

Service  
Service  
**Service**

## Part 2:

26MF337B/27  
26MD357B/37  
32MF337B/27  
32MD357B/37  
37MF337B/37  
37PFL5332D/37  
42MF337B/37



H\_16643\_001.eps  
040507

# Service Manual

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## 1. Technical Specifications, 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

Panel	:LPL
Active Area	:697.685mm (H) X 392.256mm (V) (31.51" diagonal)
Outline Dimension	:760.0mm (H) X 450.0mm (V) X 48.0mm (D)
Pixel Pitch	:0.17025mm(H) X 0.51075mm(V)
Pixel Format	:1366 X 768 (WXGA), RGB strip arrangement
Color Depth	:8-bit, 16.7M colors
Luminance	:500 cd/m <sup>2</sup> (Typ)
Backlight	:18 EEFL
Response Time	:10msec.
Viewing Angle	:170/170 (L/R,U/D) (CR > 10)
Contrast Ratio	:800:1
Tuning system	:PLL
CCFL MTBF	:50,000 hrs (min.)
Supported video formats	:720 x 480 @60i 720 x 240 @60p 640 x 480 @60p 720 x 480 @60p 800 x 600 @60p 1280 x 720 @60p 1024 x 768 @60p 1920 x 1080 @60i 1920 x 1080 @30P 1920 x 1080 @60P

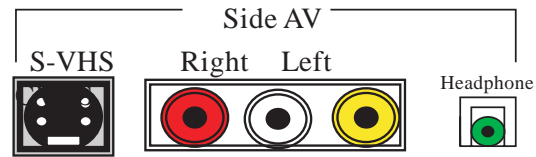
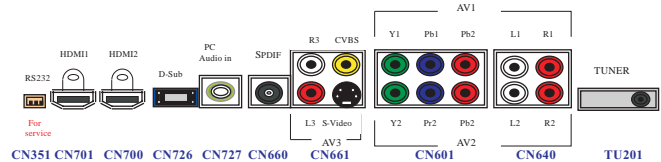
#### 1.1.2 Sound

Sound systems	: Mono / Stereo / Virtual Surround
Maximum power	: 2 x 5W

#### 1.1.3 Miscellaneous

Power supply	
AC-input	: 90V ~ 264VAC, 50/60±3Hz
Normal Operation Power Consumption	: < 150W (LC320W01-SL06)
Standby power	: < 1W (110V/60Hz only)
Power cord length	: 1.8M
Power cord type	: 3 lead with earth plug, plugable (US type)
Power indicator	: LED (On: Green, Standby: No light, VGA mode Standby: Red)
Ambient conditions	
Temperature	: 0 to 40°C
Humidity	: 10 to 90% (non --condensing)
Power consumption	
Normal Operation	: < 150W (LC320W01-SL06)
Standby power	: < 1W (110V/60Hz only)

AV IN3: Video3 (CVBS, RCA jack) and S-Video share with same audio R/L (RCA jack).  
AV IN1: YPbPr component video1 (RCA jack) with audio R/L (RCA jack).  
AV IN2: YPbPr component video2 (RCA jack) with audio R/L (RCA jack).  
Side AV IN: Side Video (CVBS, RCA jack), Side S-Video and HDMI (DVI) share with same audio R/L (RCA jack).  
Headphone OUT : Audio R/L out (mini-jack)  
SPDIF OUT : RCA jack  
PC VGA: D-SUB 15 pins  
PC Audio: Mini-jack



#### 1.2.2. Input signal

TV Signal type:

RF Signal : Aerial input / 10mV(80dBuV)  
Video signal : Video( RCA CVBS input) / 1Vpp (300mV-sync, 700mV-video.)  
S video input / 1VppY-signal, 300mVpp C-signal  
COMP Video (YPbPr input)/ 1Vpp Y signal, 350mVpp Pb, Pr signal

HDMI : Digital interface with 4 channels TMDs signal

Audio signal : Audio (1) R/L for AV IN1 (Comp-video1).

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

Audio (2) R/L for AV IN2 (Comp-video2).

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

Audio (3) R/L for AV IN3 (Video3 and S-video).

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

Side Audio R/L for Side AV IN (Side Video and S-video).

