEL	P34T0068 WVA1F	C1204	CAP CHIP 0603 100N 25V X7R +/-10%
3	FRONT DECO	P34T0145ACNC1T	C1205	EC 10UF 25V RVS-25V100MD55-RL 4x5.3mm
5	Lens_Power	P33T0087ABVA1C	C1206	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
6	BUTTON_FUNCTION	P33T0065 WVA1AB000	C1207	EC 10UF 25V RVS-25V100MD55-RL 4x5.3mm
7	REAR COVER ASSY	705TP734022	C1208	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
8	REAR COVER	P34T0070ABUA4F	C1209	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
10	BASE	P37T0047 1ABS ACP	C1210	CAP CHIP 0603 5P6 50V NPO +/-0.5PF
11	BUTTON POWER	P33T0086ACNA1T	C1211	CAP CHIP 0603 100P 50V NPO +/-5%
12	MAIN SHIELD ASSY	705TP785001	C1212	105C 470UF M 16V
16	MAIN FRAME ASSY+WIRE ASSY	705TP715009	C1222	CAP CHIP 0603 820P 50V X7R +/-10%
17	MAIN FRAME	P15T0111 2	C1228	CAP CHIP 0603 100P 50V NPO +/-5%
22	BRACKET-SPKBX-BOTTOM	P15T0136 1ACP	C1229	CAP CHIP 0603 100P 50V NPO +/-5%
23	BKT-RA	P15T0062 1	C1230	CAP CHIP 0603 100P 50V NPO +/-5%
24	BKT-RB ASSY	705TPCLK0M15001	C1231	CAP CHIP 0603 100P 50V NPO +/-5%
27	BKT-LA	P15T0073 1	C1232	CAP CHIP 0603 33P 50V NPO +/-5%
28	BKT-LB	P15T0074 1	C1233	CAP CHIP 0603 33P 50V NPO +/-5%
29	BKT-LC	P15T0075 1	C1234	CAP CHIP 0603 33P 50V NPO +/-5%
30	BKT-TOP	P15T0064 1	C1235	CAP CHIP 0603 100P 50V NPO +/-5%
31	BKT-BOTTOM	P15T0065 1	C4101	CAP CHIP 0603 100N 25V X7R +/-10%
50	WALL MOUNT KIT	P15T0114 1	C4102	CAP CHIP 4.7UF 10V X7R +/- 10%
68	SMALL PLASTIC HANDLE	P11T0009 1	C4103	CAP CHIP 0603 100N 25V X7R +/-10%
340	SHIELD-MAIN	P85T0062 1	C4104	CAP CHIP 0603 100N 25V X7R +/-10%
355	BKT-RB	P15T0063 1	C4105	CAP CHIP 0603 100N 25V X7R +/-10%
Packing Parts				
60	Carton (TOP)	Z44TL002813 1A	C4106	CAP CHIP 0603 100N 25V X7R +/-10%
61	Carton (BOTTON)	Z44TL003813 1A	C4107	EC 100UF 25V KH 6.3*11mm
62	Cushion-TOP-TL	Z44TL001 1 2	C4108	CAP CHIP 4.7UF 10V X7R +/- 10%
63	Cushion-TOP-TR	Z44TL001 1 1	C4111	CAP CHIP 0603 33P 50V NPO +/-5%
64	Cushion-BTM-BA-L	Z44TL001 2 1	C4112	CAP CHIP 0603 33P 50V NPO +/-5%
65	Cushion-BTM-BA-R	Z44TL001 2 2	C4201	CHIP 2700PF 50V X7R
66	Cushion-BTM-BB-L	Z44TL001 3 1	C4202	CAP CHIP 0603 100N 25V X7R +/-10%
67	Cushion-BTM-BB-R	Z44TL001 3 2	C4203	CAP CHIP 0603 100N 25V X7R +/-10%
Accessory				
52	DFU assy	705TZ7E01015	C4204	CAP CHIP 0603 100N 25V X7R +/-10%
53	USER'S MANUAL	Z41TN004813 1A	C4205	CAP CHIP 0603 100N 25V X7R +/-10%
1060	REMOTE CONTROL RC2023611/01B	098TRABD4BTPHR	C4206	CAP CHIP 0603 100N 25V X7R +/-10%
1070	POWER CORD	089G404A18N IS	C4207	CAP CHIP 0603 100N 25V X7R +/-10%
1070	POWER CORD PG8B1C3C300-060	089G404A18NLS1	C4208	CAP CHIP 0603 100N 25V X7R +/-10%
1071	POWER CORD 1.8M PY8B1V6CC0A-060	089G410A18NLSB	C4209	CAP CHIP 0603 100N 25V X7R +/-10%
miscellanea				
2	WIRE HARNESS 30P-30P 150mm 47746	095T8018 30A14 FP	C4210	CAP CHIP 0603 100N 25V X7R +/-10%
3	WIRE HARNESS 2P-2P 350mm 47747	095T8014 2A01 FP	C4211	CAP CHIP 0603 100N 25V X7R +/-10%
4	WIRE HARNESS 11P-11P 80mm 47745	095G8014 11A01 FP	C4212	CAP CHIP 0603 100N 25V X7R +/-10%
4	Lens_Ring	P33T0088ABWA1A	C4213	CAP CHIP 0603 100N 25V X7R +/-10%
5	HARNESS 50mm 46440	095T 900931 FP	C4214	CAP CHIP 0603 100N 25V X7R +/-10%
20	WIRE HARNESS 6P-6P 800mm 47765	095T8014 6A02 FP	C4215	CAP CHIP 0603 100N 25V X7R +/-10%
21	WIRE HARNESS 12P-14P-5P-10P 770mm 47748	095G8014 14A03 FP	C4216	CAP CHIP 0603 100N 25V X7R +/-10%
32	RING-SCREW	P34T0071 VUA1F	C4217	CAP CHIP 0603 100N 25V X7R +/-10%
46	RATING LABEL	Z40TLN0081314A	C4218	CAP CHIP 0603 100N 25V X7R +/-10%
	WIRE HARNESS 10P-10P 520mm 47749	095T8014 10A00 FP	C4219	CAP CHIP 0603 100N 25V X7R +/-10%
LCD Panel				
1050	PANEL LC370WX1-SLB1 LPL	750TVGQQWX121N	C4220	CAP CHIP 0603 100N 25V X7R +/-10%
PCB Assy				
1053	Scalar board Assembly	CBPF6T2CZA1	C4221	CAP CHIP 0603 100N 25V X7R +/-10%
1054	Power Pcb Assy	ADPF24220R1P	C4222	CAP CHIP 0603 100N 25V X7R +/-10%
1055	Side_AV_board_vision_D	PTPF6PA1	C4223	CAP CHIP 0603 100N 25V X7R +/-10%
1056	IR board	IRPF7ZA1	C4224	CHIP 2700PF 50V X7R
1057	Key board	KEPF7ZA1	C4225	CAP CHIP 0603 18P 50V NPO +/-5%
PCB Assy				
1053	Scalar board Assembly	CBPF6T2CZA1	C4226	CAP CHIP 0603 18P 50V NPO +/-5%
Various				
CN1101	D-SUB CONN 15PIN F (WITH SCREW UNLOCKED)	088T 35315FHST	C4227	CAP CHIP 0603 100N 25V X7R +/-10%
CN1102	PHONE JACK 3.5mm 5P GREEN 69020	088G 302902 FP	C4228	EC 100UF 25V KH 6.3*11mm
CN1202	RCA JACK 2*1 W/R 5105-825-072-65	088T 78 13904 TN	C4229	CAP CHIP 0603 100N 25V X7R +/-10%
CN1203	RCA JACK 2*3 G/B/R-G/B/R	088T 78 13918 TN	C4230	CER 1206 22U 10V Y5V -20%+80%
CN1204	RCA JACK 2 S JACK Y/B 5105-825-165-65	088T 78 13916 TN	C4231	EC 3.3UF 50V 105C V TYPE
CN1205	RCA JACK 2*2 W/B+R/Y 5105-855-202-65	088T 78 13903 TN	C4232	EC 3.3UF 50V VEL 4x5.7mm
CN1206	RCA JACK 2*2 W/R+W/R 5105-855-092-65	088T 78 13900 TN	C4233	EC 10UF 25V RVS-25V100MD55-RL 4x5.3mm
CN5102	SOC HDMI H 19P SM FLANGE	088T 340 19TNP	C4301	CAP CHIP 0603 100N 25V X7R +/-10%
CN6301	PUSH TERMINAL CONNECTOR 2*2 R/R+B/B	088T 301903 TN	C4302	CAP CHIP 0603 100N 25V X7R +/-10%
X4101	CRYSTAL 10MHZ 30P HC-49U/S	093G 2281B D	C4303	CAP CHIP 4.7UF 10V X7R +/- 10%
X4201	CRYSTAL 28.322MHZ 14P HC-49U/S	093T 2279B D	C4306	CAP CHIP 0603 100N 25V X7R +/-10%
X6201	18.432MHZ	093G 2268B J	C4307	CAP CHIP 4.7UF 10V X7R +/- 10%
	FLASH Software	100GZ101000011	C4308	CAP CHIP 0805 1U 16V X7R +/-10%
	FLASH LABEL	Z40TL000813 8A	C4401	CAP CHIP 0603 100N 25V X7R +/-10%
	EEPROM Data	100GZ201000011	C4402	CHIP 10uF 10V Y5V 0805
	EEPROM Label	Z40TL000813 9A	C4403	CAP CHIP 0603 100N 25V X7R +/-10%
C1101	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C4404	CAP CHIP 0603 100N 25V X7R +/-10%
C1102	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C4405	CAP CHIP 0603 100N 25V X7R +/-10%
C1103	CAP CHIP 4.7UF 10V X7R +/- 10%	065G0805475A2K	C4406	CAP CHIP 0603 100N 25V X7R +/-10%
C1105	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C4407	CAP CHIP 0603 100N 25V X7R +/-10%
C1107	AP CHIP 0603 330P 50V NPO +/-5%	065G060333131J	C4408	CER 1206 22U 10V Y5V -20%+80%
C1108	AP CHIP 0603 330P 50V NPO +/-5%	065G060333131J	C4409	CAP CHIP 0603 100N 25V X7R +/-10%
C1110	CER1 0603 NPO 50V 220P P M5 R	065G060322131J	C4410	CAP CHIP 0603 100N 25V X7R +/-10%
C1111	CAP CHIP 0603 33P 50V NPO +/-5%	065G060333031J	C4411	CAP CHIP 0603 100N 25V X7R +/-10%
C1112	CAP CHIP 0603 220N 10V X7R +/-10%	065G060322A2K	C4412	CAP CHIP 0603 100N 25V X7R +/-10%
C1114	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C4413	CHIP 10uF 10V Y5V 0805
C1115	CAP CHIP 4.7UF 10V X7R +/- 10%	065G0805475A2K	C4414	CHIP 10uF 10V Y5V 0805
C1116	CAP CHIP 0603 10P 50V NPO +/-5%	065G060310031J	C4415	CHIP 10uF 10V Y5V 0805
C1117	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310031J	C4416	CHIP 10uF 10V Y5V 0805
C1201	EC 1000UF 25V KH 13*20mm	067G215L102 4C	C4417	CHIP 10uF 10V Y5V 0805
C1202	CAP CHIP 0603 5P6 50V NPO +/-0.5PF	065G060356931D	C4418	CAP CHIP 0603 100N 25V X7R +/-10%
			C4419	CAP CHIP 0603 100N 25V X7R +/-10%
			C4420	CER 1206 22U 10V Y5V -20%+80%
			C4421	CAP CHIP 0603 100N 25V X7R +/-10%
			C4422	CAP CHIP 0603 100N 25V X7R +/-10%
			C4423	CAP CHIP 0603 100N 25V X7R +/-10%
			C4424	CHIP 10uF 10V Y5V 0805
			C4425	CAP CHIP 0603 100N 25V X7R +/-10%
			C4426	CAP CHIP 0603 100N 25V X7R +/-10%
			C4427	CHIP 10uF 10V Y5V 0805
			C4428	CAP CHIP 0603 100N 25V X7R +/-10%
