
LCD TV

Model No. HBTv-55D02FD



ATENÇÃO

Este manual técnico é de uso exclusivo da Rede Autorizada H-Buster. Não existem peças ou partes que possam ser reparados pelo consumidor final, sob riscos de choque elétrico, causando ferimentos graves. É proibida a distribuição, comercialização ou cópia deste documento. Sujeito a modificações.

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Chapter 1. General Information

1-1. General Guidelines

When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.

After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

- 1) Leakage Current Cold Check
- 2) Leakage Current Hot Check
- 3) Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive

1-2. Important Notice

1-2-1. Follow the regulations and warnings

Most important thing is to list up the potential hazard or risk for the service personnel to open the units and disassemble the units. For example, we need to describe properly how to avoid the possibility to get electrical shock from the live power supply or charged electrical parts (even the power is off).



This symbol indicates that high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying the appliance.

1-2-2. Be careful to the electrical shock

To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture. This TV must not be exposed to dripping or splashing water, and objects filled with liquid, such as vases, must not be placed on top of or above the TV.

1-2-3. Electrostatic discharge (ESD)

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. The following techniques should be used to help reduce the incidence of component damage caused by electrostatic discharge (ESD).

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.

1-2-4. About lead free solder (PbF)

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repairing of this product.

1-2-5. Use the genewing parts (specified parts)

Special parts which have purposes of fire retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacture's specified parts shown in the parts list.

Safety Component

- Components identified by mark have special characteristics important for safety.

1-2-6. Safety check after repairment

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the positions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before:
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.

Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

Capacitors may result in an explosion hazard.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last. Capacitors may result in an explosion hazard.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

9. Remove the antenna terminal on TV and turn on the TV.
10. Insulation resistance between the cord plug terminals and the external exposure metal should be more than Mohm by using the 500V insulation resistance meter.

11. If the insulation resistance is less than M ohm, the inspection repair should be required. If you have not the 500V insulation resistance meter, use a Tester. External exposure metal: Antenna terminal Headphone jack.

12. Use only a grounded-tip soldering iron to solder or unsolder ES devices.

13. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.

14. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.

15. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.

(Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).

16. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

17. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

1-2-7. Ordering Spare Parts

Please include the following informations when you order parts. (Particularly the Version letter)

1. Model number, serial number and software version

The model number and serial number can be found on the back cover of each product. Software version can be found in the *Spare Parts List*.

2. Spare part No. and description

Spare part No. and description can be found in the *Spare Parts List*.

1-2-8. Photo used in this manual

The illustration and photos used in this Service Manual may not base on the final design of products, which may differ from your products in some way.

1-3. How to Read this Service Manual

1-3-1. Using icons:

Icons are used to attract the attention of the reader to specific information. The meaning of each icon is described in the table below:



Note:

A “note” provides information that is not indispensable, but may nevertheless be valuable to the reader, such as tips and tricks.



Caution:

A “caution” is used when there is danger that the reader, through incorrect manipulation, may damage equipment, lose data, get an unexpected result or has to restart (part of) a procedure.



Warning:

A “warning” is used when there is danger of personal injury.



Reference:

A “reference” guides the reader to other places in this binder or in this manual, where he/she will find additional information on a specific topic.

Chapter 2. Specification

2-1. Specification list

MODELO	HBTv-55D02FD
Tamanho de Tela	55 polegadas
Taxa de Aspecto	16:9
Resolução	1920 * 1080
Tempo de Resposta (ms)	6 ms
Ângulo de Visão	178°
Contraste	5000:1
Brilho	450 cd/m ²
Idioma OSD	Ing/ Por/ Esp
Sistema de Cor	PAL / NTSC / ISDB-Tb
Sistema de Audio	M / N
Potência de saída (W)	10W * 2
Consumo (W)	160W
Tensão de entrada (V)	100-240V
Frequência (Hz)	50/ 60Hz
Peso Líquido (Kg)	28,5 (com pedestal)
Peso Bruto (Kg)	32 (sem pedestal)

2-2. External pictures (four faces)



Front Side



Left Side



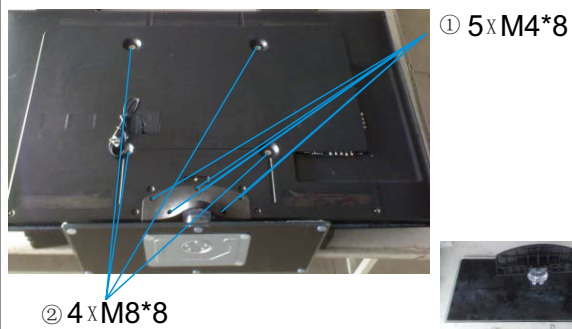
Right Side



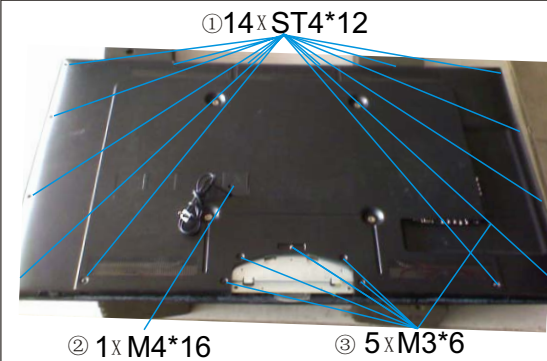
Back Side

Chapter 3. Disassemble and Assemble

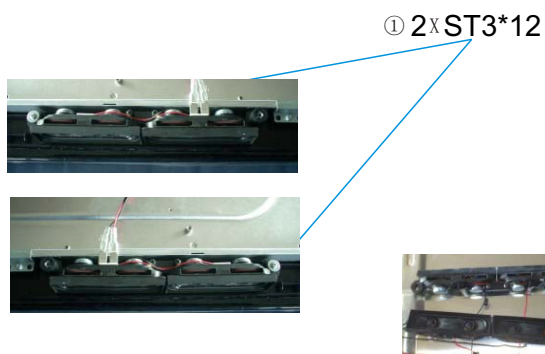
1. 1 Remove the bottom



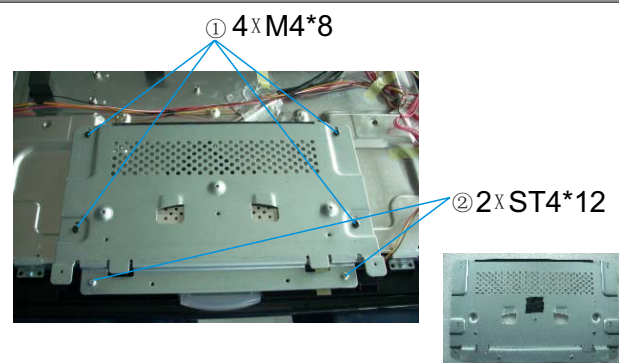
1. 2 Remove the back cover



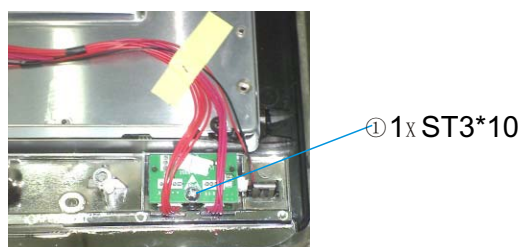
1. 3 Remove the speaker



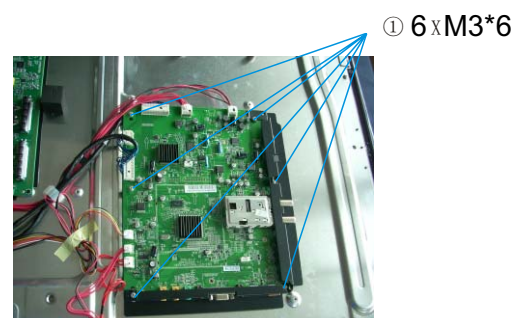
1. 4 Remove the connection of the bottom



1. 5 Remove the Remote Control Board Assembly

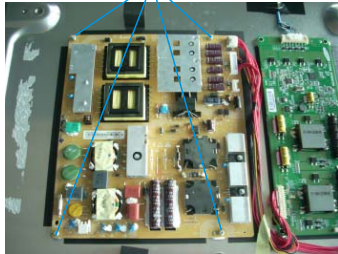


1. 6 Remove the mainboard



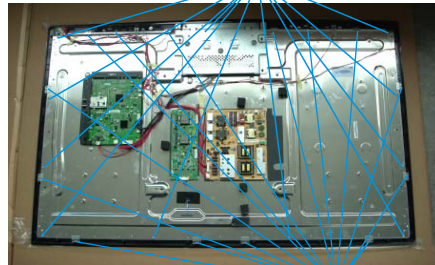
1. 7 Remove the power supply

① 4x M3*6



1. 8 Remove the panel

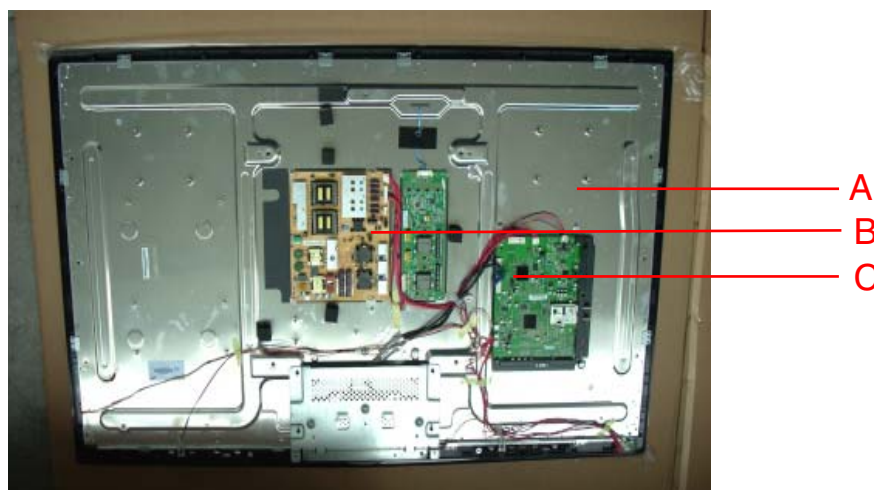
① 10x ST4*12



② 14x ST3*8

Chapter 4. Location of Controls and Components

4-1. Board Locations:



Item	Parts number	Descrição
A	410453	Tela de LCD
B	410455	PCI da Fonte
C	410455	Placa Principal

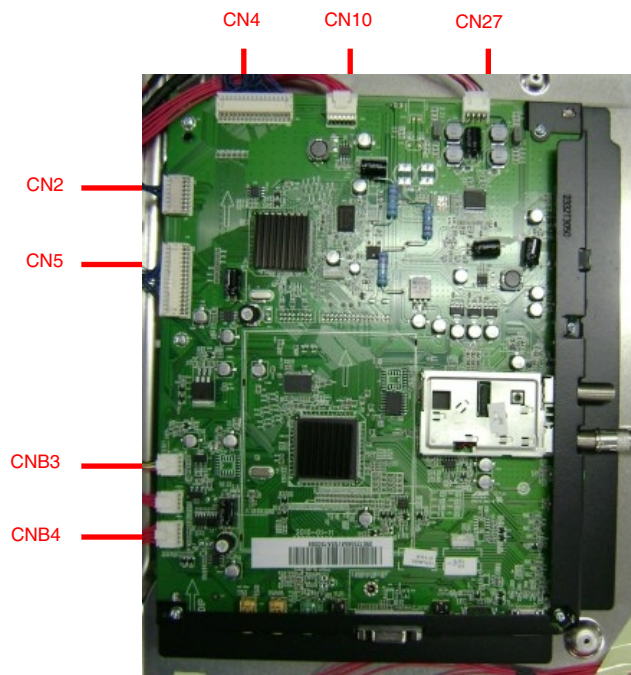
OBS.: OS ITENS ACIMA SOMENTE PODEM SER SOLICITADOS MEDIANTE CONSULTA AO SUPORTE TÉCNICO !!!

4-2. Mainboard

4-2-1. Function Description:

Process signal which incept from exterior equipment then translate into signal that panel can display.

4-2-2.Connector definition



HBTV-55D02FD

Remote connectors (CNB4)

Pin number	Signal name	Description
1	5VSTB	5V-Stand
2	IR	IR IN
3	LED_R	LED-RED
4	LED_B	LED-BLUE
5	GND	GND

Key connectors (CNB3)

Pin number	Signal name	Description
1	GND	GND
2	KEY0	KEY0
3	KEY1	KEY1
4	33V	33V

Speaker connectors (CN27)

Pin number	Signal name	Description
1	L+	Left of audio
2	L-	Left of audio
3	R-	Right of audio
4	R+	Right of audio

Power connectors (CN10)

Pin number	Signal name	Description
1	12V	12V-Mainboard
2	12V	12V-Mainboard
3	GND	GND
4	12V	12V-Mainboard
5	GND	GND
6	GND	GND
7	5VSTB	5V_standby
8	E-PWM	External PWM Control
9	GND	GND
10	PW-ON/OFF	Power on/off
11	NC	NO Connection
12	PB-ON/OFF	Back light on/off

4-3. Power Supply Board

4-3-1. Function description: to supply power for Mainboard, Panel.

4-3-2. Connector definition:



CN1

Pin Number	Signal Name
1	L
2	R

CN2

Pin Number	Signal Name
1	12V
2	12V
3	GND
4	12V
5	GND
6	GND
7	5V
8	PWM-DIMMING
9	GND
10	P-ON/OFF
11	NC
12	B-ON/OFF

CN3

Pin Number	Signal Name
1	24V
2	24V
3	24V
4	24V
5	24V
6	GND
7	GND
8	GND
9	GND
10	GND
11	STATUS
12	BL-ON/OFF
13	NC
14	PWM-DIMMING

Chapter 5. Operation Instructions (simplified)

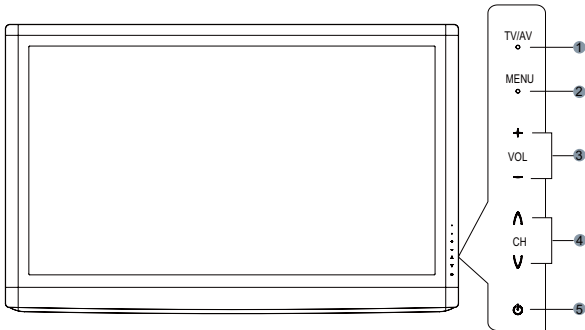
5-1. Get to know your TV

- This is a simplified representation of front panel.
- Here shown may be somewhat different from your TV.