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

PC Signal type:

Analog Video : 0.7 Vp-p linear, positive polarity

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

Audio signal : Mini-jack audio input,  
Level: - Nominal : 0.5 V rms.  
- Maximum : 1.5 V rms.  
- Impedance > 10 k ohm.

Signal source : Pattern generator format as attachment.

(table 1 to 11)

Reference generator: CHROMA 2200 or 2250

Headphone output :

Audio: R/L output -10mW at 32ohm.

3.5mm stereo jack with switch

Impedance is between 8 ohm and 600 ohm

SPDIF output:

Level 0.5V ~ 1V Square Wave

## 1.2 Connections

### 1.2.1 Signal connector

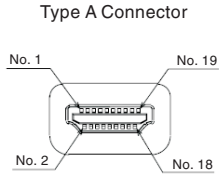
FL3-26W /32W /37W /42W /47W I/O function is located on TV module, including

Tuner: NAFTA.

HDMI IN1: HDMI input (TV digital interface support HDCP) with digital audio or with AV IN3 audio R/L.

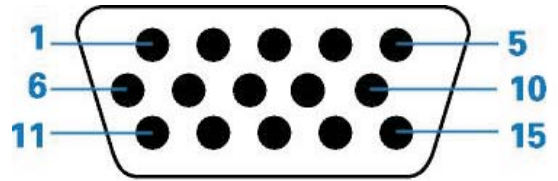
HDMI IN2: HDMI input (TV digital interface support HDCP) with digital audio or with AV IN3 audio R/L.

1.2.3 HDMI Pin assignment (Nafta only)



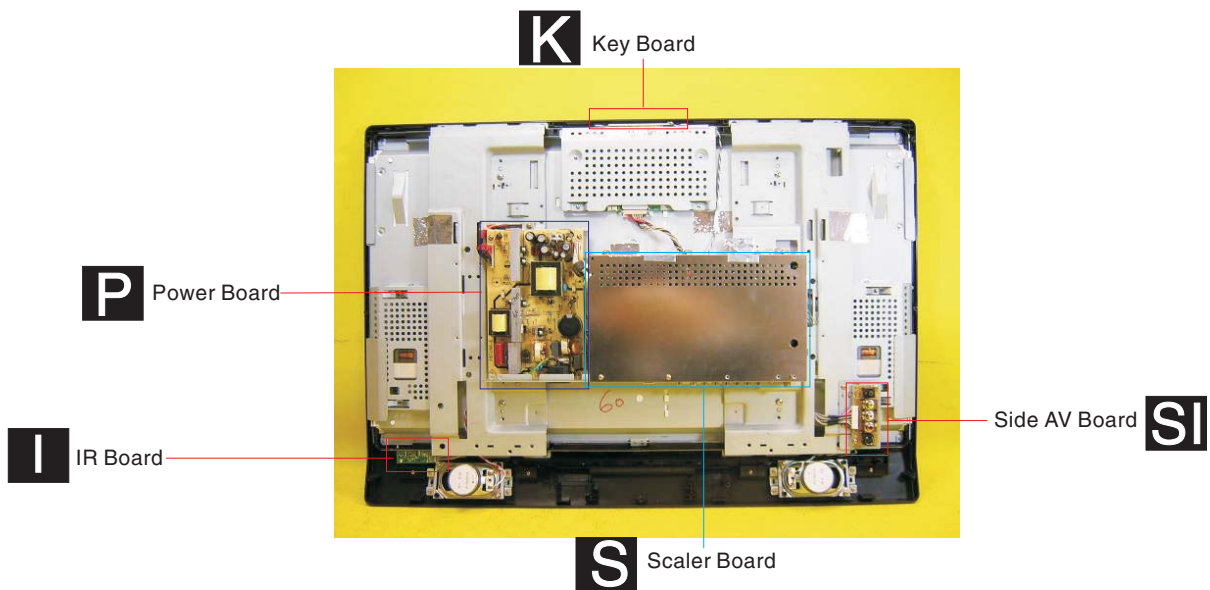
PIN No.	SIGNAL
1	TMDS Data2+
2	TMDS Data2 shield
3	TMDS Data2-
4	TMDS Data1+
5	TMDS Data1 shield
6	TMDS Data1-
7	TMDS Data0+
8	TMDS Data0 shield
9	TMDS Data0-
10	TMDS Clock+
11	TMDS Clock Shield
12	TMDS Clock-
13	CEC
14	Reserved (N.C. on device)
15	SCL
16	SDA
17	DDC/CEC Ground
18	+5V Power
19	Hot Plug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

1.2.4 VGA Pin assignment



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

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).