			C4429	CAP CHIP 0603 100N 25V X7R +/-10%
			C4430	CAP CHIP 0603 100N 25V X7R +/-10%
			C4431	CHIP 10uF 10V Y5V 0805
			C4432	CAP CHIP 0603 100N 25V X7R +/-10%
			C4433	CAP CHIP 0603 100N 25V X7R +/-10%
			C4434	CAP CHIP 0603 100N 25V X7R +/-10%
			C4435	CAP CHIP 0603 100N 25V X7R +/-10%
			C4436	CHIP 10uF 10V Y5V 0805
			C4437	CAP CHIP 0603 100N 25V X7R +/-10%
			C4438	CAP CHIP 0603 100N 25V X7R +/-10%
			C4439	CER 1206 22U 10V Y5V -20%+80%
			C4440	CAP CHIP 0603 100N 25V X7R +/-10%
			C4441	CAP CHIP 0603 100N 25V X7R +/-10%
			C4442	CAP CHIP 0603 100N 25V X7R +/-10%
			C4443	CAP CHIP 0603 100N 25V X7R +/-10%
			C4444	CAP CHIP 0603 100N 25V X7R +/-10%

10.Recommended/Spare Parts List

C4445	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6323	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4446	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6324	CAP CHIP 0603 22N 50V X7R +/-10%	065G060322332K
C4447	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6326	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C4448	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C6327	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4449	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6328	CAP CHIP 0603 10N 50V X7R +/-10%	065G060310332K
C4450	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6329	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z
C4451	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6330	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z
C4452	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6331	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4453	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6332	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4454	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6333	CHIP 1UF 16VX7R 0603	065G0603105 12
C4455	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6334	CAP CHIP 0603 22N 50V X7R +/-10%	065G060322332K
C4456	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6337	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4457	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6338	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K
C4458	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6339	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K
C4459	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6340	CAP CHIP 0805 1U 25V X7R +/-10%	065G080510522K
C4460	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6341	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4461	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6342	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4462	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6343	CHIP 0.47UF 25V X7R 0805	065G0805474 22
C4463	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C6344	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4501	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C6345	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4502	CAP CHIP 0603 10N 50V X7R +/-10%	065G060310332K	C6353	CER 1206 1U 50V Y5V -20%+80%	065G120610537Z
C4503	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C7106	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4504	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7107	CHIP 10uF 10V Y5V 0805	065G0805106 A7
C4505	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7110	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4506	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7111	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4507	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7113	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4508	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7114	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J
C4509	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C7127	CHIP 10uF 10V Y5V 0805	065G060310422K
C4510	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7201	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4511	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7202	105C 470UF.M.35V	067G215S471 6K
C4512	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7204	CHIP 0.1UF 50V X7R	065T0603104 32
C4513	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7205	CAP CHIP 0603 10N 50V X7R +/-10%	065G060310332K
C4514	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7206	2.2UF 25V X7R 1206	065C1206225 22
C4515	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7207	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C4516	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7208	105C 470UF M 16V	067G 305471 3C
C4517	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7209	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C4518	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	C7210	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5101	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7211	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5105	CAP CHIP 0603 1N 50V X7R +/-10%	065G060310232K	C7212	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5109	RST CHIPR 150 KOHM +/-5% 1/10W	061G0603154	C7213	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5110	CAP CHIP 4.7UF 10V X7R +/- 10%	065G0805475A2K	C7214	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5111	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7215	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5112	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7216	CAP CHIP 0603 47N 16V X7R +/-10%	065G060347312K
C5113	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7217	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5114	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7218	EC 470uF 35V KM 10x16mm	067G 305471 6C
C5116	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7220	EC 470uF 25V LZ 10x12.5mm	067G215R471 4C
C5121	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7220	EC 470uF 25V EB 10x13mm	067G215R471 4K
C5122	EC 100UF 25V KH 6.3*11mm	067G215L101 4C	C7221	CAP CHIP 0603 100N 50V Y5V -20%+80%	065G060310437Z
C5123	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7222	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5124	EC SMD 85# 100UF M 25V	067T 312101 4	C7227	CAP CHIP 0603 47N 16V X7R +/-10%	065G060347312K
C5125	CAP CHIP 4.7UF 10V X7R +/- 10%	065G0805475A2K	C7229	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C5126	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7230	EC 470uF 35V KM 10x16mm	067G 305471 6C
C5127	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7231	EC 470uF 25V LZ 10x12.5mm	067G215R471 4C
C5128	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7232	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C5129	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7233	EC 470uF 25V LZ 10x12.5mm	067G215R471 4C
C5133	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7234	CAP CHIP 0603 100N 50V Y5V -20%+80%	065G060310437Z