Controls

This is a simplified representation of the TV front panel, side panel control buttons and side inputs.

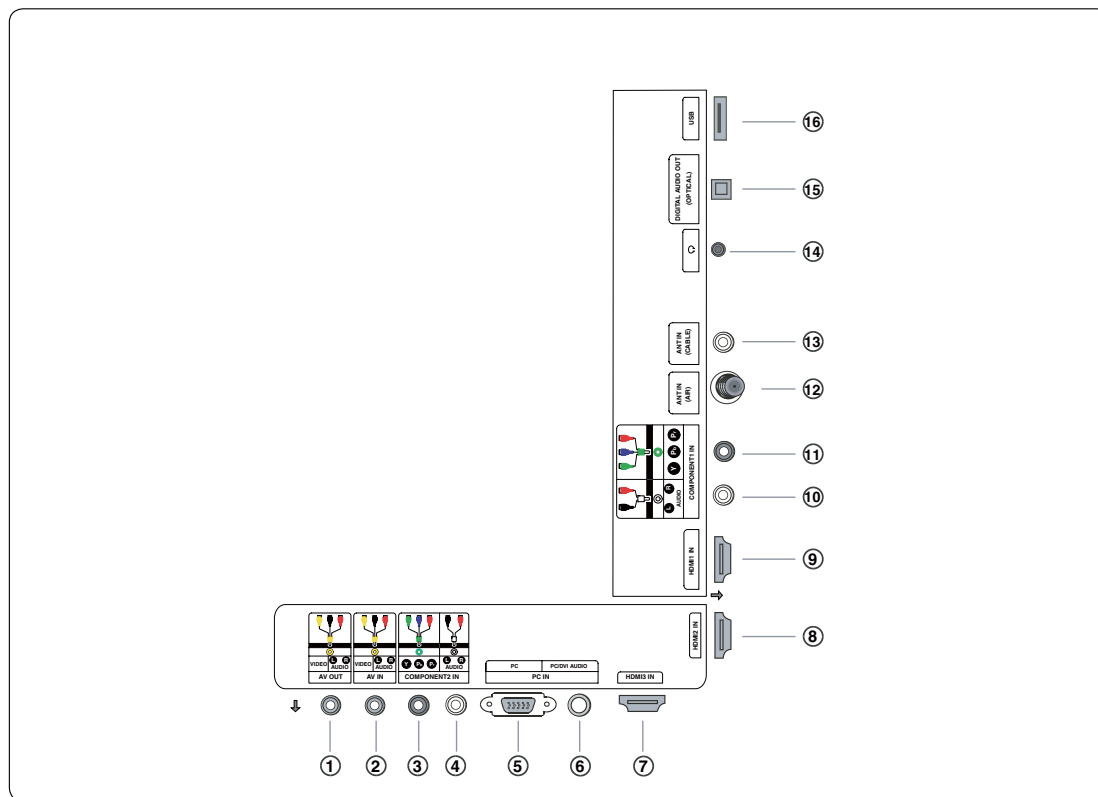
TV Side panel controls and connections



①	TV/AV	Press this key to open/close signal source options menu.
②	MENU	Menu display. Press to access the on-screen menu display.
③	VOL +/-	Press to adjust the volume. In the MENU screen, these buttons serve as right/left buttons.
④	CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either +/- . In the MENU screen, these buttons serve as up/down buttons.
⑤	POWER	Press to turn on and off the TV.

Connection Options

Back panel connections



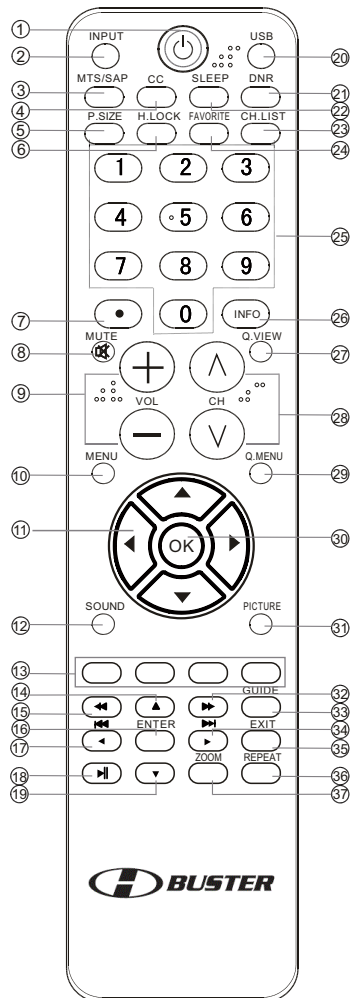
①	AV OUT	Connect the audio L/R and video cables to your other video equipment.
②	AV In	Connect the AV signal from a video device to this jack.
③	Component 2 Video In	Connect a component video device to this jack.
④	Component 2 Audio In	Connect the audio L/R cables from the component video signal source to this jack.
⑤	PC Video In	Connect a video cable from a computer to this jack.
⑥	PC/DVI Audio In	Connect the audio L/R cables from a computer to this jack.
⑦	HDMI3 In	Connect a HDMI device to receive digital audio and uncompressed digital video.
⑧	HDMI2 In	Connect a HDMI device to receive digital audio and uncompressed digital video.

⑨	HDMI1 In	Connect a HDMI device to receive digital audio and uncompressed digital video.
⑩	Component1 Video In	Connect a component video device to this jack.
⑪	Component1 Audio In	Connect the audio L/R cables from the component audio signal source to this jack.
⑫	Antenna Input	Connect RF antenna to this jack.
⑬	Cable Input	Connect cable signals to this jack.
⑭	Headphone jack	Headphone audio output terminal.
⑮	Digital Audio Output	Connect various types of digital audio equipment.
⑯	USB jack	Connect USB storage device to this jack.

5-2. Get to know your remote control

Remote control

The remote control cannot be operated unless the batteries are properly loaded.
When using the remote control, aim it at the remote sensor on the TV.

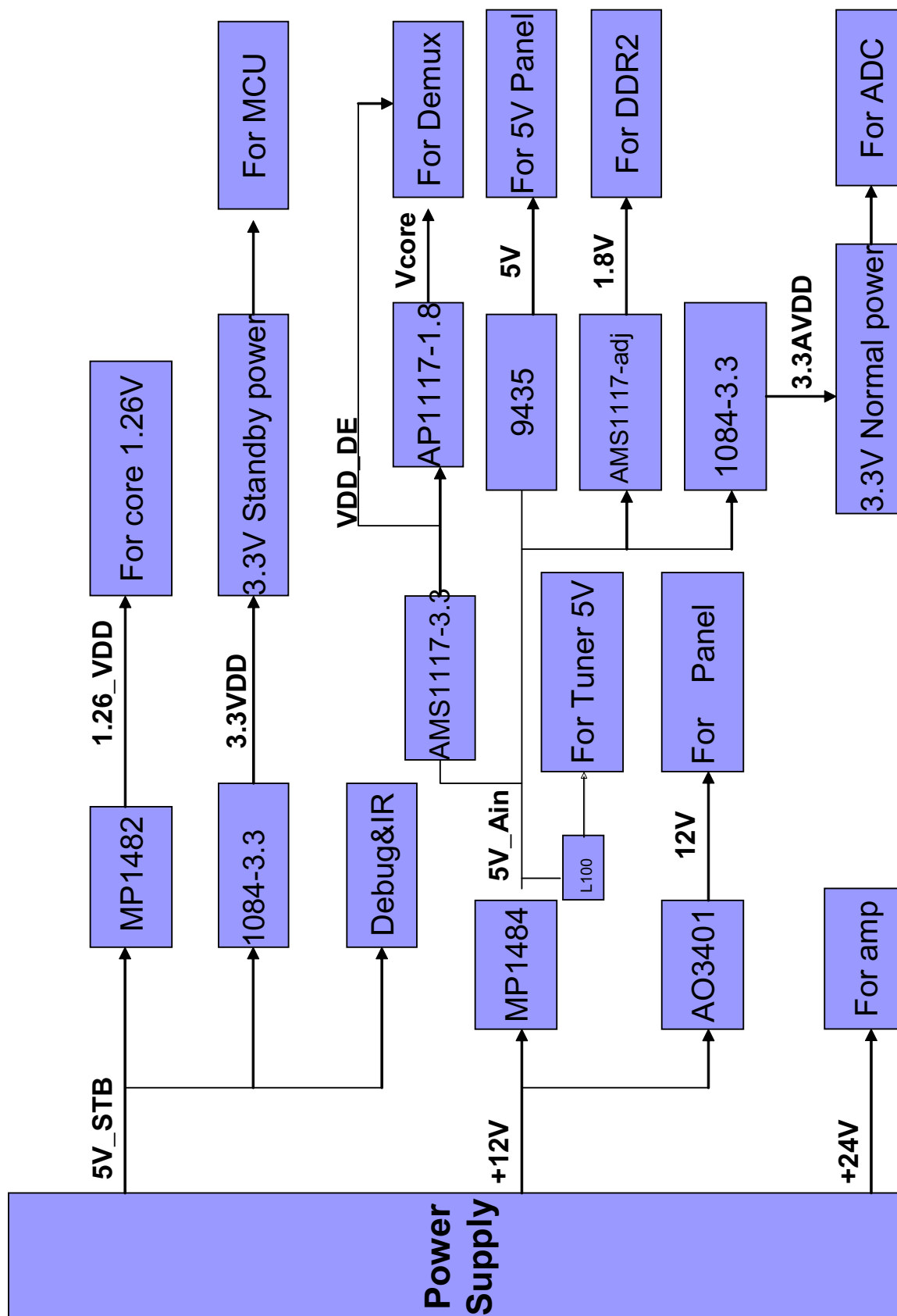


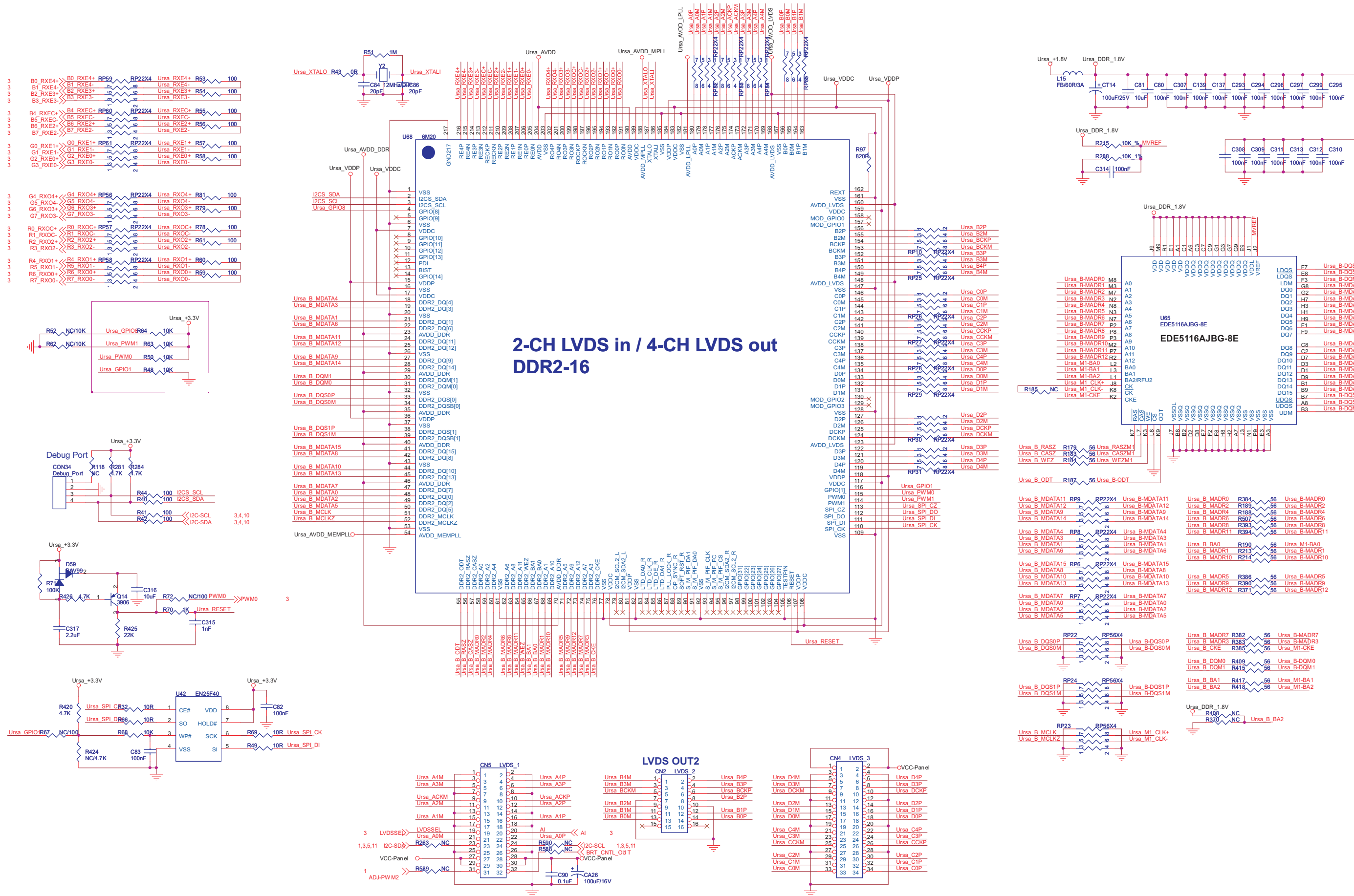
①	Power	Press to turn on and off the TV
②	INPUT	Show the input source
③	MTS/SAP	Select MONO, STEREO, SAP
④	CCD (closed caption)	Select a closed caption option
⑤	P.SIZE	Select the aspect ratio
⑥	H.LOCK	Hotel Lock button
⑦	• button	Press to select digital channels. For example, to enter "54-3", press "54", "•" and "3"
⑧	MUTE	Switches the sound on or off
⑨	VOLUME UP/DOWN	Press to adjust the volume
⑩	MENU	Press to open the on-screen menu
⑪	Thumbstick (Up/Down/Left/Right)	Allows you to navigate the on-screen menus and adjust the system settings to your preference
⑫	SOUND	Press to cycle through different sound settings
⑬	Color button	Press to operate the Functions in GUIDE/Program Edit/Block Program/USB
⑭	Thumbstick(USB)	Allows you to navigate the on-screen menus in USB function, and 17 for Previous, 34 for Next;
⑮		
⑯		
⑰		
⑱	REV	Fast Reverse (Only for USB)
⑲	ENTER	Confirm button (Only for USB)
⑳	Play/Pause button	(Only for USB)
㉑	USB	Press to switch input source to USB in
㉒	DNR	Digital Noise Reduction
㉓	SLEEP button	Press to display the sleep timer option
㉔	CH.LIST	Open the channel list in TV
㉕	FAVORITE	Open the favourite channel list in TV
㉖	Number buttons	Press to change a channel
㉗	INFO	Show Informations about the programs and USB files
㉘	Q.VIEW	Press to jump back and forth between two channels
㉙	CHANNEL UP/DOWN	Press to scan between the last two channels, press and hold down either +/-
㉚	Q.MENU	Adjust some functions in common use
㉛	OK	Accesses the highlighted item in the on-screen menu
㉜	PICTURE	Press repeatedly to cycle through the available picture modes
㉝	FWD	Fast forward
㉞	GUIDE	Display the guide when you are watching analog or digital channels
㉟	EXIT	Clears all on-screen displays and returns to TV viewing from any menu
㊱	REPEAT	Replay a music or movie
㊲	ZOOM	Press to magnify/minify an image