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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.

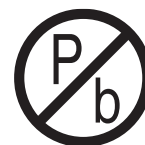


Figure 2-2 Lead-free logo

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

You can download this information from the following websites:

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

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

Magnavox/Philips Digital UI-TV/AV1/AV2/AV3/Side/HDMI				
OSD Layer 1	2	3	4	5
Picture	Smart Picture	Personal Rich Natural Soft Power Saver		
	Contrast	slider		
	Brightness	slider		
	Color	slider		
	Sharpness	slider		
	Color temperature	Normal Warm Cool		
	Tint	slider		
	Noise Reduction	slider		
	Dynamic Contrast	OFF Medium Maximum		
Picture format	Automatic Super zoom 4:3 Movie expand 14:9 Movie expand 16:9 16:9 subtitle Wide screen			
Sound	Smart sound	Personal Speech Movies	EQUALIZER EQUALIZER EQUALIZER	
	Sound mode	Mono Stereo Virtual Surround		
	Alternate audio	Main SAP		
	AVL	Off On		
Features	Closed captions	Off On On during mute		
	Caption service	CC-1 CC-2 CC-3 CC-4 T-1 T-2 T-3 T-4		
	Digital caption service	CS-1 CS-2 CS-3 CS-4 CS-5 CS-6		

### 3. Directions for Use

	Digital caption options	Reset to default	Reset to default		
		Size	Default Small Standard Large		
		Style	Default Monospaced serif Serif Monospaced sans serif Sans serif Casual Cursive Small caps		
		Text	Color	Default Black White Red Green Blue Yellow Magenta Cyan	
			Opacity	Default Solid Transparent Translucent Flashing	
		Background	Color	Default Black White Red Green Blue Yellow Magenta Cyan	
			Opacity	Default Solid Transparent Translucent Flashing	
		Preferred channels			
		Sleeptimer	slider		
		Parental Control (*)	Channel lock		
TV ratings lock					
Movie ratings lock					
	Region ratings lock				
	Clear Regions lock				
	Change Pin				
Installation	Language	English Francais Espanol			
	Autoprogram	AUTO Antenna Cable	Start now (Analog first then Digital)		
	Source	TV AV1 AV2 AV3 HDMI 1 HDMI 2 Side DVD PC			

## 3. Directions for Use

	HDMI Audio (**)	Auto HDMI Digital		
	Clock	Enter Time(Hrs,Mins) AM/PM		
	Weak channel Installation	(Current software Version)		
	Current Software Info			
	Reset AV settings	Start now		
EXIT	EXIT			

Magnavox/Philips Digital UI-PC				
1	2	3	4	5
Picture	Contrast	slider		
	Brightness	slider		
	Color temp	Normal Warm Cool		
	Picture format	Full screen 4:3		
Sound	Smart sound	Personal Speech Movie	Equalizer Equalizer Equalizer	
	Virtual surround	On Off		
Installation	Language	English Francais Espanol		
	Source	TV AV1 AV2 AV3 HDMI 1 HDMI 2 Side DVD PC		
	Picture Adjustment	Auto adjust	Yes	
			Store ?	Yes No
	Factory reset	Manual adjust	Phase Clock Horizontal Vertical	
			No Yes	
EXIT	Exit			



### 4. Mechanical Instructions

Index of this chapter:  
 4.1 Assy/Panel Removal  
 4.2 Set Re-assembly

#### 4.1 Assy/Panel Removal

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

Front View



Back View



Step 1. Remove Base  
 Unscrew four screws as Fig1



Fig 1

Step 2. Remove Back cover assy  
 Unscrew ten screws as fig 2



Fig 2

Step 3. Remove Vase plate and Bracket-base  
 Unscrew fourteen screws as fig 3

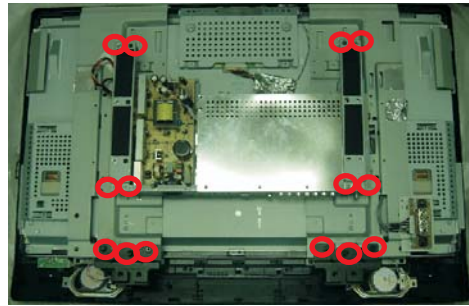


Fig 3

Step 4. Remove Shielding  
 Unscrew nine screws as fig 4 and unscrew nine screws as fig 5