C6201	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7235	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6202	EC 100UF 25V KH 6.3*11mm	067G215L101 4C	C7236	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6203	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7237	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6204	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7238	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6205	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7239	CAP CHIP 0603 47N 16V X7R +/-10%	065G060347312K
C6206	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7241	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6207	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	C7243	EC 470uF 35V KM 10x16mm	067G 305471 6C
C6208	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7246	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6209	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7247	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6210	CAP CHIP 0603 15P 50V NPO +/-5%	065G060315031J	C7250	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6211	CAP CHIP 0603 47P 50V NPO +/-5%	065G060347031J	C7251	EC 100UF 25V KH 6.3*11mm	067G215L101 4C
C6212	CHIP 10uF 10V Y5V 0805	065G0805106 A7	C7256	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
C6213	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z			
C6214	CAP CHIP 0603 33P 50V NPO +/-5%	065G060333031J	R1102	RST CHIPR 10 KOHM +/-5% 1/10W	061G0603103
C6215	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1103	RST CHIPR 10 KOHM +/-5% 1/10W	061G0603103
C6216	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1104	RST CHIPR 10 KOHM +/-5% 1/10W	061G0603103
C6217	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1105	RST CHIPR 10 KOHM +/-5% 1/10W	061G0603103
C6218	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1106	RST CHIPR 100 OHM +/-5% 1/10W	061G0603101
C6219	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1107	RST CHIPR 100 OHM +/-5% 1/10W	061G0603101
C6220	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1108	RST CHIPR 100 OHM +/-5% 1/10W	061G0603101
C6221	CAP CHIP 0603 33P 50V NPO +/-5%	065G060333031J	R1109	RST CHIPR 100 OHM +/-5% 1/10W	061G0603101
C6222	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1110	RST CHIPR 470 OHM +/-5% 1/10W	061G0603471
C6223	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1111	RST CHIPR 75 OHM +/-5% 1/10W	061G0603750
C6224	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1113	RST CHIPR 10 KOHM +/-5% 1/10W	061G0603103
C6225	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1114	RST CHIPR 100 OHM +/-5% 1/10W	061G0603101
C6226	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1115	RST CHIPR 100 OHM +/-5% 1/10W	061G0603101
C6227	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1116	RST CHIPR 75 OHM +/-5% 1/10W	061G0603750
C6228	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1117	RST CHIPR 2.2 KOHM +/-5% 1/10W	061G0603222
C6229	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1118	RST CHIPR 2.2 KOHM +/-5% 1/10W	061G0603222
C6230	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1119	RST CHIPR 75 OHM +/-5% 1/10W	061G0603750
C6231	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	R1120	RST CHIPR 3.3 KOHM +/-5% 1/10W	061G0603332
C6232	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1121	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6233	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1122	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6234	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1123	RST CHIPR 10 KOHM +/-5% 1/10W	061G0603103
C6235	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K	R1125	RST CHIPR 22 KOHM +/-5% 1/10W	061G0603223
C6236	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1126	RST CHIPR 3.3 KOHM +/-5% 1/10W	061G0603332
C6237	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1127	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6301	EC 1000uF 35V EB 13x25mm	067G215H102 6K	R1128	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6302	CHIP 0.47UF 25V X7R 0805	065G0805474 22	R1131	RST CHIP 1K 1/10W 5%	061G0603102
C6303	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1132	RST CHIPR 0 OHM +/-5% 1/10W	061G0603000
C6304	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1133	RST CHIPR 0 OHM +/-5% 1/10W	061G0603000
C6305	CER 1206 22U 10V Y5V -20%+80%	065G1206226A7Z	R1201	RST CHIPR 0 OHM +/-5% 1/10W	061G0603000
C6306	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K	R1202	RST CHIPR 75 OHM +/-5% 1/10W	061G0603750
C6307	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J	R1203	RST CHIPR 3.3 KOHM +/-5% 1/10W	061G0603332
C6308	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J	R1204	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6309	EC 100UF 25V KH 6.3*11mm	067G215L101 4C	R1205	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6310	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K	R1206	RST CHIPR 75 OHM +/-5% 1/10W	061G0603750
C6311	CAP CHIP 0603 220N 25V X7R +/-10%	065G060322422K	R1207	RST CHIPR 10 OHM +/-5% 1/10W	061G0603100
C6312	CAP CHIP 0603 100P 50V NPO +/-5%	065G060310131J	R1208	RST CHIPR 10 OHM +/-5% 1/10W	061G0603100
C6313	CAP CHIP 0603 10N 50V X7R +/-10%	065G060310332K	R1210	RST CHIPR 75 OHM +/-5% 1/10W	061G0603750
C6314	EC 47uF/35V VJEJ 8x10mm	067G311F470 6T	R1211	RST CHIPR 2.2 KOHM +/-5% 1/10W	061G0603222
C6315	CAP CHIP 0603 22N 50V X7R +/-10%	065G060322332K	R1212	RST CHIPR 10 OHM +/-5% 1/10W	061G0603100
C6317	CHIP 1UF 16VX7R 0603	065G0603105 12	R1213	RST CHIPR 3.3 KOHM +/-5% 1/10W	061G0603332
C6318	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1214	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6320	CHIP 10uF 10V Y5V 0805	065G0805106 A7	R1215	RST CHIPR 47 KOHM +/-5% 1/10W	061G0603473
C6321	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1216	RST CHIPR 75 OHM +/-5% 1/10W	061G0603750
C6322	CAP CHIP 0603 1U 10V Y5V -20%+80%	065G0603105A7Z	R1217	RST CHIPR	

R1218	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6216	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R1219	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6217	RST CHIPR 10 OHM +5% 1/10W	061G0603100
R1220	RST CHIPR 220 OHM +5% 1/10W	061G0603221	R6218	RST CHIPR 10 OHM +5% 1/10W	061G0603100
R1221	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6219	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R1222	RST CHIPR 120 OHM +5% 1/10W	061G0603121	R6220	RST CHIPR 27 KOHM +5% 1/10W	061G0603273
R1223	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6222	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1224	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6223	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1225	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6301	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R1226	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6302	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R1227	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6303	RST CHIPR 39 KOHM +5% 1/10W	061G0603393
R1228	RST CHIPR 56 OHM +5% 1/10W	061G0603560	R6304	RST CHIPR 22 KOHM +5% 1/10W	061G0603223
R1229	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6305	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332
R1230	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6306	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332