Chapter 6. Electrical Parts

6-1. Block Diagram

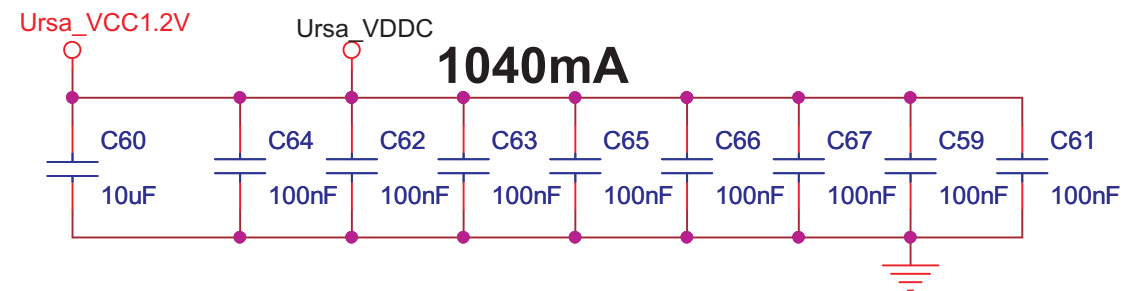
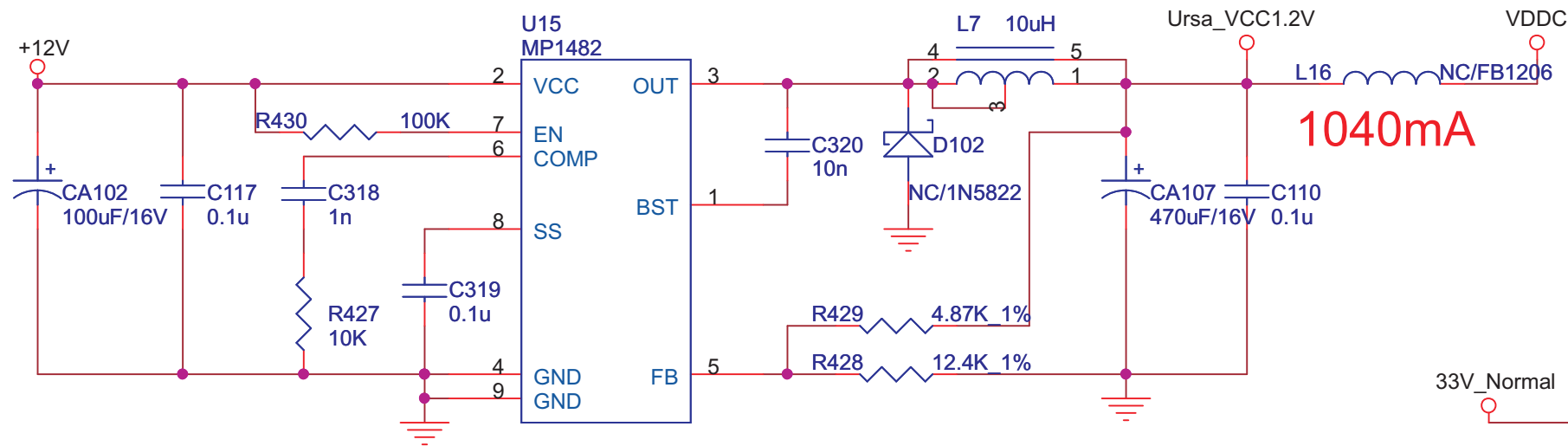
(These blocks may be different from the electrical graphics, refer to Circuit Diagram below)



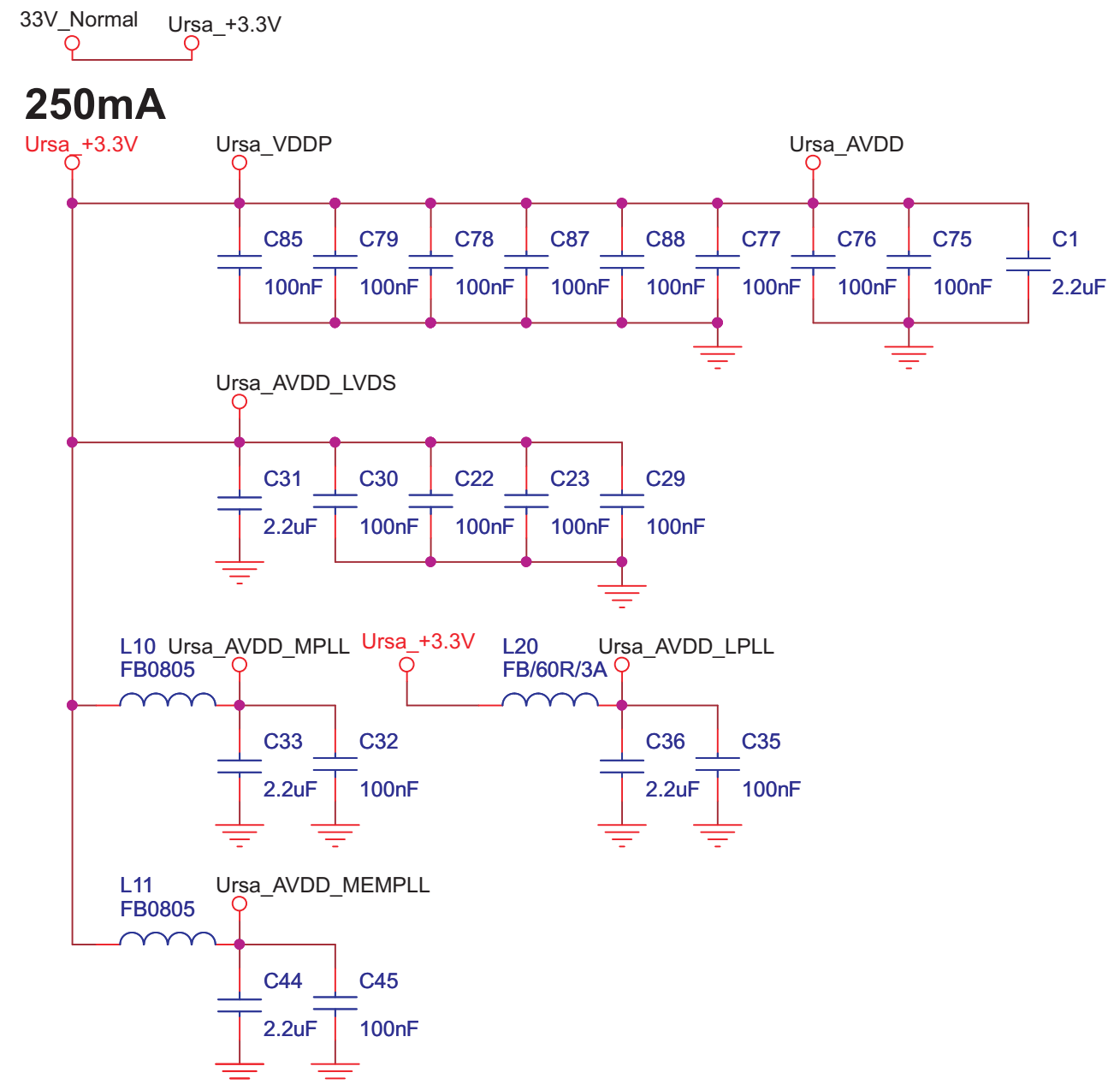
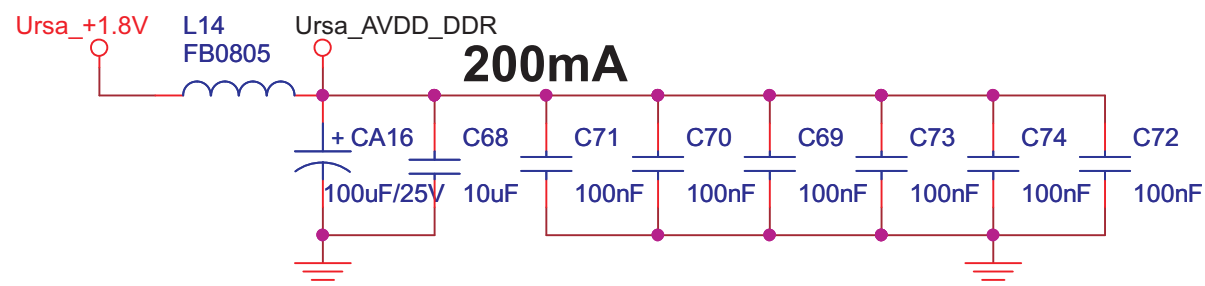
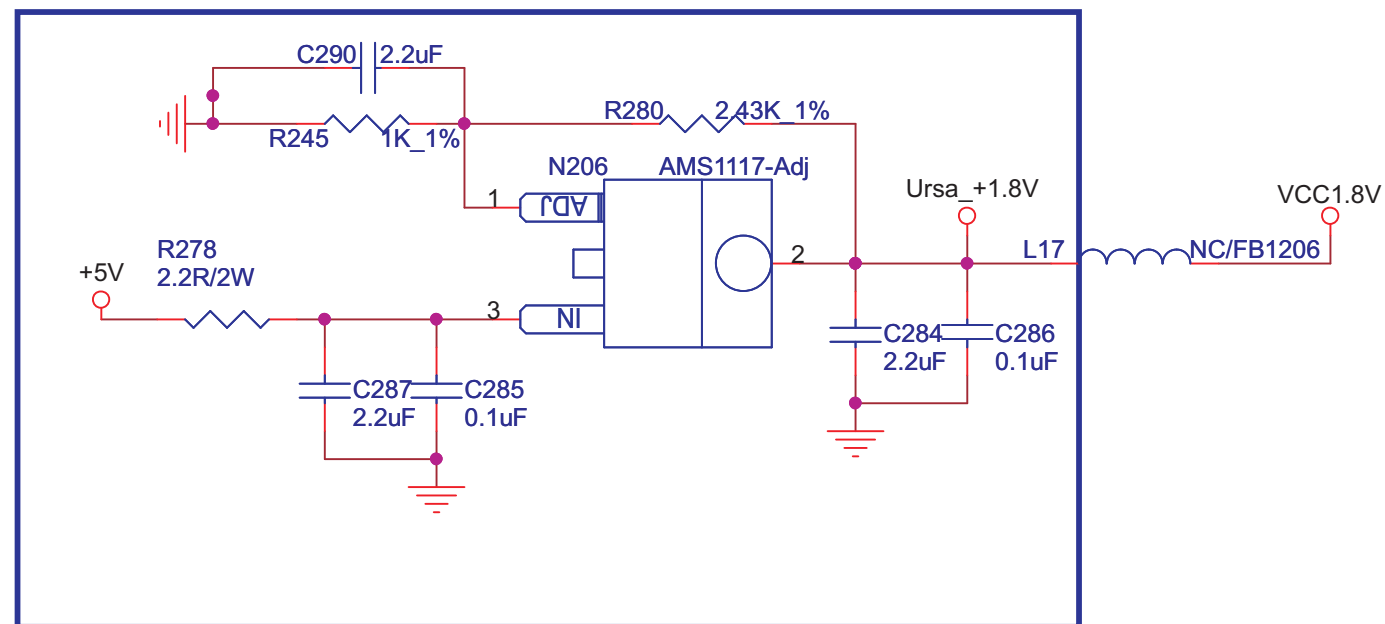


01	21/09/10	Liberação inicial			
Revisão	Data	Documento	Descrição		
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Escala S/E	Dimensão mm	Tol.não especificada	Página 1/12	Código matriz	
PCI principal HBTV-55D02FD				Código sistema	