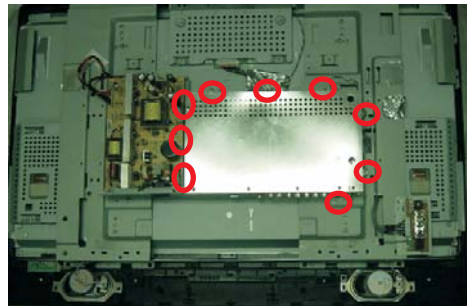


Fig 4



Fig 5

Step 5. Remove power board, scaler board, side AV board and IR board.  
 Unscrew seventeen screws and disconnect ten cables as fig 6

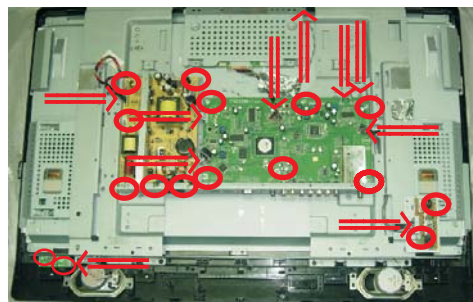


Fig 6

Step 6. Remove frame-PCB  
 Unscrew eight screws as fig 7

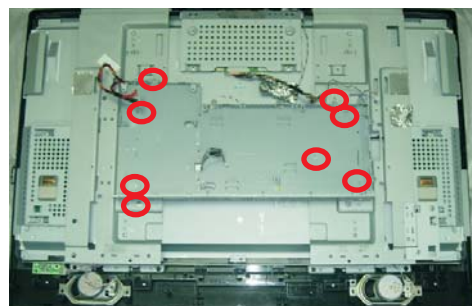


Fig 7

### 4. Mechanical Instructions

Step 7. Remove Metal frame  
Unscrew sixteen screws as fig 8

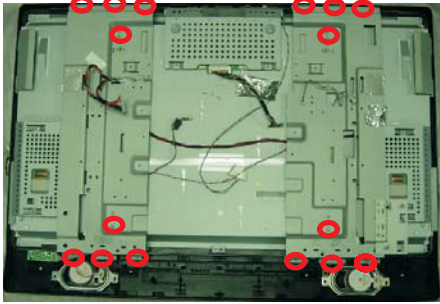


Fig 8

\*\*\*\*\*  
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).  
\*\*\*\*\*

Step 8 Remove AL foil  
Unscrew eight screws as fig 9

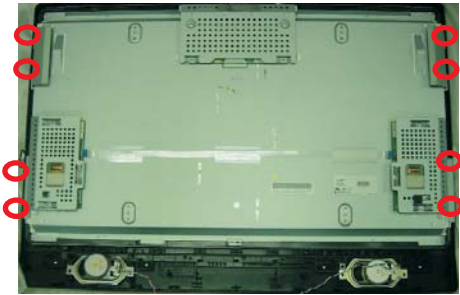


Fig 9



Fig 10



Fig 11

Service Position  
Insulation material

### 4.2 Set Re-assembly

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

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

## 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	32MF337B/27	Model Name
2: Production code	BZ3A0704790027	14 digit production-code(serial number)
3: SW-naming main-processor	FL3 32MF337BU_V2.00	SW Version(FL= family,32MF337B=Model, U=Nafta region V=Version,2=SW main version,00=SW sub version)
4: Code 1	00 00 00 00 00	Error codes in NVM/EEPROM (5 last logged errors)
5: Code 2	00 00 00 00 00	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

About error code,Please refer to the table below.

Error code	Event
0x01	DDR error
0x02	IIC bus error
0x03	Tuner error
0x04	Demod 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.