R1231	RST CHIPR 75 OHM +5% 1/10W	061G0603750	R6307	RST CHIPR 6.8 KOHM +5% 1/10W	061G0603682
R1232	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6308	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1233	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6309	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R1234	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6310	RST CHIPR 39 KOHM +5% 1/10W	061G0603393
R1235	RST CHIPR 3.3 KOHM +5% 1/10W	061G0603332	R6311	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R1236	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6312	RST CHIPR 6.8 KOHM +5% 1/10W	061G0603682
R1237	RST CHIPR 47 KOHM +5% 1/10W	061G0603473	R6313	RST CHIPR 22 KOHM +5% 1/10W	061G0603223
R1238	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R6314	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4101	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R6315	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R4103	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R6316	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4110	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R6318	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4111	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R6322	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4112	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7101	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R4115	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7104	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4117	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7105	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4118	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7106	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4119	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7107	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4120	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7109	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4121	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7110	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4122	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7111	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4123	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7112	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4125	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7113	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4126	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7114	RST CHIPR 10 OHM +5% 1/10W	061G0603100
R4127	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7115	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4130	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7116	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4139	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7117	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4140	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7118	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4141	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7119	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4142	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7120	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4145	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7121	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4146	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7126	RST CHIPR 10 OHM +5% 1/10W	061G0603100
R4153	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7202	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4154	RST CHIPR 100 OHM +5% 1/10W	061G0603101	R7205	RST CHIPR 5.1 KOHM +5% 1/10W	061G0603512
R4155	RST CHIPR 100 OHM +5% 1/10W	061G0603101	R7206	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4156	RST CHIPR 100 OHM +5% 1/10W	061G0603101	R7207	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4202	RST CHIPR 33 OHM +5% 1/10W	061G0603330	R7208	RST CHIPR 0 OHM +5% 1/10W	061G0603000
R4208	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7209	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4211	RST CHIPR 470 OHM +5% 1/10W	061G0603471	R7210	RST CHIPR 2.7 KOHM +5% 1/10W	061G0603272
R4214	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7211	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4215	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7212	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4217	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7213	RST CHIPR 15 KOHM +5% 1/10W	061G0603153
R4218	RST CHIPR 470 OHM +5% 1/10W	061G0603471	R7215	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4301	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R7218	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4304	RST CHIPR 10 OHM +5% 1/10W	061G0603100	R7221	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4305	RST CHIPR 10 OHM +5% 1/10W	061G0603100	R7222	RST CHIPR 15 KOHM +5% 1/10W	061G0603153
R4306	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	R7224	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4307	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7225	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4308	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472	R7227	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4309	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	R7230	RST CHIPR 100 KOHM +5% 1/10W	061G0603104
R4310	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	R7231	RST CHIPR 15 KOHM +5% 1/10W	061G0603153
R4313	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	R7232	RST CHIP 1K 1/10W 5%	061G0603102
R4314	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	R7234	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4401	RST CHIPR 22 OHM +5% 1/10W	061G0603220	R7235	RST CHIPR 4.7 KOHM +5% 1/10W	061G0603472
R4402	RST CHIPR 22 OHM +5% 1/10W	061G0603220	R7236	RST CHIPR 100 OHM +5% 1/10W	061G0603101
R4501	RST CHIPR 0 OHM +5% 1/10W	061G0603000	R7237	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222
R4502	RST CHIPR 51 OHM +5% 1/10W	061G0603510	R7258	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4503	RST CHIPR 51 OHM +5% 1/10W	061G0603510	R7259	RST CHIPR 10 KOHM +5% 1/10W	061G0603103
R4504	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4301	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4505	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4302	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4506	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4303	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4507	RST CHIPR 15 OHM +5% 1/10W	061G0603150	RP4304	RST CHIP AR 8P4R 100 OHM +5% 1/16W	061G 125101 8
R4508	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4501	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R4509	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4502	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4510	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4503	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4511	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4504	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4512	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4505	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R4513	RST CHIPR 0 OHM +5% 1/10W	061G0603000	RP4506	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5101	RST CHIPR 1.8 KOHM +5% 1/10W	061G0603182	RP4507	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5102	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4508	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5103	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4509	RST CHIP ARRAY 15R 1/16W 5% 8P4R	061G 125150 8