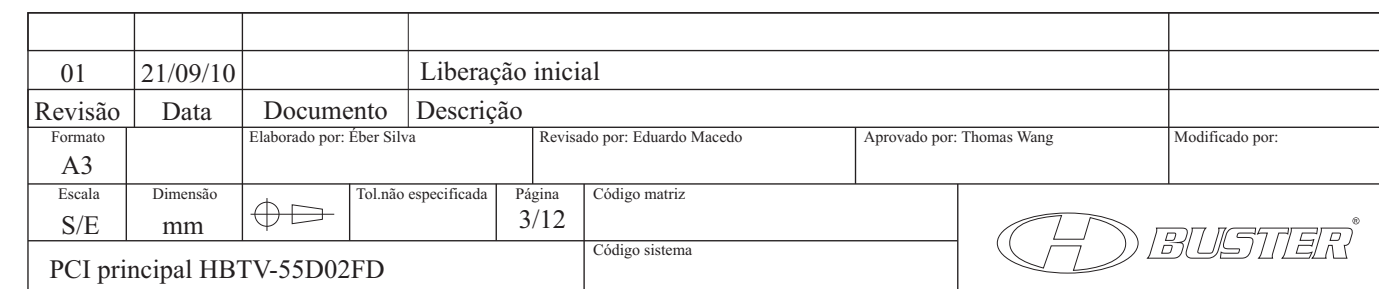


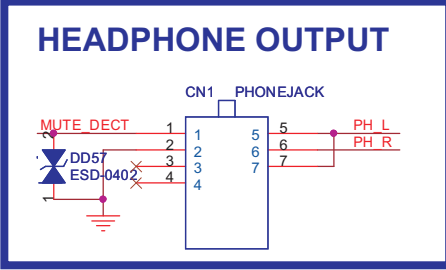
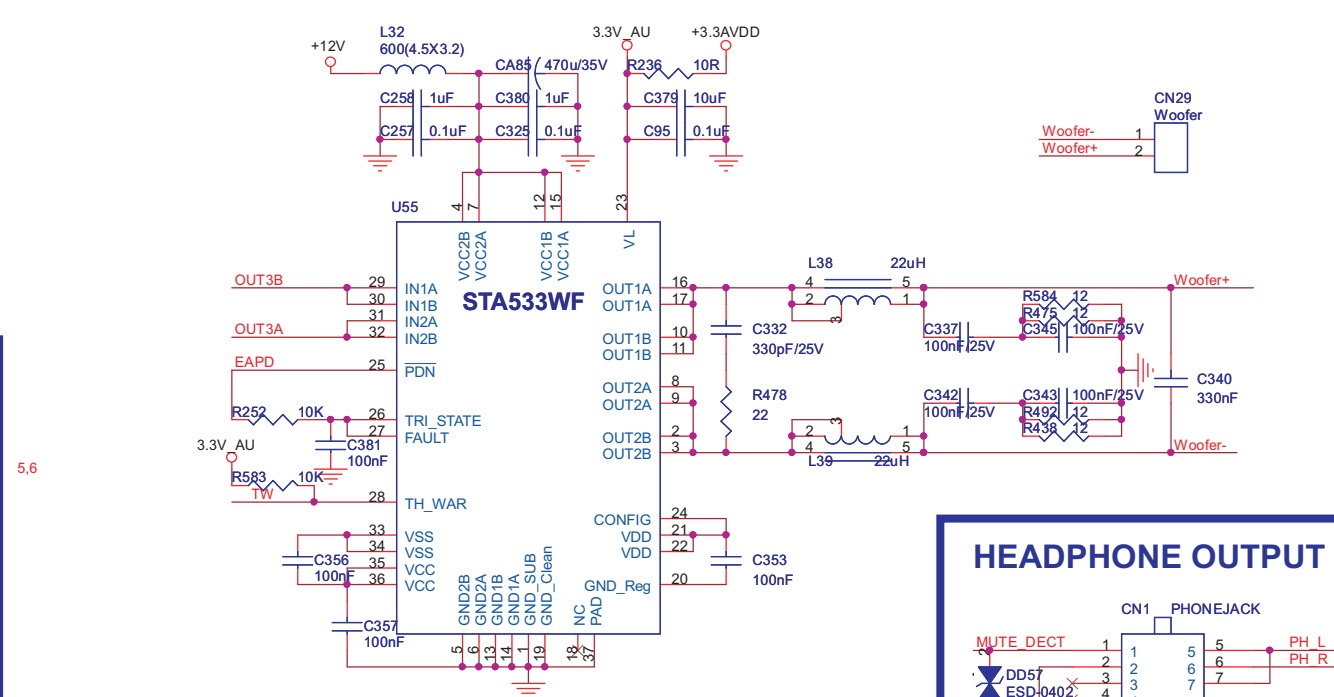
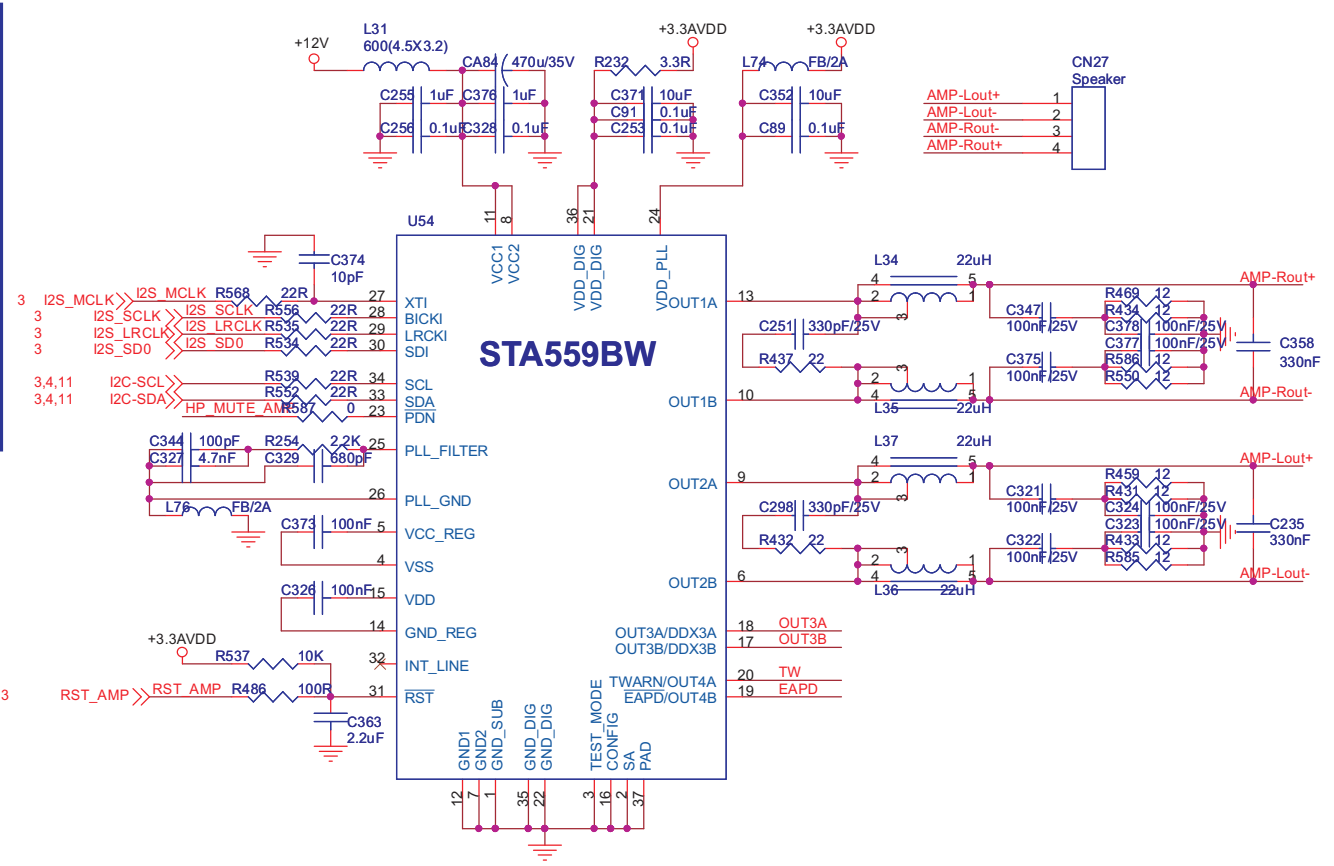
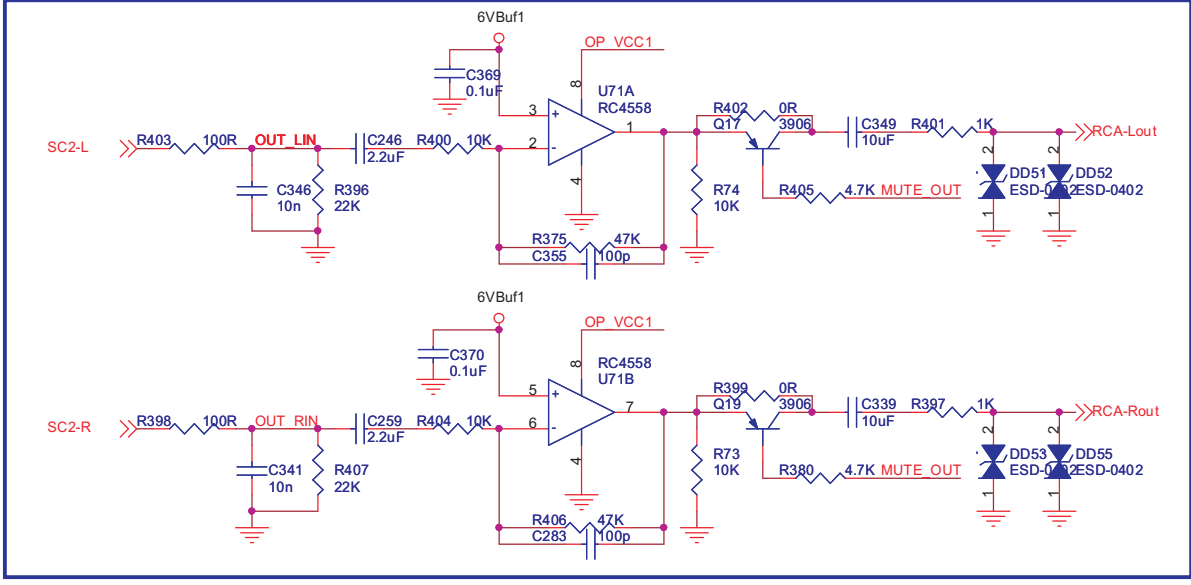
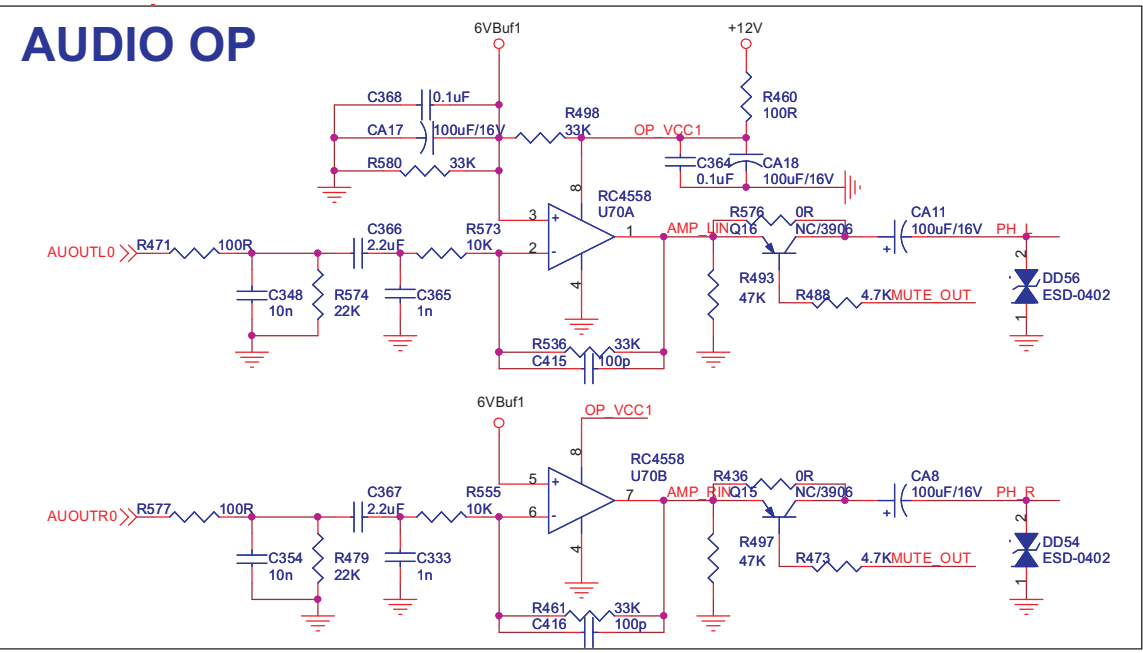
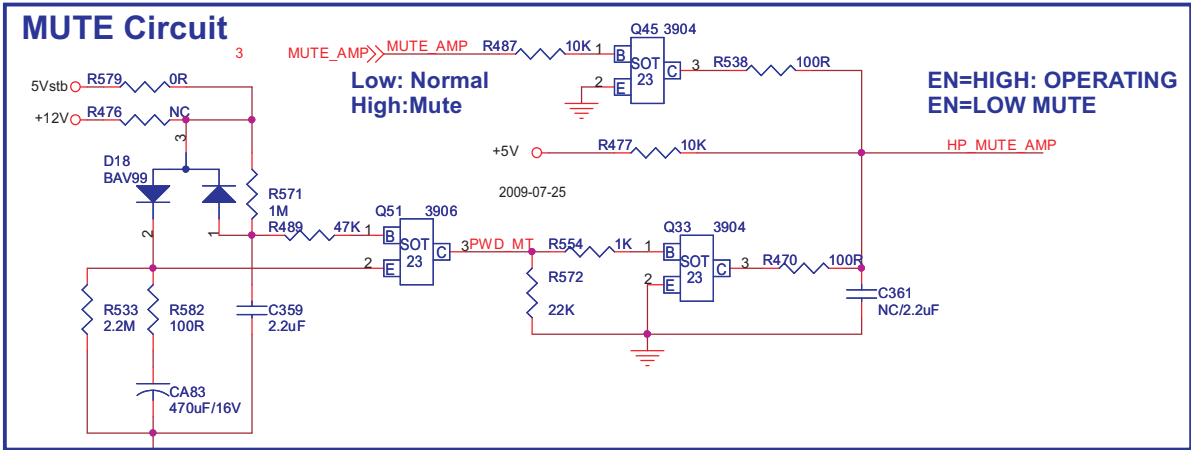


Ursa DDR2 +1.8V POWER



01	21/09/10		Liberação inicial	
Revisão	Data	Documento	Descrição	
Formato A3		Elaborado por: Éber Silva	Revisado por: Eduardo Macedo	Aprovado por: Thomas Wang
Escala S/E	Dimensão mm	Tol.não especificada	Página 2/12	Código matriz
PCI principal HBTv-55D02FD				Código sistema