OSD behavior:

Before press number key change OSD item

Now remove previous function, press number key then press OK will change value

Item	Description	Range	method of operation	Status
<b>//Action Items</b>				
0	Exit Factory		press OK.	Pass
1	RESET_SPC	reset item SP_GAIN_BRI_XXX to SP_GAIN_CLR_XXX to default value	press OK.	Pass
2	RESET_CSM_CODE	Reset CSM ERROR Code to 0	press OK.	Pass
3	AUTO_COLOR	PC: any pattern has black and white YPbPr:SMPTEbar(color bar), any timing.	press OK. when autocolor, the OSD disappear, when finished. OSD appear.	Pass
<b>//Switch Items</b>				
4	VIRGIN Mode		On/Off	Pass
5	AGING MODE	turn<On> and no signal input	On/Off	Pass
6	GAMMA_TABLE	use gamma table or not	On/Off	
7	COLOR_ENHANCE		On/Off	Pass
8	SET_PIN		On/Off	Pass
9	ORT_MODE	if On, AC switch on/off turn on the TV	On/Off	Pass
<b>//ADC Gain &amp; Offset</b> (values different by VGA and YPbPr) AutoColor changes those items				
10	ADC_GAIN_R	0~255	Press Left and Right to change value	Pass
11	ADC_GAIN_G	0~255		Pass
12	ADC_GAIN_B	0~255		Pass
13	ADC_OFFSET_R	0~127		Pass
14	ADC_OFFSET_G	0~127		Pass
15	ADC_OFFSET_B	0~127		Pass
<b>//Color Temperature</b> (values different by AV,VGA,DTV,HDMI,YPbPr)				
16	CLR_TEMP_R	Back-End Scaler R G B Gain 0~255	Press Left and Right to change value	Pass
17	CLR_TEMP_G	0~255		Pass
18	CLR_TEMP_B	0~255		Pass
<b>//Smart Picture</b> (values different by smart picture)				
19	SP_MODE_3DNR	Except YPbPr 720P above timing	Press Left and Right to change value	Pass
20	SP_MODE_PWM	(when Dynamic contrast Off)	0~255	Pass
<b>//Smart Picture Default</b> (values different by AV,DTV,HDMI,YPbPr) Front-End, because each source has the same smart picture setting, for different between each source				
21	SP_GAIN_BRI_DTV	Brightness 0~255	Press Left and Right to change value	Pass
22	SP_GAIN_BRI_AV	0~255		Pass
23	SP_GAIN_BRI_YPBPR	0~255		Pass
24	SP_GAIN_BRI_HDMI	0~255		Pass
25	SP_GAIN_BRI_VGA	0~255		
26	SP_GAIN_CNT_DTV	Contrast 0~255		Pass
27	SP_GAIN_CNT_AV	0~255		Pass
28	SP_GAIN_CNT_YPBPR	0~255		Pass
29	SP_GAIN_CNT_HDMI	0~255		Pass
30	SP_GAIN_CNT_VGA	0~255		
31	SP_GAIN_TINT_DTV	Color 0~255		Pass
32	SP_GAIN_TINT_AV	0~255		Pass
33	SP_GAIN_TINT_YPBPR	0~255		Pass
34	SP_GAIN_TINT_HDMI	0~255		Pass
35	SP_GAIN_CLR_DTV	Color 0~255		Pass
36	SP_GAIN_CLR_AV	0~255		Pass

39	VIDEO_PWM_NORMAL		0~255		Pass
40	VIDEO_PWM_MEDIUM		0~255		Pass
41	VIDEO_PWM_MAXIMUN		0~255		Pass
42	VGA_PWM_MIN	to limit PC brightness range	0~255	Dark	Pass
43	VGA_PWM_MAX		0~255	Bright	Pass
	//YPbPr H/V Position	(value different by each timing)			
44	YPBPR_POS_H				Pass
45	YPBPR_POS_V	interlace no effect, only progressive can be adjusted			Pass
46	YPBPR_PHASE	Manual adjust HDMI phase			Pass
	//Audio				
47	AUD_GAIN_TV	volume different between audio source, for each source volume to be the same	64~-64		Pass
48	AUD_GAIN_DTV		64~-64		Pass
49	AUD_GAIN_HDMI		64~-64		Pass
50	AUD_GAIN_SCART		64~-64		Pass
51	AUD_GAIN_DVD				
52	AUD_HEADPHONE_VOL		12~-64		Pass
53	AUD_BALANCE	amplifier left and right volume	-50~50	Press Left and Right to change value	Pass
	//Tuner & Panel Id				
54	TUNER ID	4 is PHILIPS_FQA1236, 5 is Forward, 6 is PHILIPS_FQA1236_E, 7 is ALPS_TDQU4	4,5,6,7		Pass
55	PANEL_ID	value the same to CLI command			Pass

Select Smart picture to display a list of predefined picture settings, each corresponding with specific factory settings.