R5104	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4510	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5107	RST CHIPR 100 OHM +5% 1/10W	061G0603101	RP4511	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5109	RST CHIPR 1 KOHM +1% 1/10W	061G0603100 1F	RP4512	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5111	RST CHIPR 1.5 KOHM +5% 1/10W	061G0603152	RP4513	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5114	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	RP4514	RST CHIP AR 8P4R 0 OHM +5% 1/16W	061G 125000 8
R5118	RST CHIPR 560 OHM +1% 1/8W	061G0805560			
R5120	RST CHIPR 1.5 KOHM +1% 1/10W	061G0603150 1F	FB1101	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R5125	RST CHIPR 270 OHM +5% 1/10W	061G0603271	FB1102	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R5126	RST CHIP 3K3 1/10W 1%	061G0603330 1F	FB1103	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R5128	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	FB1104	CHIP BEAD 600R/200mA FCM1608KF-601T02	071G 59C601 TA
R5129	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	FB1105	CHIP BEAD 600R/200mA FCM1608KF-601T02	071G 59C601 TA
R5130	RST CHIPR 22 KOHM +5% 1/10W	061G0603223	FB1106	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R5131	RST CHIPR 100 OHM +5% 1/10W	061G0603101	FB1107	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R5136	RST CHIPR 0 OHM +5% 1/10W	061G0603000	FB1201	CHIP BEAD 100R/300mA HCB3216K-101T30	071G 57K101 TA
R5137	RST CHIPR 0 OHM +5% 1/10W	061G0603000	FB1202	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6201	RST CHIPR 0 OHM +5% 1/10W	061G0603000	FB1203	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6202	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222	FB1204	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6203	RST CHIPR 2.2 KOHM +5% 1/10W	061G0603222	FB1205	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6204	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1206	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6205	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1207	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6206	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1208	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6207	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1209	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6208	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1210	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6209	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1211	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T
R6210	RST CHIPR 470 OHM +5% 1/10W	061G0603471	FB1212	CHIP BEAD 10R/500mA FCB1608CF-100T05	071G 59C100 TA
R6211	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1213	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6212	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1214	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T
R6213	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1215	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6214	RST CHIPR 470 KOHM +5% 1/10W	061G0603474	FB1216	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA
R6215	RST CHIPR 10 KOHM +5% 1/10W	061G0603103	FB1217	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T

10.Recommended/Spare Parts List

FB1218	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7201	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1219	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7202	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T
FB1220	CHIP BEAD 120R/500mA FCMZ1608S121CT	071G 59Q121 T	Q7203	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1221	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7204	FET SI4835BDY SO-8	057G 763901
FB1222	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7205	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1223	CHIP BEAD 120R/500mA MMZ1608S121CT	071G 59Q121 T	Q7206	FET SI4835BDY SO-8	057G 763901
FB1224	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7207	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1225	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7208	FET SI4835BDY SO-8	057G 763901
FB1226	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7209	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1227	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	Q7215	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH
FB1231	CHIP BEAD 600R/300mA FCM1608KF-601T03	071G 59K601 TA	U1101	IC 74LV4053PW TSSOP16	056T 665906
FB4201	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U1102	M24C02-WMNGT6P	056T1133 34
FB4401	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U1102	IC AT24C02BN-10SU-1.8 SO8	056T1133907
FB4402	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U1103	74LVC14APM	056G4CLX 14 PH
FB4403	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U1201	Q1216ME/H-5(SV22)	094TPASEALL 3P
FB4404	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4101	24LC64 ISNG SOIC(150MIL)	056T1133 78
FB4405	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4101	AT24C64AN-10SU-2.7(Atmel/ WPI)	056T1133915
FB4406	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4102	IC M30300SAGP RENESAS	056T1125182
FB4407	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4103	AP1701FWL	056T 643600
FB4408	CHIP BEAD 120R/600mA FCM1608KF-121T06	071G 59D121 TA	U4201	IC CS4344-CZZ TSSOP-10	056T 638601
FB6201	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4202	IC SVP-PX66 BGA336	056T 562900
FB6202	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4501	K4D26328G-VC36 FBGA144	056G 615804
FB6301	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4501	IC HY5DU283222BFP-33 FBGA-144	056T 615907
FB6302	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U4502	S29AL008D70TF1010	056T1133711
FB6303	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U5101	M24C02-WMNGT6P	056T1133 34
FB6304	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U5101	IC AT24C02BN-10SU-1.8 SO8	056T1133907
FB6307	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U5104	IC P3HDM1412FT-AZHE TOFN42	056T 634900
FB7201	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6201	IC 74HC4052D PHILIPS	056T 614 1
FB7202	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6202	IC MSP3410G-QI-B8V3 PMQFP64	056G 593901
FB7203	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6301	IC TPA3100D2PHRP HTQFP-48 TI	056T 616 25 1
FB7211	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U6302	IC TDA1308T/N2 SO8	056G 613900
FB7212	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U7202	AP1117E2SLA	056G 585 5A
FB7213	CHIP BEAD 100R/3000mA HCB3216K-101T30	071G 57K101 TA	U7203	IC AP1501-33K5LA TO263-5L	056T 563937