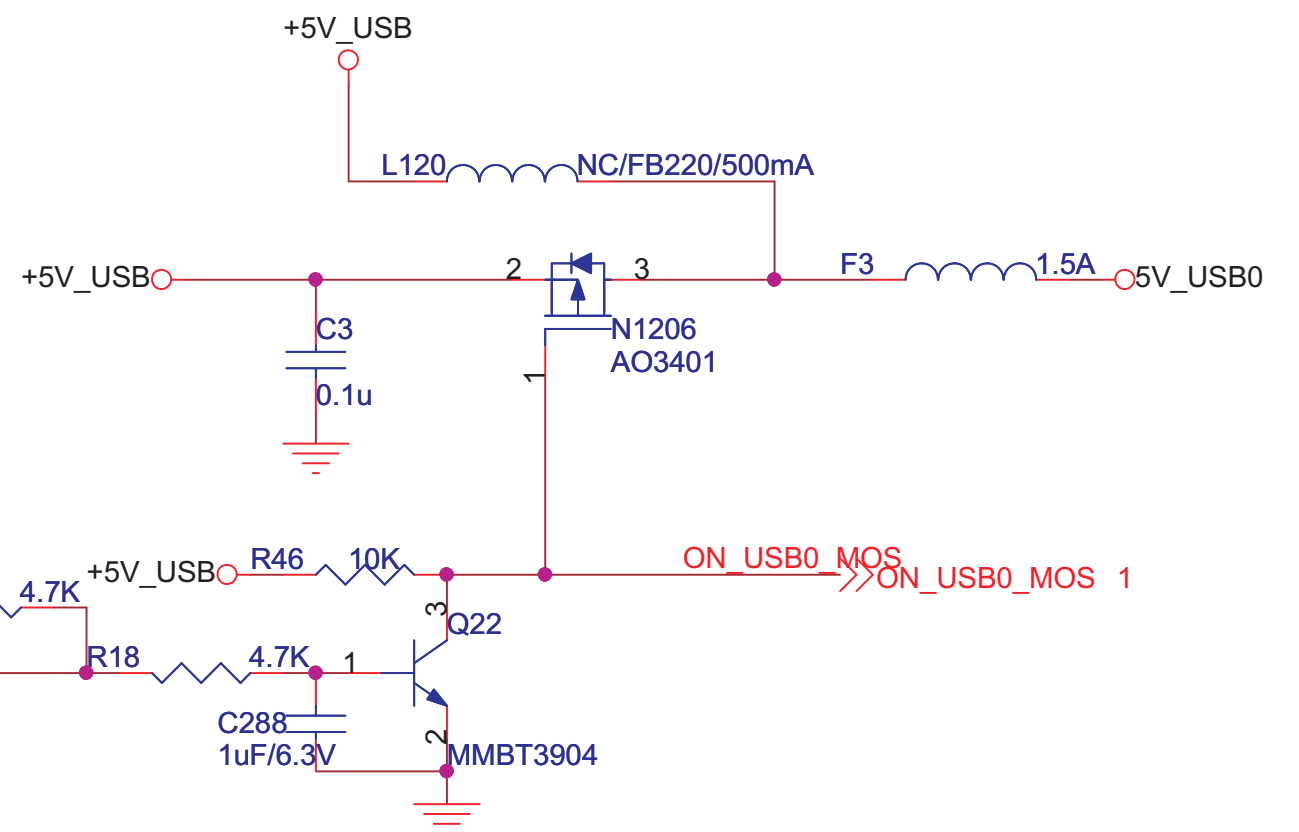
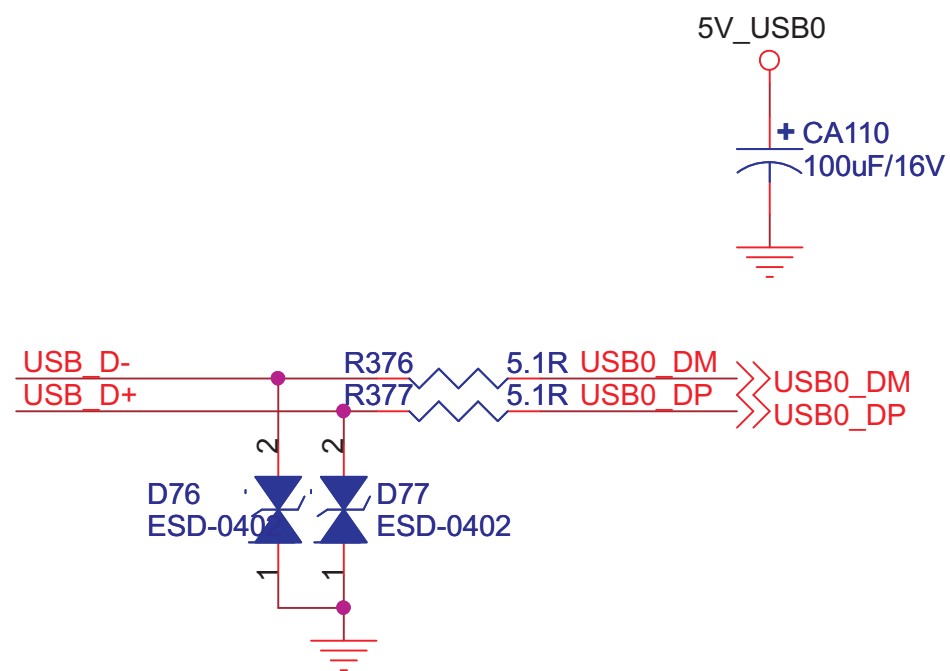
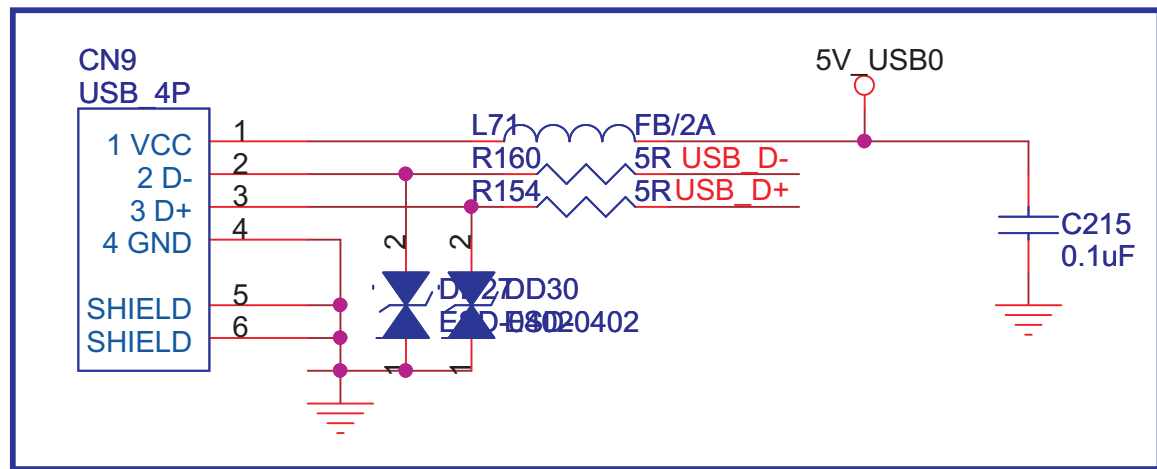


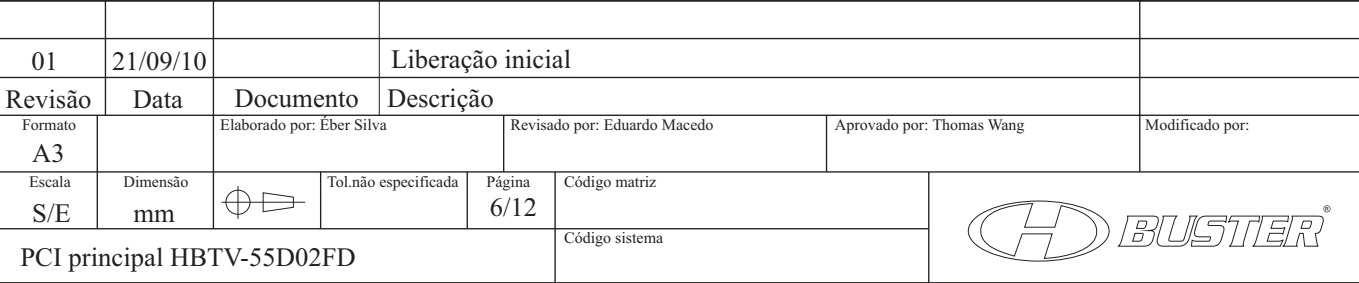


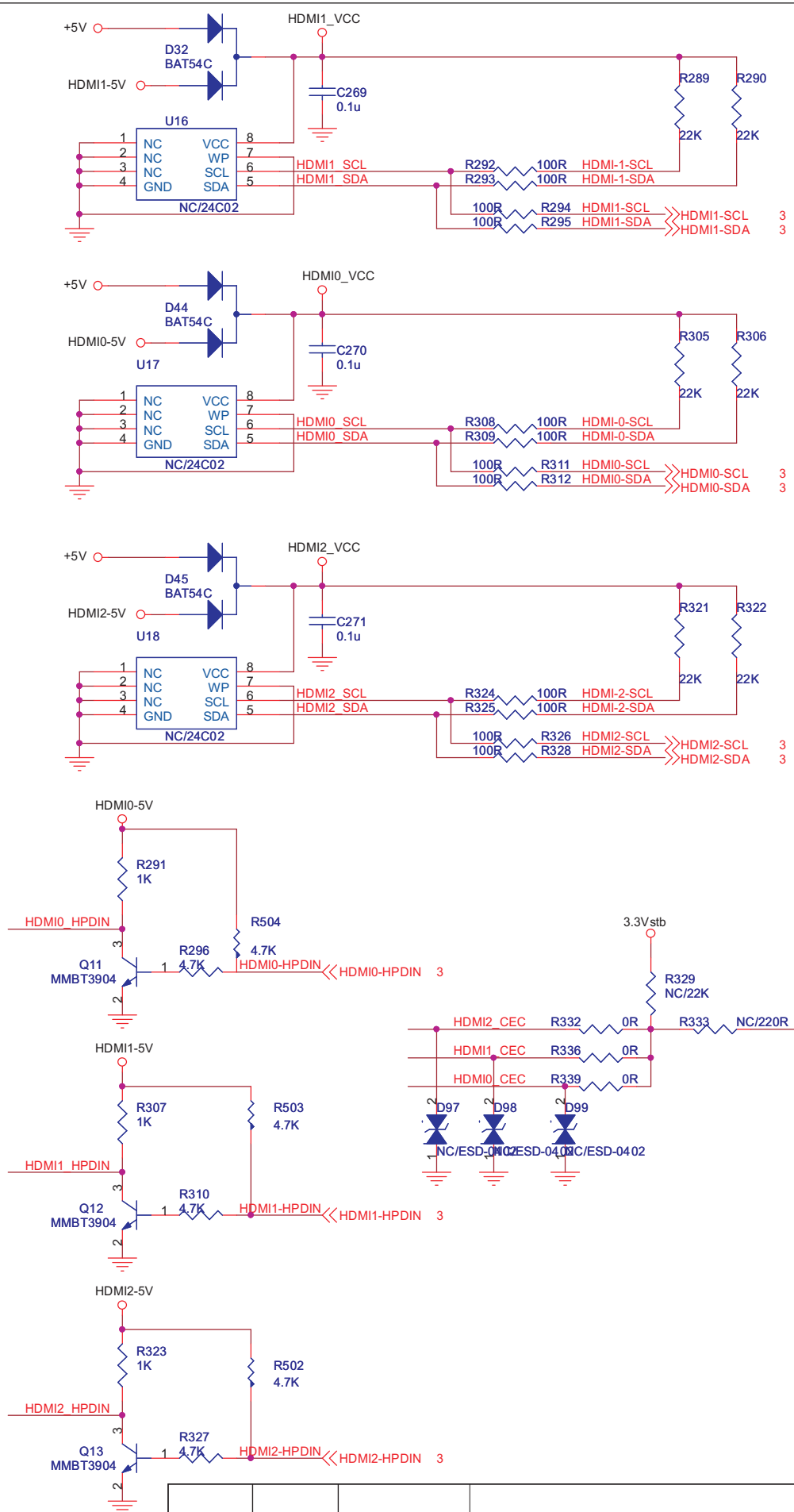
01	21/09/10		Liberação inicial	
Revisão	Data	Documento	Descrição	
Formato A3		Elaborado por: Éber Silva	Revisado por: Eduardo Macedo	Aprovado por: Thomas Wang
Escala	Dimensão	Tol.não especificada	Página 4/12	Código matriz
S/E	mm			Código sistema
PCI principal HBTV-55D02FD				