Personal refers to the personal preference settings of picture in the picture menu.

Note: This Magnavox TV has been set at the factory to look best in bright store environments, which typically use fluorescent lighting. As your home will likely not be as well lit as a store, we recommend that you cycle through the various smart picture modes to find the one that best suits your own viewing conditions. Most consumers will find that Natural is the correct choice.

You can press the Smart picture button on the remote control repeatedly to select either Personal, Rich, Natural, Soft, or Powersaver picture settings.

Note:

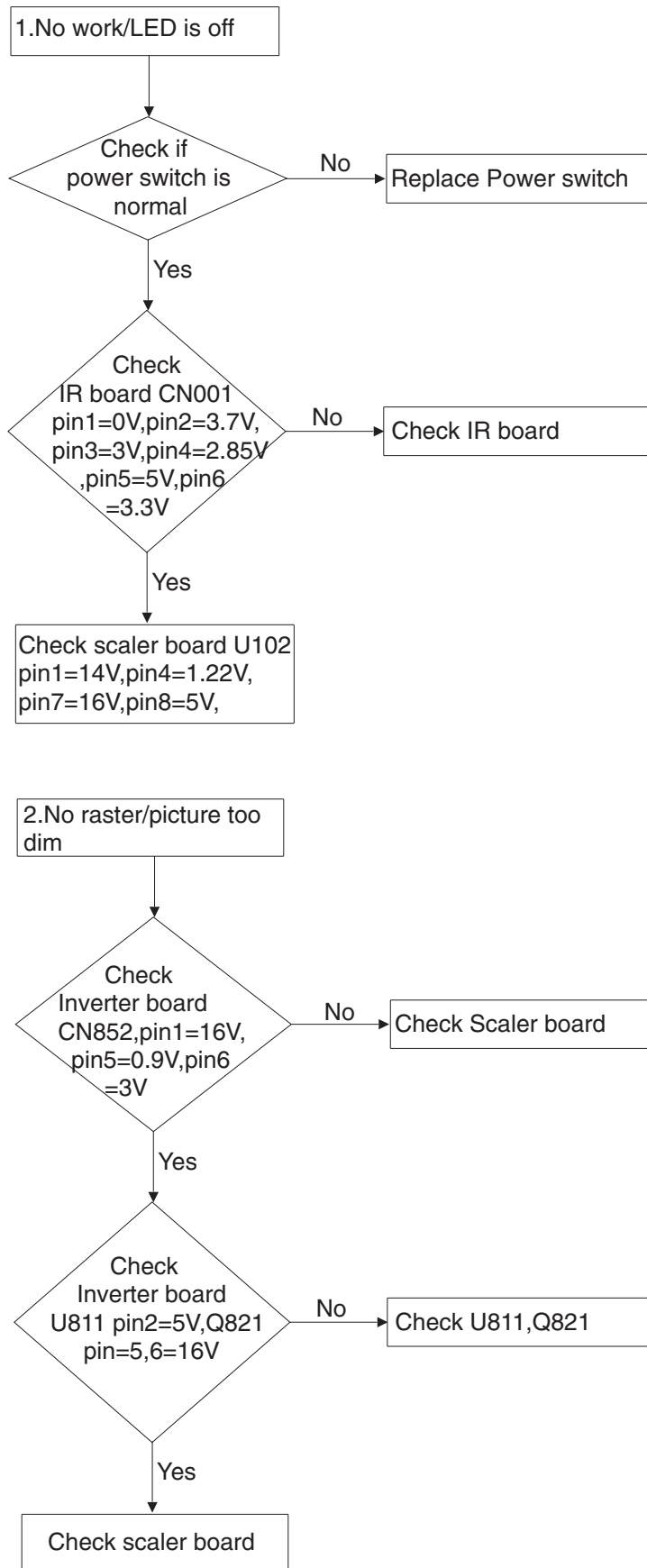
- When you watch programs by Composite Video signal, it's recommended to select Soft or Power saving Mode via Smart picture.