L4401	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7204	AP1501-50K5A	056G 563 20
L4402	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7205	IC AP1117E18LA ANACHIP	056T 56327A
L4403	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7206	AP1501-K5LA TO-263-5L	056G 56314A
L4404	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7206	IC AME1117CCGT2 SOT223	056G 563921
L4405	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K	U7209	FLASH ASSY	705TZE56001
L4406	CHIP INDUCTOR 2.2uH 10% 1206	073T 12622910K		EEPROM Assembly	705TZE56007
L6301	CHOKE COIL	073G 253900 HJ			
L6301	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	PCB Assy		
L6302	CHOKE COIL	073G 253900 HJ	1054	Power Pcb Assy	ADPF24220R1P
L6302	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS			
L6303	CHOKE COIL	073G 253900 HJ	Various		
L6303	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 HJ	CN903	CON V 12P M 2.50 64842 B	033G3803 12 FP
L6304	CHOKE COIL	073G 253900 HJ	CN905	CON V 12P M 2.50 64842 B	033G3803 12 FP
L6304	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	F901	FUSE 5A 250V 0215005M BY LITTELFUSE	084G 41 7
L7201	CHOKE COIL	073G 253900 HJ	SG1	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7201	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	SG2	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7202	CHOKE COIL	073G 253900 HJ	SG3	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7202	CHOKE COIL 35uH+/-10% 82mohm DR10*8	073G 253900 LS	SG4	SURGE PROTECT GS41-201MA A	062G 10 18 KW
L7203	CHOKE COIL 56uH+/-10% 92mohm R10*10	073T 253913 L	T904	XFMR HJC-S6191	080TL377912 HJ
			T905	XFMR HJC-S6192	080TL377911 HJ
D1101	LL4148-GSO8	093G 6432V			
D1101	BAS32L	093G 64S3PH	C900	Y1 CAP 1500pF / 250V.	065G306M1522B3
D1101	DIODE LS4148	093G 64S901 T	C901	Y1 CAP 470pF +10% 250VAC CD SERIES	065G306K4712B3
D1102	LL4148-GSO8	093G 6432V	C902	Y1 CAP 470pF +10% 250VAC CD SERIES	065G306K4712B3
D1102	BAS32L	093G 64S3PH	C907	EC 180uF 450V HS 30*31mm	067G 4018115C
D1102	DIODE LS4148	093G 64S901 T	C907	EC 180uF 450V PL 30*31mm	067G 4018115K
D5101	LL4148-GSO8	093G 6432V	C908	CAP X2 0.68u 275V MKP	063G107K684 HM
D5101	BAS32L	093G 64S3PH	C909	CAP X2 0.68u 275V MKP	063G107K684 HM
D5101	DIODE LS4148	093G 64S901 T	C912	CHIP 1uF 25V X7R 0805	065G0805105 22
D5102	LL4148-GSO8	093G 6432V	C913	CAP CHIP 0805 1N 50V X7R +/-10%	065G080510232K
D5102	BAS32L	093G 64S3PH	C914	CHIP 0.047uF 50V X7R	065G0805473 32
D5102	DIODE LS4148	093G 64S901 T	C916	0.33uF+-10% 25V X7R 0805	065G0805334 22
D5103	LL4148-GSO8	093G 6432V	C917	CAP CHIP 0805 47N 50V X7R +/-10%	065G080547332K
D5103	BAS32L	093G 64S3PH	C919	CHIP 1uF 25V X7R 0805	065G0805105 22
D5103	DIODE LS4148	093G 64S901 T	C920	CHIP 0805 0.1uF +10% 25V X7R	065G0805104 22
D5104	LL4148-GSO8	093G 6432V	C921	100uF +-20% 25V	067G 305101 4T
D5104	BAS32L	093G 64S3PH	C922	CHIP 0805 0.1uF +10% 25V X7R	065G0805104 22
D5104	DIODE LS4148	093G 64S901 T	C924	0.33uF+-10% 25V X7R 0805	065G0805334 22
D6201	LL4148-GSO8	093G 6432V	C926	CAP. 1500PF 1KV	065G 1K1529AT
D6201	BAS32L	093G 64S3PH	C934	CAP EC 47uF/25 M 5*11 105C DI	067G 305470 4T
D6201	DIODE LS4148	093G 64S901 T	C935	CAP MPP 2.2uF 450V 5%	063G214J225GMC
D7201	DIO REG SM PDZ384-C9V1 SOD-323 VISHAY	093G 39S903 T	C935	CAP MPP 2.2uF 450V 5%	063G214J225GMH
D7201	DIO REG SM PDZ3.1B (PHSE) R	093G 39S909	C937	CHIP 0805 0.1uF +10% 25V X7R	065G0805104 22
D7202	LL4148-GSO8	093G 6432V	C939	F/C PPN 0.018uF 100V 5% EUROPTRONIC	064G 47J183 1H EU
D7202	BAS32L	093G 64S3PH	C939	F/C PPN 0.018uF 100V 5% HJC	064G 47J183 1H HJ
D7202	DIODE LS4148	093G 64S901 T	C940	CAP PP PPN 100V S 10N PM2 A	064G 47G1031AT HJ
D7203	DIODE SSA34 VISHAY	093G 60S801	C940	F/C PPN 0.01uF 100V 2% EUROPTRONIC	064G 47G1031AT EU
D7204	DIODE SSA34 VISHAY	093G 60S801	C940	F/C PPN 0.01uF 100V 5% EUROPTRONIC	064G 47J1031AT EU
D7205	DIODE SSA34 VISHAY	093G 60S801	C942	CHIP 0805 0.1uF +10% 25V X7R	065G0805104 22
ZD5101	DIODE SMD ESD PROTECTOR PESD0603-140 TY	093G 64 55 TY	C943	CHIP 0805 0.1uF +10% 25V X7R	065G0805104 22
ZD5102	DIODE SMD ESD PROTECTOR PESD0603-140 TY	093G 64 55 TY	C945	CAP. 1500PF 500V 10% RC	065T517K1524AT
ZD5103	DIODE SMD ESD PROTECTOR PESD0603-140 TY	093G 64 55 TY	C946	CAP. 1500PF 500V 10% RC	065T517K1524AT
ZD7104	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C947	EC 10uF/50V KM 5*11mm	067G 3051007CT
ZD7104	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C948	CAP. 2200PF 500V 10% RC	065T517K2224AT
ZD7105	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C952	EC 1000uF 35V GF 13x25mm	067G 515102 6C
ZD7105	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C953	EC 1000uF 35V GF 13x25mm	067G 515102 6C
ZD7106	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C954	EC CAP 47uF M 35V	067G 3054706CT
ZD7106	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C955	EC 2200uF 16V GF 13*25mm	067G 515222 3C
ZD7107	DIODE BZX84-C5V6 SOT-23 VISHAY	093G 39S901 T	C956	EC 1000uF 35V GF 13x25mm	067G 515102 6C
ZD7107	DIODE BZX84-C5V6 SOT-23 PHILIPS	093G 39S911 T	C957	85 10uF +-20% 25V	067G 309100 4T
ZD7201	DIODE SSA34 VISHAY	093G 60S801	C958	CAP EC 47uF/25 M 5*11 105C DI	067G 305470 4T
Q1101	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T	C959	CER1 0805 NP0 50V 470P PM5 R	065G080547131J
Q4301	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904	C961	CER1 0805 NP0 50V 470P PM5 R	065G080547131J
Q4301	FET 2N7002E VISHAY	057T 758 1	C962	0.33uF+-10% 25V X7R 0805	065G0805334 22
Q4302	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904		CER1 0805 NP0 50V 470P PM5 R	065G080547131J
Q4302	FET 2N7002E VISHAY	057T 758 1		EC 2.2uF 50V NK 5x11 105 1.000	067G 702297CT
Q5101	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH	R913	RST CHIPR 33 KOHM +-5% 1/8W	061G0805333
Q5102	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T	R914	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472
Q5103	TRA SIG SM MMBT3904 (PHSE) R	057G 417903 T	R915	RST CHIPR 33 KOHM +-5% 1/8W	061G0805333
Q6201	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH	R916	RST CHIPR 33 KOHM +-5% 1/8W	061G0805333
Q6202	TRA SIG SM MUN2211J(ONSE)R	057G 7601PH	R918	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473
Q7103	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904	R922	RST CHIPR 12 KOHM +-5% 1/8W	061G0805123
Q7103	FET 2N7002E VISHAY	057T 758 1	R923	RST CHIPR 330 OHM +-5% 1/8W	061G0805331
Q7104	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904	R924	RST MOF 0R15 1% 1W	061G208M15852T
Q7104	FET 2N7002E VISHAY	057T 758 1	R925	CHIPR 1K OHM +-5% 1/10W	061L0805102
Q7105	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904	R926	RST MOF 0R15 1% 1W	061G208M15852T
Q7105	FET 2N7002E VISHAY	057T 758 1	R927	RST CHIP 1R5 1/8W 5%	061G0805159
Q7106	TRA FET 2N7002 SOT-23 PHILIPS	057G 763904	R928	RST CHIPR 8.2KOHM +-1% 1/8W	061G0805820 1F
Q7106	FET 2N7002E VISHAY	057T 758 1	R929	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473

R930	CHIPR 1K OHM +-5% 1/10W	061L0805102	ZD902	DIODE P6KE120A DO-15	093G 3991952T
R932	330 OHM 5% 1/6W	061G 60233152T	ZD904	DIODE P6KE120A DO-15	093G 3990052T
R933	CHIPR 1K OHM +-5% 1/10W	061L0805102	ZD904	DIODE P6KE120A DO-15	093G 3991952T
R934	RST CHIPR 330 OHM +-5% 1/8W	061G0805331	ZD906	DIODE P4KE250A DO-41 LITEON	093G 3992052T