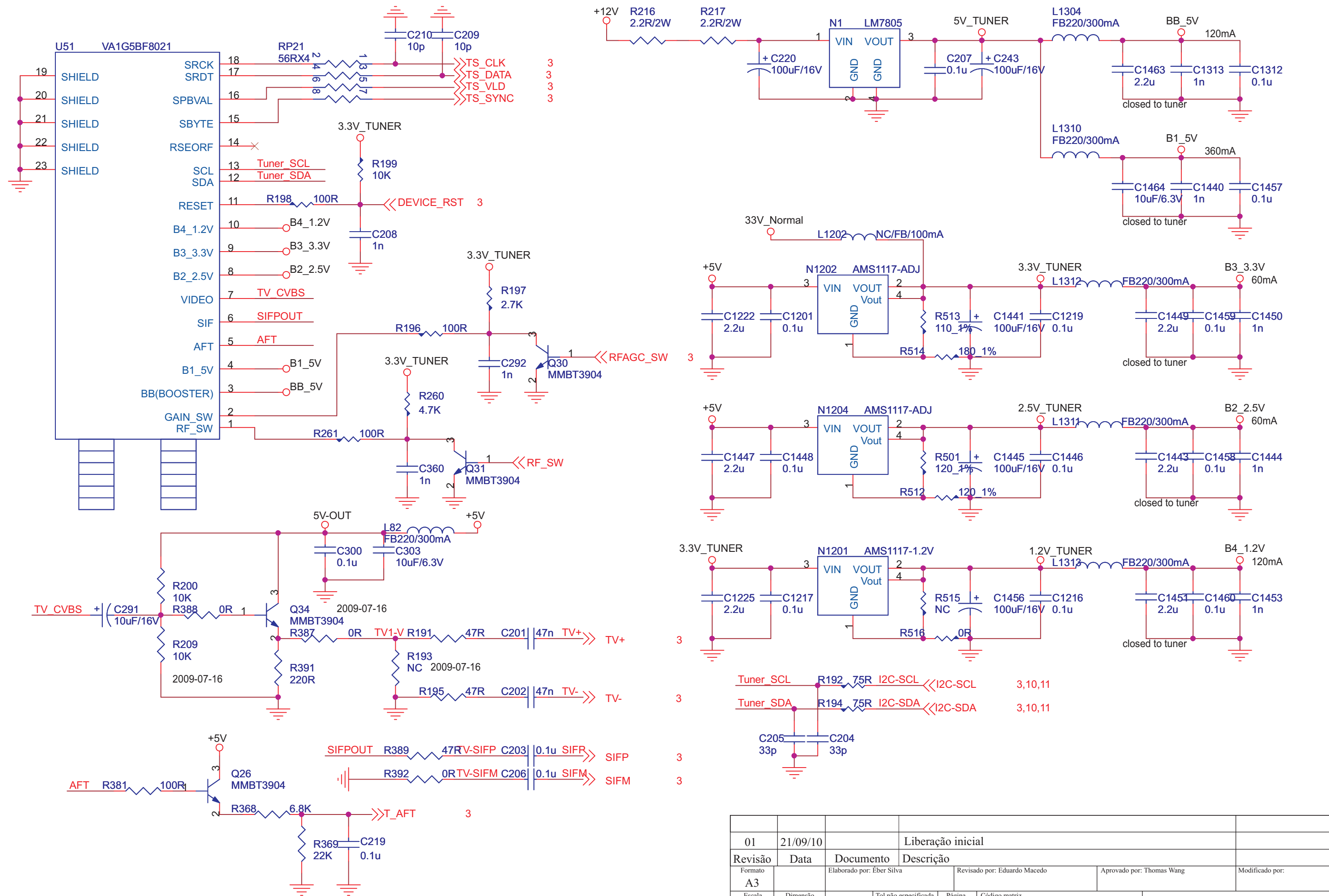
USB

[illegible]



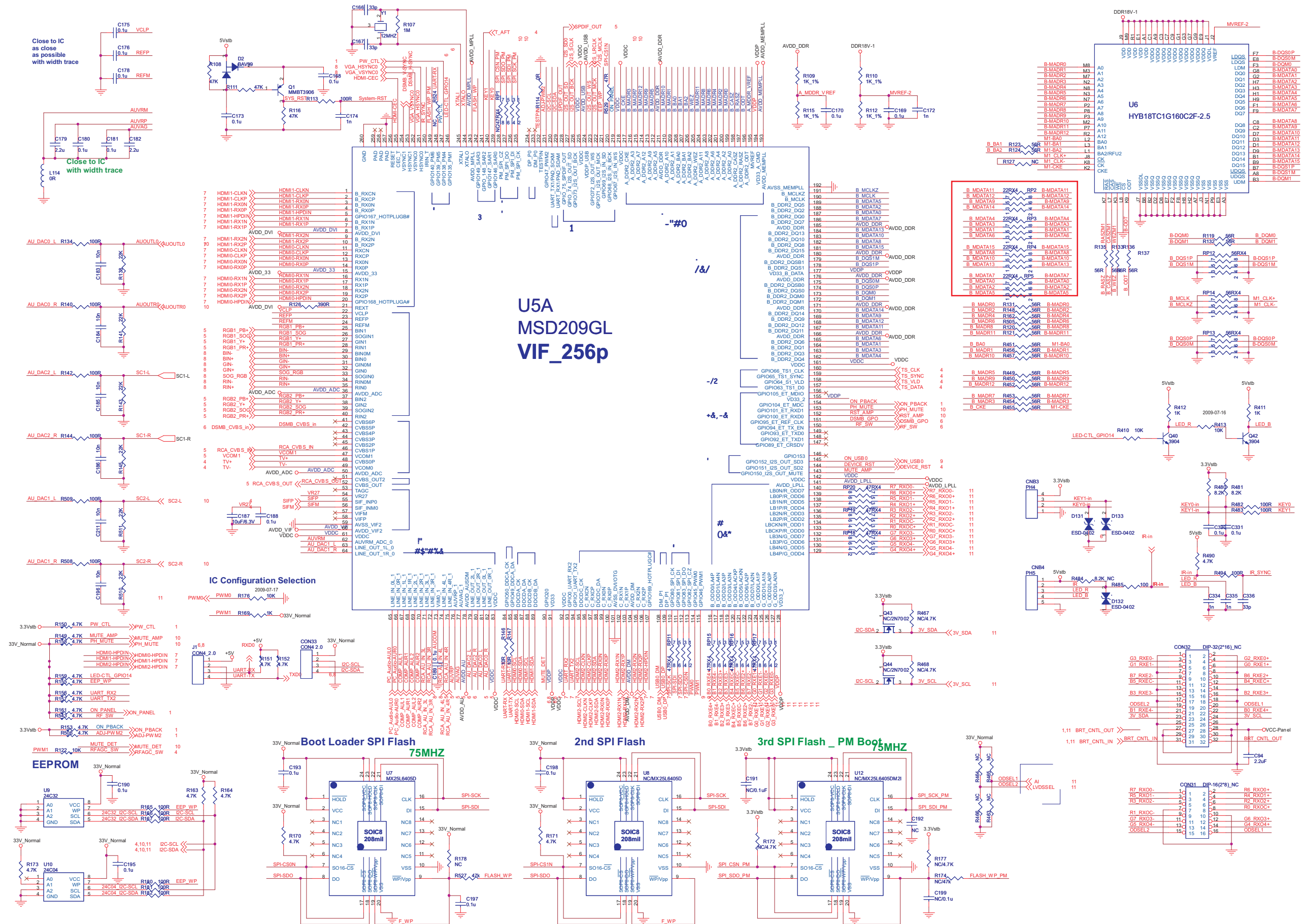


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Revisão	Data	Documento	Descrição					
Formato A3		Elaborado por: Eber Silva		Revisado por: Eduardo Macedo		Aprovado por: Thomas Wang		Modificado por:
Escala S/E	Dimensão mm		Tol.não especificada	Página 7/12	Código matriz			
PCI principal HBTV-55D02FD					Código sistema			



01	21/09/10		Liberação inicial	
Revisão	Data	Documento	Descrição	
Formato A3		Elaborado por: Éber Silva	Revisado por: Eduardo Macedo	Aprovado por: Thomas Wang
Escala S/E	Dimensão mm	Tol.não especificada	Página 8/12	Código matriz
PCI principal HBTv-55D02FD				Código sistema

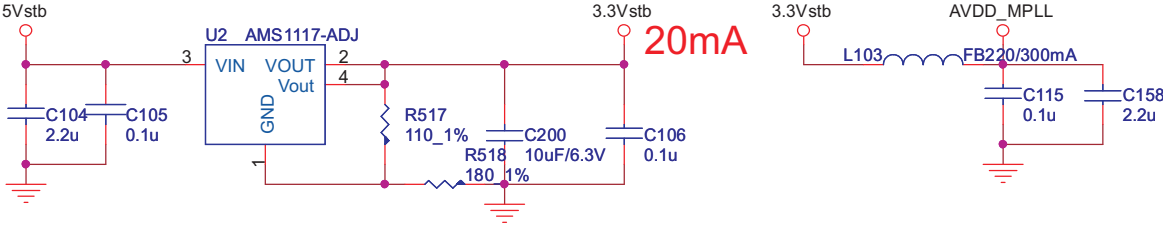
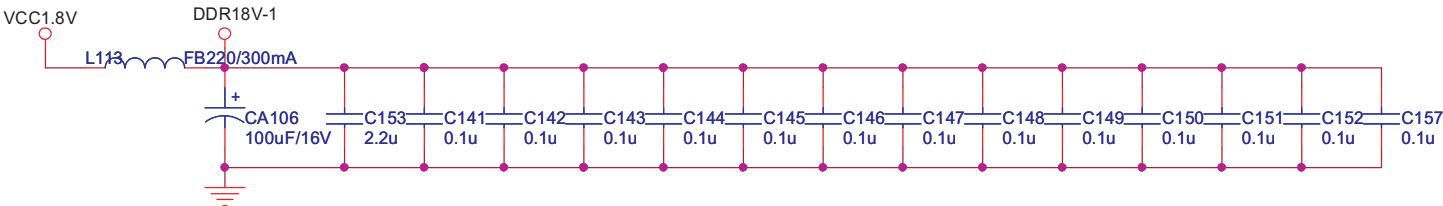
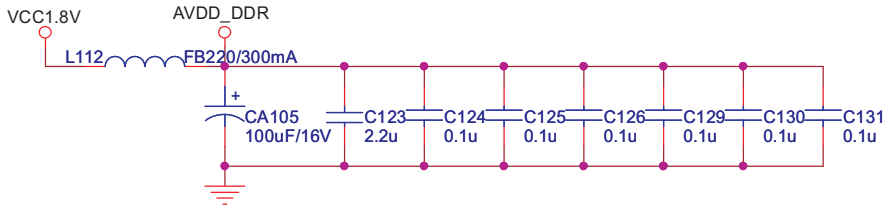
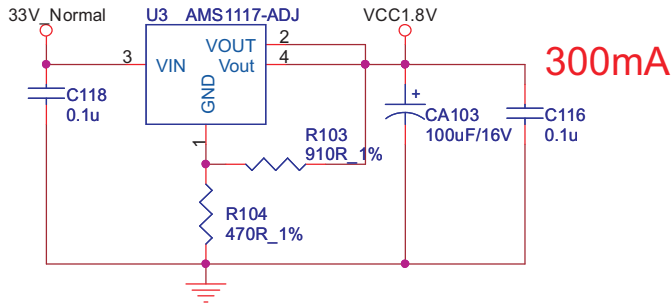
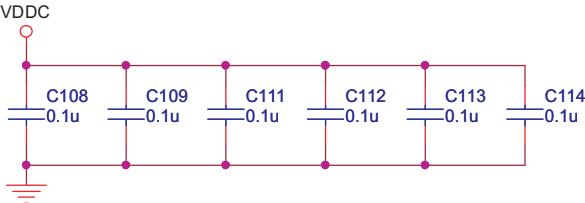
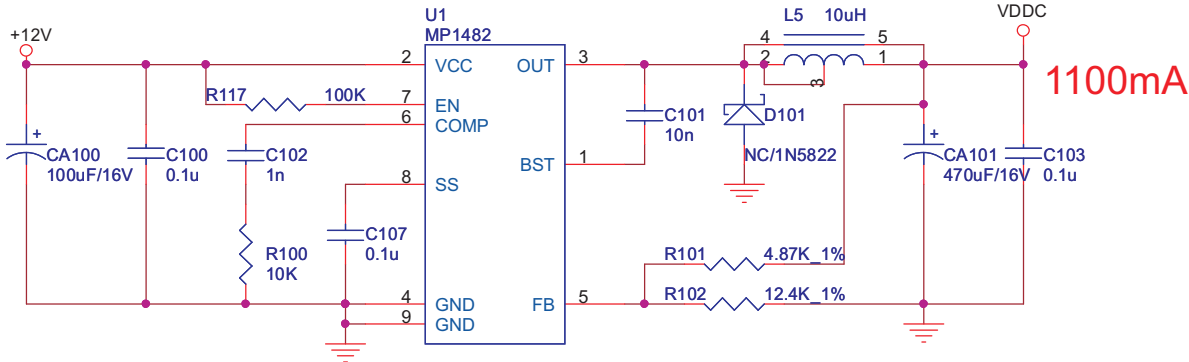




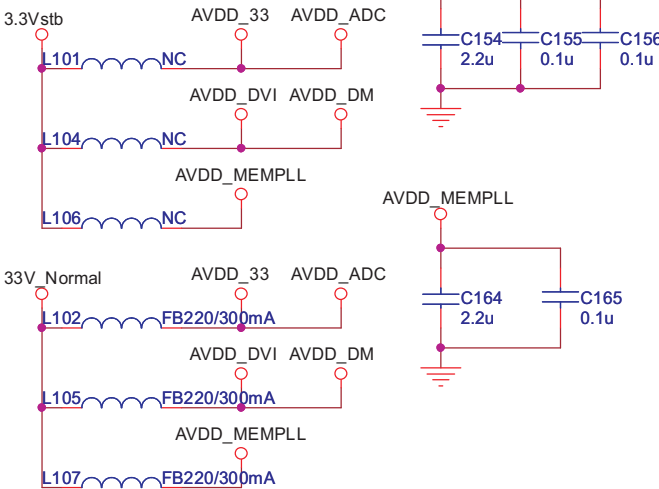
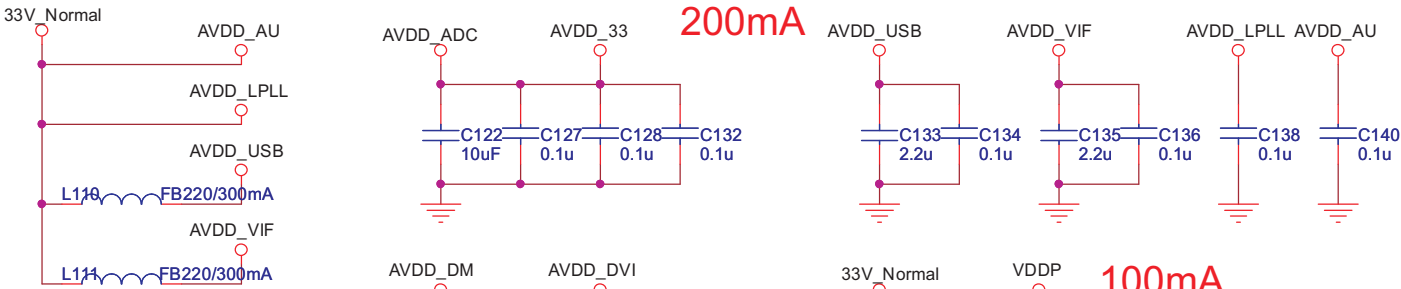
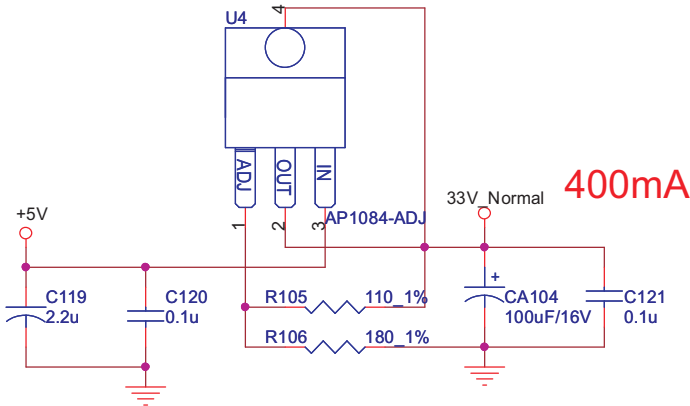
01	21/09/10		Liberação inicial				
Revisão	Data	Documento	Descrição				
Formato A3		Elaborado por: Éber Silva		Revisado por: Eduardo Macedo		Aprovado por: Thomas Wang	Modificado por:
Escala S/E	Dimensão mm		Tol.não especificada	Página 9/12	Código matriz		
PCI principal HBTV-55D02FD					Código sistema		