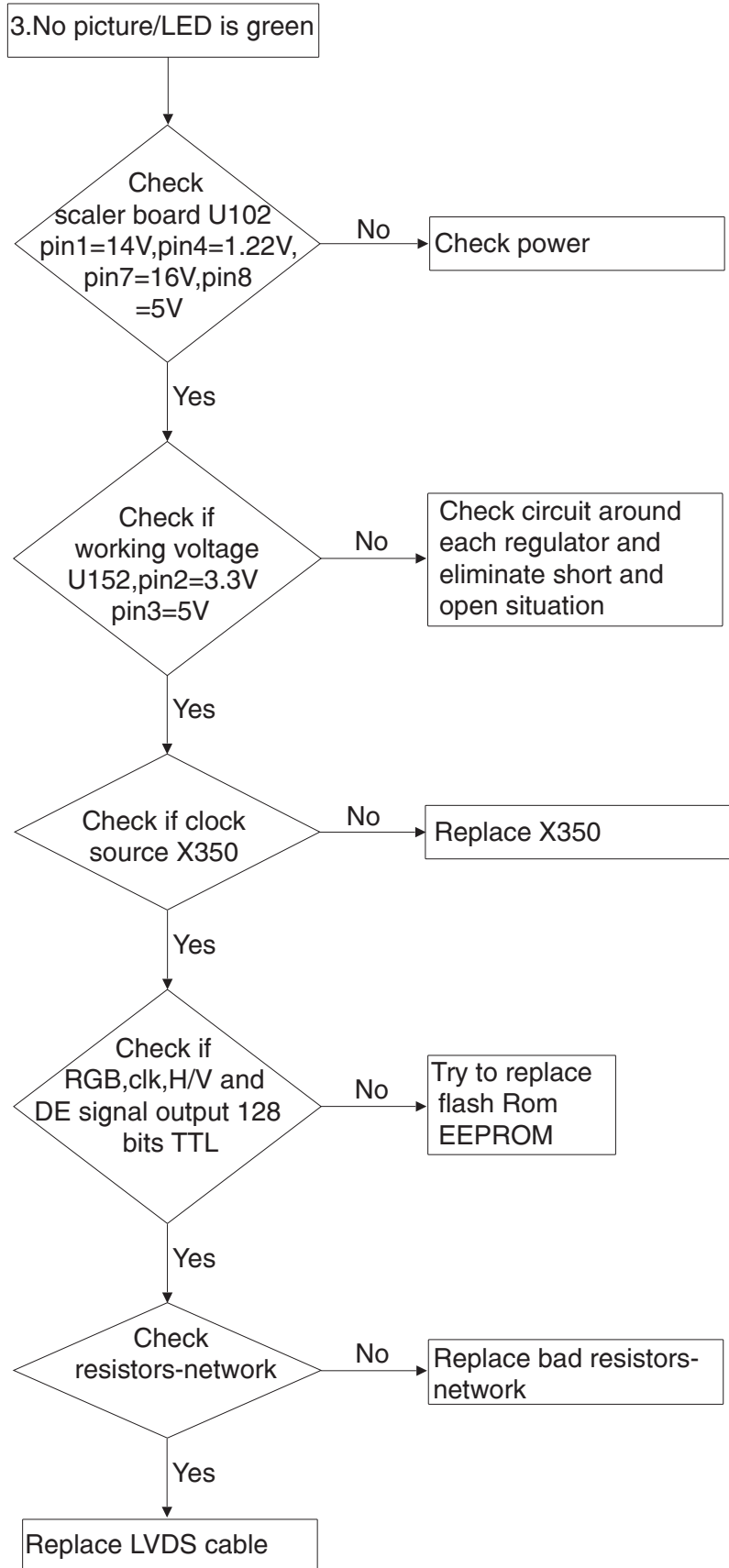
- The moment you are in a predefined Smart picture setting and you modify the Picture menu, all values of the menu will overwrite those previously made in personal setting.