R935	RST CHIPR 47 OHM +-5% 1/8W	061G0805470	ZD908	DIO REG BZX79-B18 A (PHSE) A	093G 3990452T
R936	CHIPR 100K OHM+-5% 1/10W	061L0805104	ZD908	DIO REG BZX55-B18 A (VISH) A	093G 3990852T
R937	RST CHIPR 2.2KOHM +-1% 1/8W	061G0805220 1F		IC SG6961	056T 379901
R938	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472	IC902	IC TEA1507P/N1 (PHSE) L	056T 625500 S
R939	RST CHIPR 18 KOHM +-1% 1/8W	061G0805180 2F	IC904	IC TEA1507P/N1 (PHSE) L	056T 625500 S
R940	RST CHIPR 1.5 KOHM +-1% 1/8W	061G0805100 1F	IC907	PC123 Y82FZ0F	056G 139 3B
R941	RST CHIPR 2.2KOHM +-1% 1/8W	061G0805220 1F	IC909	TCET1 103G	056G 139 5A
R942	RST CHIPR 100 OHM +-5% 1/8W	061G0805101	IC909	PC123 Y82FZ0F	056G 139 3B
R943	RST CHIPR 2.2KOHM +-1% 1/8W	061G0805220 1F	IC910	TCET1 103G	056G 139 5A
R944	RST CHIPR 8.2KOHM +-1% 1/8W	061G0805820 1F	IC910	PC123 Y82FZ0F	056G 139 3B
R945	RST CHIPR 330 OHM +-1% 1/8W	061G0805330 0F	IC911	TCET1 103G	056G 139 5A
R946	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472	IC911	IC TL431ACZ S (ST00) A	056G 158901
R947	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473	IC912	IC TL431ACZ S (ST00) A	056G 158901
R948	CHIPR 1.5K OHM +-5% 1/10	061L0805152	IC913	MOSFET_9A/800V_STP10NK80ZFP_TO-220FP	057G 667 32
R949	RST MOF 0R15 1% 1W	061G208M15852T	Q901	FET FCA20N60 TO-3P FAIRCHILD	057G 611 5
R950	RST CHIPR 560 KOHM +-5% 1/8W	061G0805564	Q902	TRA STW25NM60N 20A/600V TO-247	057G 667 48
R951	CHIPR 1K OHM +-5% 1/10W	061L0805102	Q908	2SK3530-01MRSC	057G 667 34
R952	RST CHIPR 100 OHM +-5% 1/8W	061G0805101	Q908	STP7NK80ZFP	057G 667900
R953	RST CHIPR 330 KOHM +-5% 1/8W	061G0805334	Q912	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
R956	RST CHIP 150K 1/8W 1%	061G0805150 3F	Q912	BC857 SOT23	057G 761900 T
R957	RST CHIP 100K 1/8W 5%	061G0805104	Q913	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
R958	RST CHIPR 300 KOHM +-5% 1/8W	061G0805304	Q913	BC857 SOT23	057G 761900 T
R959	RST CHIPR 220 KOHM +-5% 1/4W	061G1206224	Q914	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
R960	RST CHIPR 220 KOHM +-5% 1/4W	061G1206224	Q914	BC857 SOT23	057G 761900 T
R961	RST CHIPR 180 KOHM +-5% 1/4W	061G1206184	Q915	BC847C	057C 419513
R962	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473	Q915	TRA SIG SM BC847C (KEC0) R	057G 477900 T
R963	2.2OHM +-5% 1/6W	061G 60222952T	Q916	BC847C	057C 419513
R964	2.2OHM +-5% 1/6W	061G 60222952T	Q916	TRA SIG SM BC847C (KEC0) R	057G 477900 T
R965	RST CHIPR 2.2 OHM +-5% 1/4W	061G1206229			
R969	RST CHIP 470K 1/4W 1%	061G1206470 3F	PCB Assy	Side_AV_board_vision_D	PTPF6PA1
R970	RST CHIP 470K 1/4W 1%	061G1206470 3F	1055		
R971	RST CHIP 470K 1/4W 1%	061G1206470 3F			
R972	RST CHIPR 8.2KOHM +-1% 1/8W	061G0805820 1F			
R973	RST CHIP 620R 1/8W 1%	061G0805620 0F	Various		
R974	RST MOF 0R3 1% 1/4W	061G 20630852T	CN031	RCA JACK 1*3 Y/W/R 69054	088T 78 13907 FP
R975	RST CHIPR 4.7 KOHM +-5% 1/8W	061G0805472	CN032	MINI DIN JACK 4P BLACK 1471-P41-4S8-54	088T 100900 TN
R976	RST CHIPR 47 OHM +-5% 1/8W	061G0805470	CN033	PHONE JACK 3.5mm 7P BLACK 5102-84V-021-5	088T 302901 TN
R977	RST CHIP 10R 1/4W 5%	061G1206100	CN034	RCA JACK 1*3 Y/W/R 69054	088T 78 13907 FP
R978	RST CHIPR 330 KOHM +-5% 1/8W	061G0805334			
R979	CHIPR 1K OHM +-5% 1/10W	061L0805102	C031	CHIP 0.0068UF 50V X7R 0603	065G0603682 32
R980	RST CHIPR 3.3 KOHM +-5% 1/8W	061G0805332	C031	CAP CHIP 0603 6N8 50V X7R 10%	065G060368232K
R981	RST CHIPR 47 KOHM +-5% 1/8W	061G0805473	C032	CHIP 0.0068UF 50V X7R 0603	065G0603682 32
RV902	VARISTOR 510V TVR14511KFC4FY	061G 46902	C032	CAP CHIP 0603 6N8 50V X7R 10%	065G060368232K
TH902	NTC 0R75 15% SCK100R75MSY001 BY THINKINGO61G 58905 WT		C033	CHIP 330PF 50V X7R	065G0603331 32
			C033	CHIP 330PF 50V X7R	065G0603331 32
FB904	FERRITE CORE 3.5*4.7*1 BF40TA-3.5x4.7x1B	071G 55907	C034	CHIP 330PF 50V X7R	065G0603331 32
FB905	FERRITE CORE 3.5*4.7*1 BF40TA-3.5x4.7x1B	071G 55907	C034	CHIP 330PF 50V X7R	065G0603331 32
FB914	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	C035	CER1 0603 NPO 50V 100P PM5 R	065G0603101 31
FB914	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	C035	CAP CHIP 0603 100P 50V NPO 5%	065G060310131J
FB915	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	C036	820PF 50V +-5% NPO	065G0603821 31
FB915	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	C036	820PF 50V +-5% NPO	065T0603821 31
FB917	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	C037	CER1 0603 NPO 50V 100P PM5 R	065G0603101 31
FB917	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	C037	CAP CHIP 0603 100P 50V NPO 5%	065G060310131J
FB919	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901			
FB919	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R031	RST CHIPR 0 OHM +-5% 1/10W	061G0603000
FB920	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	R032	RST CHIPR 0 OHM +-5% 1/10W	061G0603000
FB920	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R033	RST CHIPR 75 OHM +-5% 1/10W	061G0603750
FB921	FERRITE CORE 2.5*3*1 BF30TA-2	071G 55901	R034	RST CHIPR 75 OHM +-5% 1/10W	061G0603750
FB921	FERRITE CORE 35R W5 RH 2.5X3X1.0	071G 55902	R035	RST CHIPR 0 OHM +-5% 1/10W	061G0603000
L910	CHOKO COIL 2.4uH+-20% 4.5mohm R5*20	073T 253911 HJ	R036	RST CHIPR 75 OHM +-5% 1/10W	061G0603750
L911	CHOKO COIL 2.3uH+-20% 7.2mohm R4*15	073T 253910 HJ	R037	RST CHIPR 3.3 KOHM +-5% 1/10W	061G0603332
L912	LINE FILTER 8mH 4.0A HJC-S6027	073T 174915 HJ	R038	RST CHIPR 3.3 KOHM +-5% 1/10W	061G0603332
L913	LINE FILTER 8mH 4.0A HJC-S6027	073T 174915 HJ	R039	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
L914	PFC CHOKE 380uH 130mohm HJC-S5232	073T 174913 HJ	R040	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
L914	PFC CHOKE 380uH 130mohm QPH5004AL	073T 174913 LS	R041	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
L915	PEAKING COIL 47uH+-10%	073T 5447010T	R042	RST CHIPR 47 KOHM +-5% 1/10W	061G0603473
L916	PEAKING COIL 47uH+-10%	073T 5447010T			
BD901	BRIDGE 6A/600V GBU6J VISHAY	093G 50460902	FB031	CHIP BEAD	071G 56K121 M
BD901	Diode GBU605	093T 504601AP	FB032	CHIP BEAD 120R/6000mA HCB2012KF-121T60	071G 56K121 TA
D901	BRIDGE GBU606 6A/600V GBU	093T 50460904	FB032	CHIP BEAD	071G 56K121 M
D906	DIODE STTH8L06FP	093G 220900	FB032	CHIP BEAD 120R/6000mA HCB2012KF-121T60	071G 56K121 TA
D906	LL4148-GS08	093G 6432V			
D906	BAS32L	093G 64S3PH	PCB Assy	IR board	IRPF7ZA1
D907	DIO REC BYT42D A (VISH) A	093G 60905	1056		
D907	RG10-DO-204AL	093G 64 5152T			
D907	DIO REC RGP10D A (GULF) A	093G 6490352T	Various		
D908	DIO REC BYT42D A (VISH) A	093G 60905	SW001	SWI TACT H=5 GY 160G SKHHAM B	077G 605 1 FD
D908	RG10-DO-204AL	093G 64 5152T	SW002	SWI TACT H=5 GY 160G SKHHAM B	077G 605 1 FD
D908	DIO REC RGP10D A (GULF) A	093G 6490352T			
D910	LL4148-GS08	093G 6432V	C001	CAP CHIP 0603 100N 16V X7R +/-10%	065G060310412K
D910	BAS32L	093G 64S3PH	C001	CHIP 0.1UF 16V X7R	065T0603104 12 GP
D911	DIO REC BYT42D A (VISH) A	093G 60905	C002	CAP CHIP 0603 100N 16V X7R +/-10%	065G060310412K
D911	RG10-DO-204AL	093G 64 5152T	C002	CHIP 0.1UF 16V X7R	065T0603104 12 GP
D911	DIO REC RGP10D A (GULF) A	093G 6490352T	C003	CAP CHIP 0603 100N 25V X7R +/-10%	065G060310422K
D912	DIO REC BYT42D A (VISH) A	093G 60905			
D912	RG10-DO-204AL	093G 64 5152T	R001	RST CHIPR 220 OHM +-5% 1/10W	061G0603221