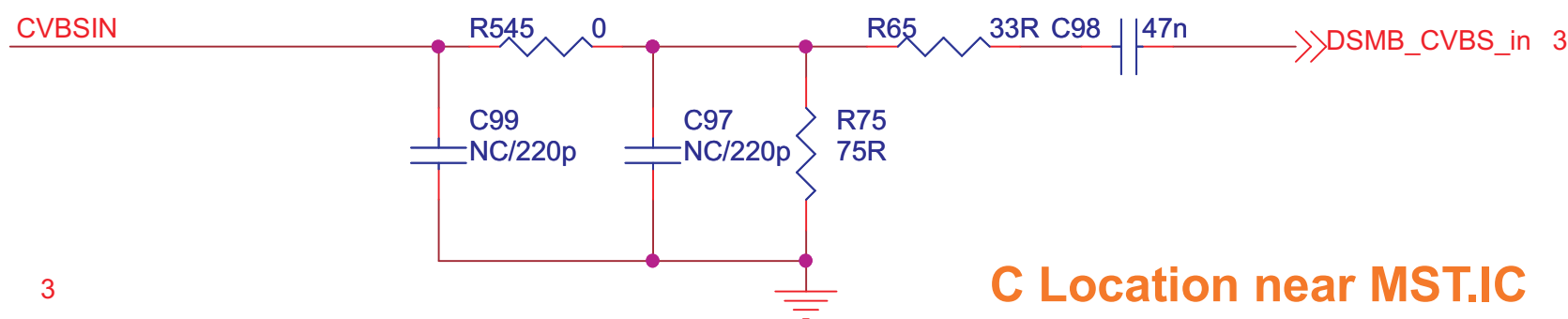
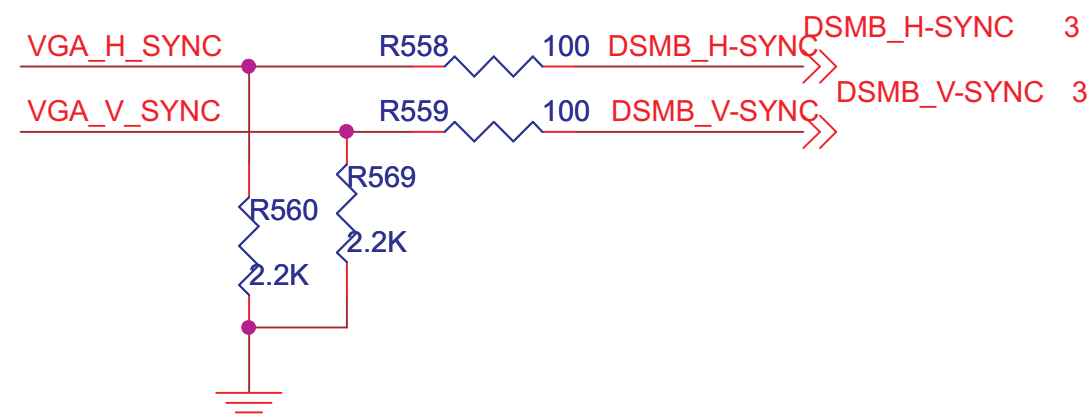
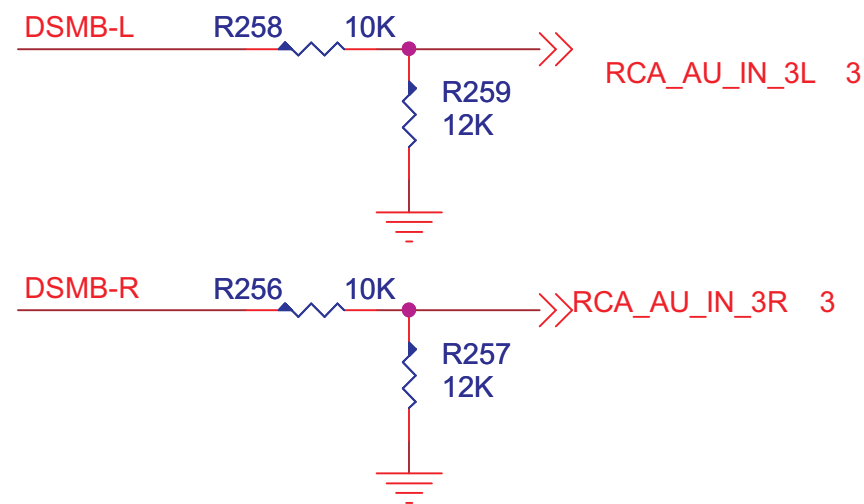
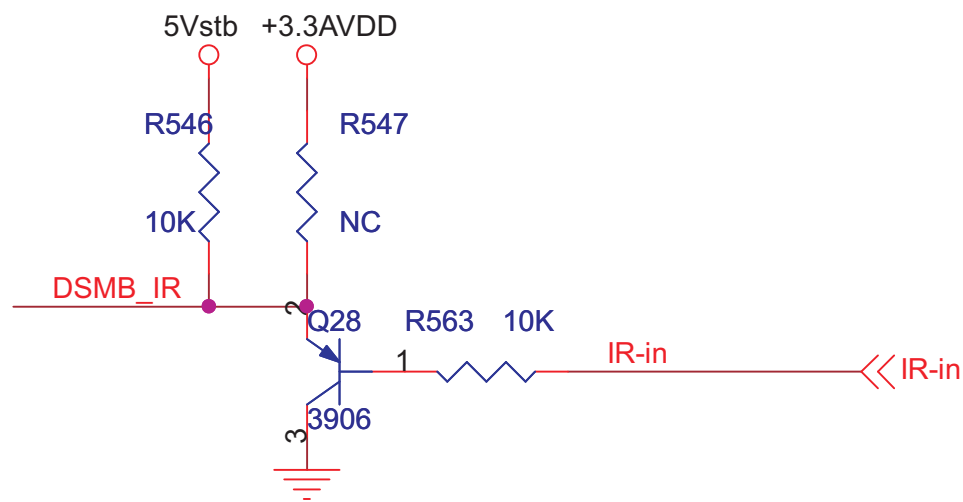
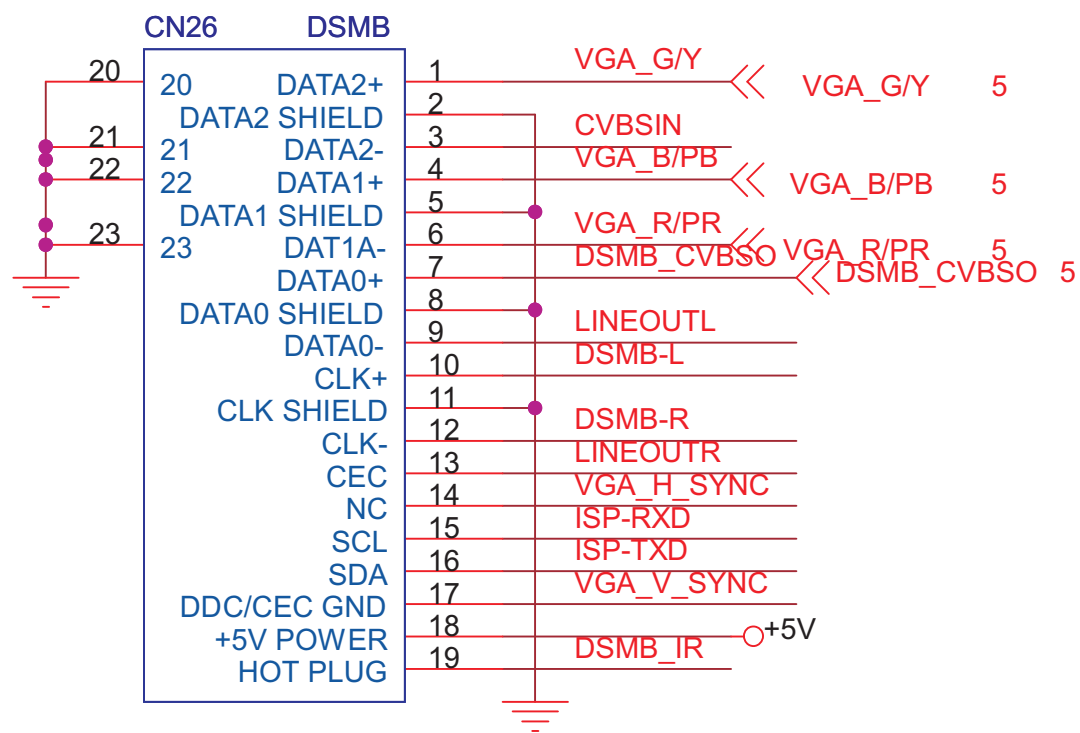
3.3V Power_Standby only for AVDD_MPLL and IR SAR,CEC.GPIO.RST



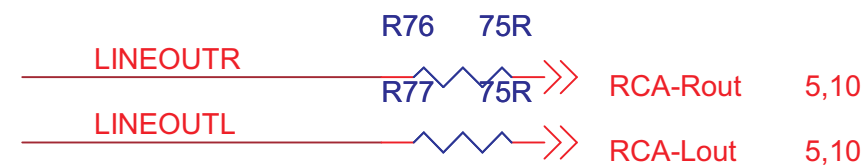
3.3V Power_Normal



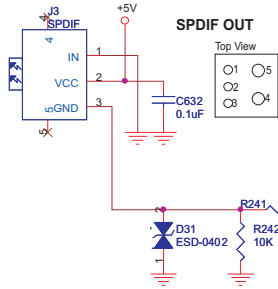
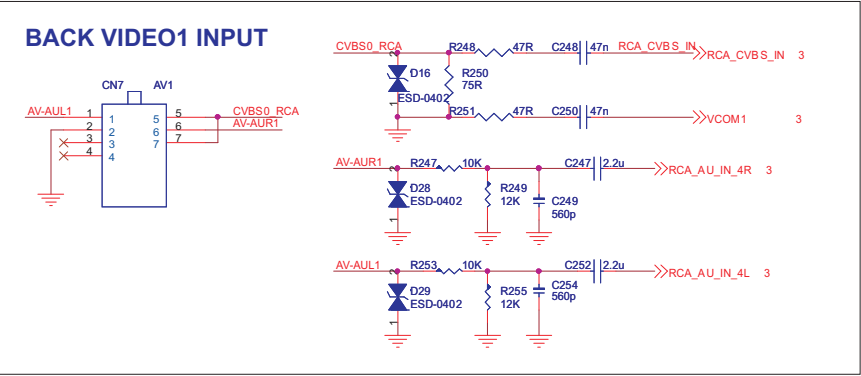
01	21/09/10		Liberação inicial	
Revisão	Data	Documento	Descrição	
Formato A3		Elaborado por: Éber Silva	Revisado por: Eduardo Macedo	Aprovado por: Thomas Wang
Escala S/E	Dimensão mm	Tol.não especificada	Página 10/12	Código matriz
PCI principal HBTV-55D02FD				Código sistema