D912	DIO REC RGP10D A (GULF) A	093G 6490352T	R001	CHIPR 220 OHM +-5% 1/16W	061L0603221
D914	DIO SIG SM BAV103 (VISH) R	093G 64901 T	R002	RST CHIPR 220 OHM +-5% 1/10W	061G0603221
D914	DIODE BAV103 SOD-80C PHILIPS	093G 52S900 T	R002	CHIPR 220 OHM+-5% 1/16W	061L0603221
D915	DIO SIG SM BAV103 (VISH) R	093G 64901 T	R003	100 OHM 5% 1/4W	061G 17210152T
D915	DIODE BAV103 SOD-80C PHILIPS	093G 52S900 T	R003	100 OHM 5% 1/4W	061T 17210152T
D918	Diode BAV21	093K 6450752T	R004	4.7K OHM 5% 1/6W	061G 60247252T
D919	DIO SIG SM BAV103 (VISH) R	093G 64901 T	R004	4.7K OHM 5% 1/6W	061T 60247252T
D919	DIODE BAV103 SOD-80C PHILIPS	093G 52S900 T	R005	RST CHIPR 4.7 KOHM +-5% 1/4W	061G1206472
D920	Diode BAV21	093K 6450752T		D001 ASSY	705TPLK0 81007
D922	DIODE SP20100R TO-220FP	093G 60282	D002	LED VS L-3WSYKPBW	081G 12 8 KB
D922	STPS20H100CFP	093T 60262			
D924	DIODE UF1007 1A 1000V DO-41	093G110090052T	Q001	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
D924	DIO REC STTH110 (ST00) A	093G110090252T	Q001	BC857 SOT23	057G 761900 T
D925	DIODE UF1007 1A 1000V DO-41	093G110090052T	Q002	TRA SIG SM BC857CG (ONSE) R	057G 420519 T
D925	DIO REC STTH110 (ST00) A	093G110090252T	Q002	BC857 SOT23	057G 761900 T
D926	DIODE	093G202050052T	U001	U001 ASSY	705TPLK0 81003
D926	DIO REC SBYV27-200-E3 (VISH) A	093G202090052T	U002	IC TSOP34136SB1	056G 627801
D927	DIODE SP1060 10A/60V_ITO-220	093C 60278			
D927	SCHOTTKY MBRF1060CT ITO-220AB	093G 60526	PCB Assy	Key board	KEPF7ZA1
D929	DIO SIG SM BAV103 (VISH) R	093G 64901 T	1057		
D929	DIODE BAV103 SOD-80C PHILIPS	093G 52S900 T			
ZD902	DIODE P6KE120A DO-15	093G 3990052T	Various		

10.Recommended/Spare Parts List

SW101	SWI TACT SM 1P 1POS SKQGAB R	077G 604 1 AL
SW101	TACT SW BY FORWARD SFKQGMA2125T-PL	077G 607 2 FD
SW102	SWI TACT SM 1P 1POS SKQGAB R	077G 604 1 AL
SW102	TACT SW BY FORWARD SFKQGMA2125T-PL	077G 607 2 FD
SW103	SWI TACT SM 1P 1POS SKQGAB R	077G 604 1 AL
SW103	TACT SW BY FORWARD SFKQGMA2125T-PL	077G 607 2 FD
SW104	SWI TACT SM 1P 1POS SKQGAB R	077G 604 1 AL
SW104	TACT SW BY FORWARD SFKQGMA2125T-PL	077G 607 2 FD
SW105	SWI TACT SM 1P 1POS SKQGAB R	077G 604 1 AL
SW105	TACT SW BY FORWARD SFKQGMA2125T-PL	077G 607 2 FD
		
C101	CAP CHIP 0805 100N 25V X7R +/-10%	065G080510422K
		
R101	RST CHIPR 18 KOHM +-5% 1/8W	061T0805183
R102	RST CHIPR 3.6 KOHM +-1% 1/8W	061T0805360 1F
R103	CHIP 1KOHM 1/10W	061G0805102
R104	RST CHIPR 5.6 KOHM +-5% 1/8W	061T0805562
R105	RST CHIPR 47 KOHM +-5% 1/8W	061T0805473

Diversity of 37TA2800/79(LPL) compared with 37TA2800/98(LPL)					
37TA2800/79(8670 000 27469)			37TA2800/98(8670 000 27468)		
Item	18 Code Number	DESCRIPTION	Item	18 Code Number	DESCRIPTION
1	095T8014 10A01 FP	WIRE HARNESS 10P-10P 440mm 76908	1	095T8014 10A00 FP	WIRE HARNESS 10P-10P 520mm 47749
5	P33T0087PAEA1C	Lens_Power	5	P33T0087ABVA1C	Lens_Power
11	P33T0086ACNA1C	BUTTON-POWER	11	P33T0086ACNA1T	BUTTON POWER
12	705TZ785005	MAIN SHIELD ASSY	12	705TP785001	MAIN SHIELD ASSY
23	P15T0204101	BKT-RA	23	P15T0062 1	BKT-RA
24	705TP715008	BRACKET-SIDE-AV ASSY	24	705TPLK0M15001	BKT-RB ASSY
27	P15T0204301	BKT-LA	27	P15T0073 1	BKT-LA
46	Z40TLN0081315A	Rating label	46	Z40TLN0081314A	RATING LABEL
50	Z15T0001 1	Wall Mount Kit	50	P15T0114 1	WALL MOUNT KIT
52	705TZ701011	DFU assy	52	705TZ7E01015	DFU assy
1070	089G412A18NIS1	MAINSCORD AUS/NZ 10A 1M8 BK	1070	089G404A18N IS	POWER CORD
1070	089G412A18NLS1	MAINSCORD AUS/NZ 7A5 1M8 BK	1070	089G404A18NLS1	POWER CORD PG8B1C3C300-060
1071	089G402A18NIS5	MAINSCORD UL 10A 1M8 DET BK	1071	089G410A18NLSB	POWER CORD 1.8M PY8B1V6CC0A-060
1071	089G402A18NLS2	MAINSCORD			
1053	CBPF6T2LZA1	Scalar board Assembly	1053	CBPF6T2CZA1	Scalar board Assembly
C1222	065G0603821 21	CHIP 820PF 25V MPO	C1222	065G060382132K	CAP CHIP 0603 820P 50V X7R +/-10%
C5124	067G 3111013CT	EC 100uF 16V HV 6.3x5.5mm	C5124	067T 312101 4	EC SMD 85# 100UF M 25V
C5124	067T 3111013ET	EC 100uF 16V VEL 6.3x5.5mm	C5124	067T 312101 4	EC SMD 85# 100UF M 25V
C6240	065G060310221J	CAP CHIP 0603 1N 25V NPO +/-5%			
C6241	065G060310221J	CAP CHIP 0603 1N 25V NPO +/-5%			
C6302	065G080547422K	CAP CHIP 0805 470N 25V X7R +/-10%	C6302	065G0805474 22	CHIP 0.47UF 25V X7R 0805
C6343	065G080547422K	CAP CHIP 0805 470N 25V X7R +/-10%	C6343	065G0805474 22	CHIP 0.47UF 25V X7R 0805
C7206	065T120622522K	CAP CHIP 1206 2.2UF K 25V X7R	C7206	065C1206225 22	2.2UF 25V X7R 1206
R5131	061G0603100	RST CHIPR 10 OHM +/-5% 1/10W	R5131	061G0603101	RST CHIPR 100 OHM +/-5% 1/10W
R5139	061G0603154	RST CHIPR 150 KOHM +/-5% 1/10W			
R7106	061G0603472	RST CHIPR 4.7KOHM +/-5% 1/10W	R7106	061G0603103	RST CHIPR 10 KOHM +/-5% 1/10W
R7107	061G0603472	RST CHIPR 4.7KOHM +/-5% 1/10W	R7107	061G0603103	RST CHIPR 10 KOHM +/-5% 1/10W
U1201	094TNPALALL P1	TUNER FQ1216PN/I H-5 PHILIPS	U1201	094TPASEALL 3P	FQ1216ME/IH-5(SV22)
U6202	056G 593504	MSP3450G-QI-B8-V3 PMQFP-64	U6202	056G 593901	IC MSP3410G-QI-B8V3 PMQFP64
	705TZE56002	FLASH ASSY		705TZE56001	FLASH ASSY
	100GZ2101000021	FLASH Software		100GZ2101000011	FLASH Software
	Z40TL00081310A	FLASH Label		Z40TL000813 8A	FLASH LABEL
	705TZE56008	EEPROM Assembly		705TZE56007	EEPROM Assembly
	100GZ201000021	EEPROM Data		100GZ201000011	EEPROM Data
	Z40TL00081311A	EEPROM Label		Z40TL000813 9A	EEPROM Label

Diversity of 42TA2800/79(LPL) compared with 42TA2800/98(LPL)					
42TA2800/79(8670 000 27473)			42TA2800/98(8670 000 27472)		
Item	18 Code Number	DESCRIPTION	Item	18 Code Number	DESCRIPTION
1071	089G402A18NIS5	MAINSCORD UL 10A 1M8 DET BK	1071	089G410A18NLSB	POWER CORD 1.8M PY8B1V6CC0A-060
1071	089G402A18NLS2	MAINSCORD	1071	089G410A18NLSB	POWER CORD 1.8M PY8B1V6CC0A-060
1070	089G412A18NIS1	MAINSCORD AUS/NZ 10A 1M8 BK	1070	089G404A18N IS	POWER CORD
1070	089G412A18NLS1	MAINSCORD AUS/NZ 7A5 1M8 BK	1070	089G404A18NLS1	POWER CORD PG8B1C3C300-060
1053	CBPF6T2LZA2	Scalar board Assembly	1053	CBPF6T2CZA2	Scaler Board ass'y
C1222	065G0603821 21	CHIP 820PF 25V MPO	C1222	065G060382132K	CAP CHIP 0603 820P 50V X7R +/-10%
C5124	067G 3111013CT	EC 100uF 16V HV 6.3x5.5mm	C5124	067T 312101 4	EC SMD 85°C 100UF M 25V
C5124	067T 3111013ET	EC 100uF 16V VEL 6.3x5.5mm	C5124	067T 312101 4	EC SMD 85°C 100UF M 25V
C6240	065G060310221J	CAP CHIP 0603 1N 25V NPO +/-5%			
C6241	065G060310221J	CAP CHIP 0603 1N 25V NPO +/-5%			
C6343	065G080547422K	CAP CHIP 0805 470N 25V X7R +/-10%	C6343	065G0805474 22	CHIP 0.47UF 25V X7R 0805
C7206	065T120622522K	CAP CHIP 1206 2.2UF K 25V X7R	C7206	065C1206225 22	2.2UF 25V X7R 1206
R5131	061G0603100	RST CHIPR 10 OHM +/-5% 1/10W	R5131	061G0603101	RST CHIPR 100 OHM +/-5% 1/10W
R5139	061G0603154	RST CHIPR 150 KOHM +/-5% 1/10W			
R7106	061G0603472	RST CHIPR 4.7KOHM +/-5% 1/10W	R7106	061G0603103	RST CHIPR 10 KOHM +/-5% 1/10W
R7107	061G0603472	RST CHIPR 4.7KOHM +/-5% 1/10W	R7107	061G0603103	RST CHIPR 10 KOHM +/-5% 1/10W
U1201	094TNPALALL P1	TUNER FQ1216PN/I H-5 PHILIPS	U1201	094TPASEALL 3P	FQ1216ME/IH-5(SV22)
U4101	705TZE56011	EEPROM Assembly	U4101	705TZE56010	EEPROM Assembly
U4502	705TZE56005	FLASH ASSY	U4502	705TZE56004	FLASH ASSY
U6202	056G 593504	MSP3450G-QI-B8-V3 PMQFP-64	U6202	056G 593901	IC MSP3410G-QI-B8V3 PMQFP64

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12.Revision List

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