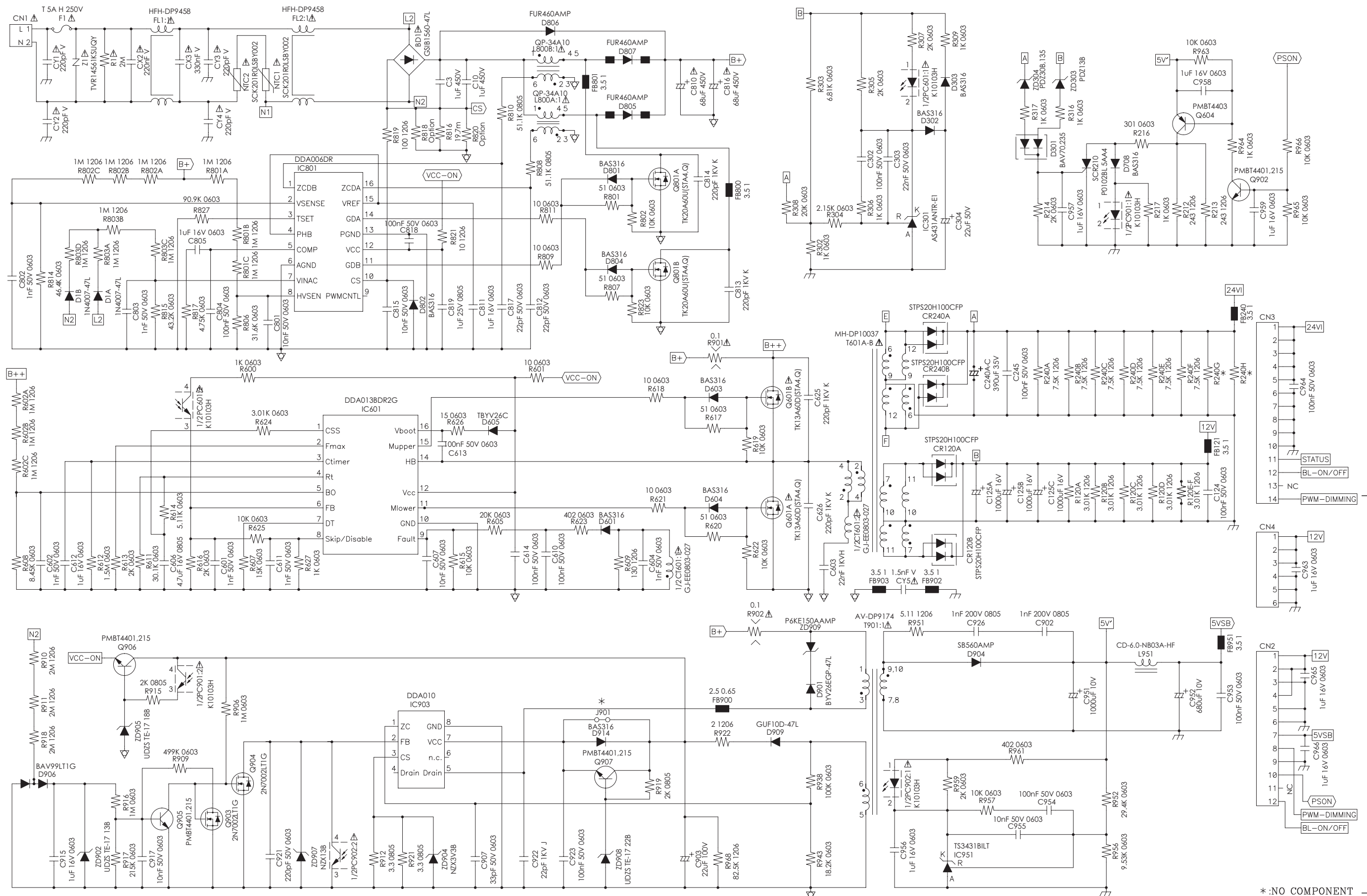


C Location near MST.IC



01	21/09/10		Liberação inicial	
Revisão	Data	Documento	Descrição	
Formato A3		Elaborado por: Éber Silva	Revisado por: Eduardo Macedo	Aprovado por: Thomas Wang
Escala S/E	Dimensão mm	Tol.não especificada	Página 11/12	Código matriz
PCI principal HBTV-55D02FD				Código sistema





*:NO COMPONENT -

01	03/12/10		Liberação inicial		
Revisão	Data	Documento	Descrição		
Formato A3		Elaborado por: Éber Silva	Revisado por: Eduardo Macedo	Aprovado por: Thomas Wang	Modificado por:
Escala S/E	Dimensão mm	Tol.não especificada	Página 1/1	Código matriz	
Fonte HBTv-55D02FD				Código sistema	



Chapter 7. Service Mode

7-1. Service Mode (Modo de serviço)

7-1-1.Como acessar o menu de serviços com o controle remoto do usuário:

digite no controle remoto: MENU 8 8 9 3

A tela do TV aparecerá as informações como na figura abaixo.

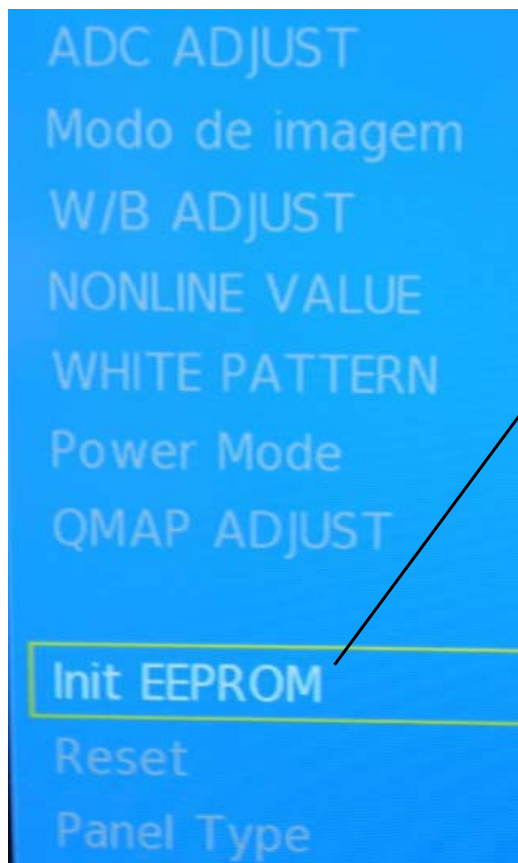
Na última linha do menu de serviços, aparecerá a versão da placa e o modelo do painel de LCD, como POR EXEMPLO: "L_MSD209GL_PANEL_MERGE_BRA_.....".

7-1-2.Como sair do menu de serviços:

Simplesmente pressione a tecla EXIT no controle remoto do usuário ou desligue o equipamento.

7-2. Measurements and Adjustments (medições e ajustes):

NÃO HÁ AJUSTES A SEREM REALIZADOS NESSE MODELO. RECOMENDA-SE NÃO ALTERAR NENHUM VALOR DE FÁBRICA!



ATENÇÃO!!!

Ao realizar uma atualização de software, troca da memória EEPROM ou o aparelho se mostrar instável, realize o procedimento abaixo.

Pressione os botões UP/DOWN e selecione "Init EEPROM", então pressione o botão ">". Demorará alguns segundos para a execução.

NOTA : Após o "reset", desligue e religue o aparelho.

Chapter 8. Firmware Update (Atualização de programa):

8-1. Initial Care (Cuidados Iniciais):

Este procedimento a seguir somente deve ser executado quando o equipamento apresentar anormalidade em sua operação, ou quando houver um comunicado oficial para realizar tal procedimento. Não faça a atualização se o equipamento estiver funcionando corretamente. Leia atentamente o procedimento todo e execute a tarefa conforme descrito a seguir. Em caso de dúvidas, solicite sempre o auxílio do suporte técnico da H-Buster.



NUNCA FAÇA ESSE PROCEDIMENTO SE A REDE ELÉTRICA ESTIVER INSTÁVEL, SOB RISCO DE DANO IRREVERSÍVEL À MEMÓRIA OU MESMO A PLACA PRINCIPAL. RECOMENDAMOS O USO DE NO-BREAK PARA A SEGURANÇA DO EQUIPAMENTO.

8-2. Initial Procedures (Procedimentos Iniciais):

8-2-1. Needed tools (Ferramentas necessárias):

- Um pen-drive vazio e formatado (FAT32) - mínimo 512MB;
- Controle remoto do equipamento;
- Versão mais recente baixada do site de serviços.

Para obter a versão mais recente, entre no site de serviços da H-Buster e faça o download conforme o modelo do equipamento e do painel de LCD (se houver). Em caso de dúvidas, entre em contato com o suporte técnico.

8-2-2. How to identify the Panel Type (Como identificar o modelo de painel de LCD):

8-2-2-1. Service Mode Menu (menu do modo de serviço):



Fig. 8.1 - Identificação do painel de LCD no menu de serviços

OBS.: O EXEMPLO ACIMA É MERAMENTE ILUSTRATIVO, NÃO CORRESPONDENDO AO TIPO DE PAINEL DO MODELO DO EQUIPAMENTO.

8-2-2-2. Rear side of LCD Panel (lado traseiro do painel de LCD):

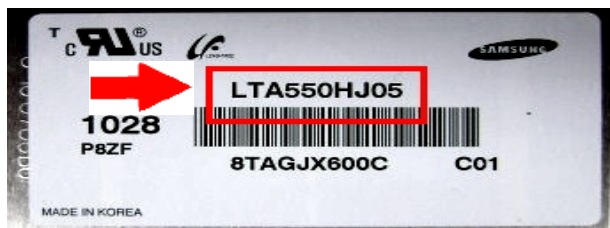
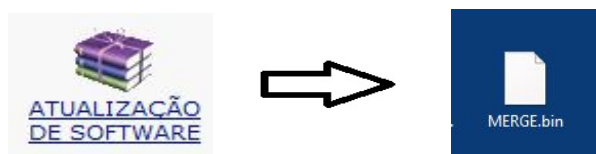


Fig. 8.2 - Identificação do painel de LCD pela etiqueta colada no verso (parte interna).

8-2-3. Copying the firmware to USB Memory Key (copiando o programa no pen-drive):

O arquivo que está no site de serviços está “zipado (compactado).” Para descompactá-lo, é necessário ter instalado em seu computador um programa descompactador (ex.: Winzip, WinRAR, etc.) Salve no desktop e descompacte-o no PC. Se o programa descompactador criar uma pasta, abra a pasta e copie para o pen-drive o arquivo que está dentro da pasta (NÃO COPIE A PASTA TODA).

O nome do arquivo a ser copiado para o pen-drive NÃO DEVE SER ALTERADO, CASO CONTRÁRIO A TV NÃO IRÁ RECONHECER O ARQUIVO!!

**8-3. Updating the firmware (Atualizando o programa):**

Siga os procedimentos abaixo atentamente:

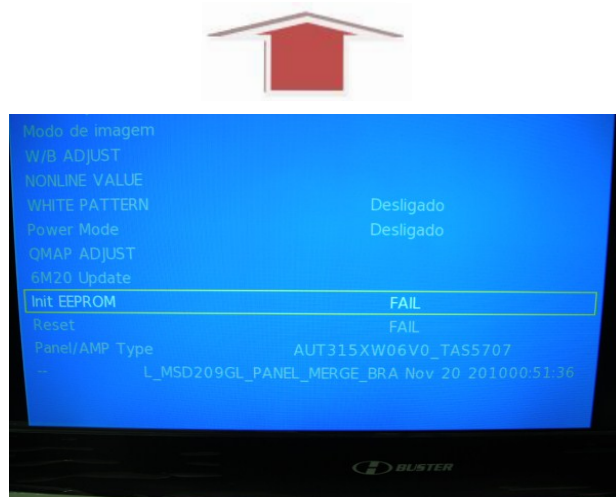
- 1) Com o TV funcionando, conecte o pen-drive com o programa gravado, na porta USB;
- 2) Aperte a tecla MENU do controle remoto e vá até a opção CANAL com as teclas de navegação e aperte OK;
- 3) Dentro do menu CANAL, desça até a página seguinte onde aparecerá "Atualizar Software" e aperte OK;
- 4) Aparecerá na tela a pergunta de confirmação, confirme e aperte OK;
- 5) Aguarde até o final da atualização, onde o equipamento desligará e religará sozinho;
- 6) Entre no menu de serviços e faça a reinicialização da memória com o comando INIT EEPROM (consulte o capítulo 7 para maiores explicações).

8-4. Firmware Update Diagrams

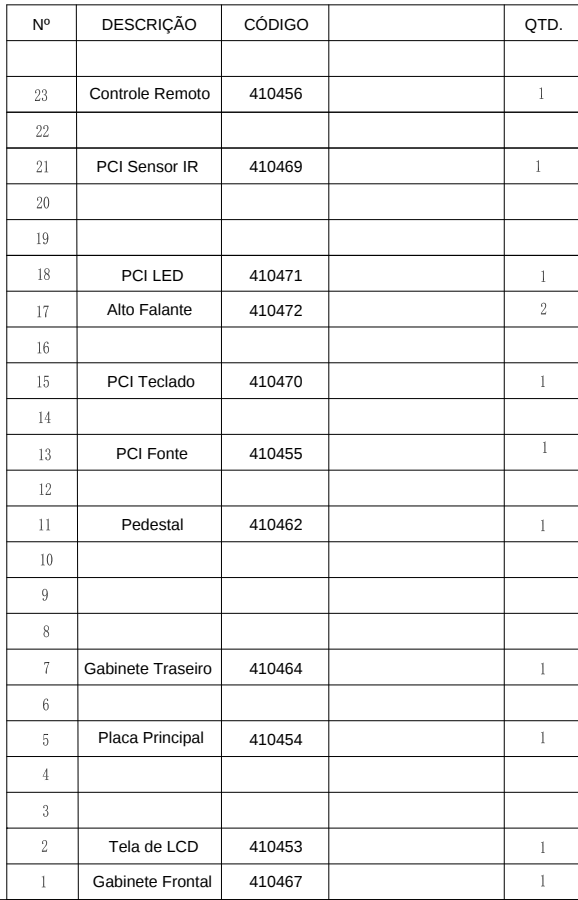
(Diagramas da atualização de programa):



Confira o funcionamento completo do TV (sinal digital, entradas HDMI, Video Componente, AV, etc.)



Chapter 9. Exploded View and Parts List (Vista Explodida e Lista de Peças)



BUSTER®

LISTA DE PEÇAS HBTv-55D02FD

Código	Descrição
410467	PAINEL FRONTAL HBTv-55D02FD
410464	GABINETE TRASEIRO HBTv-55D02FD
410470	PCI TECLADO HBTv-55D02FD
410469	PCI SENSOR IR HBTv-55D02FD
410471	PCI LED HBTv-55D02FD
410472	ALTO FALANTE HBTv-55D02FD
410473	CONJUNTO DE CALÇOS HBTv-55D02FD
410475	EMBALAGEM HBTv-55D02FD
410462	PEDESTAL HBTv-55D02FD
410476	CABO DE FORÇA HBTv-55D02FD
410453 (***)	TELA CRISTAL LIQUIDO HBTv-55D02FD
410454 (***)	PLACA PRINCIPAL HBTv-55D02FD
410455 (***)	PCI FONTE HBTv-55D02FD
410456	CONTROLE REMOTO HBTv-55D02FD
410458	CABO LVDS 40 VIAS HBTv-55D02FD
410457	CABO LVDS 34 VIAS HBTv-55D02FD
410477	CABO 2 VIAS/AUDIO HBTv-55D02FD
410478	CABO 3 VIAS/AV HBTv-55D02FD
410479	CABO 3 VIAS/YPbPr
410482	MANUAL HBTv-55D02FD

OBS.: OS ITENS MARCADOS COMO (***) SOMENTE PODEM SER SOLICITADOS MEDIANTE CONTATO COM O SUPORTE TÉCNICO