#### Smart picture control items: (values different by smart picture)

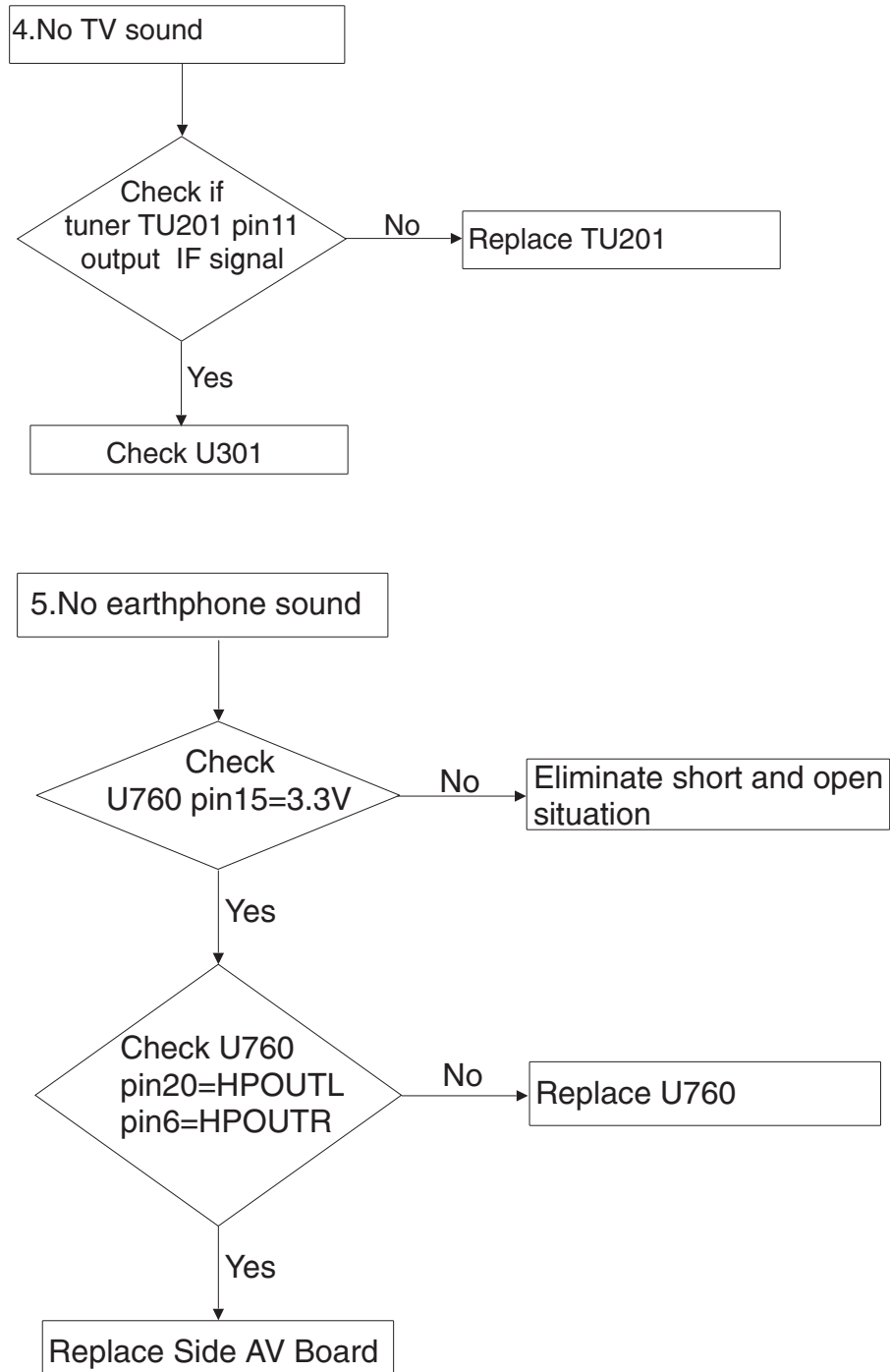
	User Menu OSD:(Back-End)	can be changed when factory mode
	Contrast	
	Brightness	
	Color	
	Sharpness	
	color temperature	
	Tint	
	Noise Reduction	
	Dynamic Contrast	
	Factory menu OSD	can be changed when factory mode
	SP_MODE_PWM (when Dynamic contrast Off)	
	SP_MODE_3DNR (range 0 to 5)	

## 5.3 Repair Flow Chart

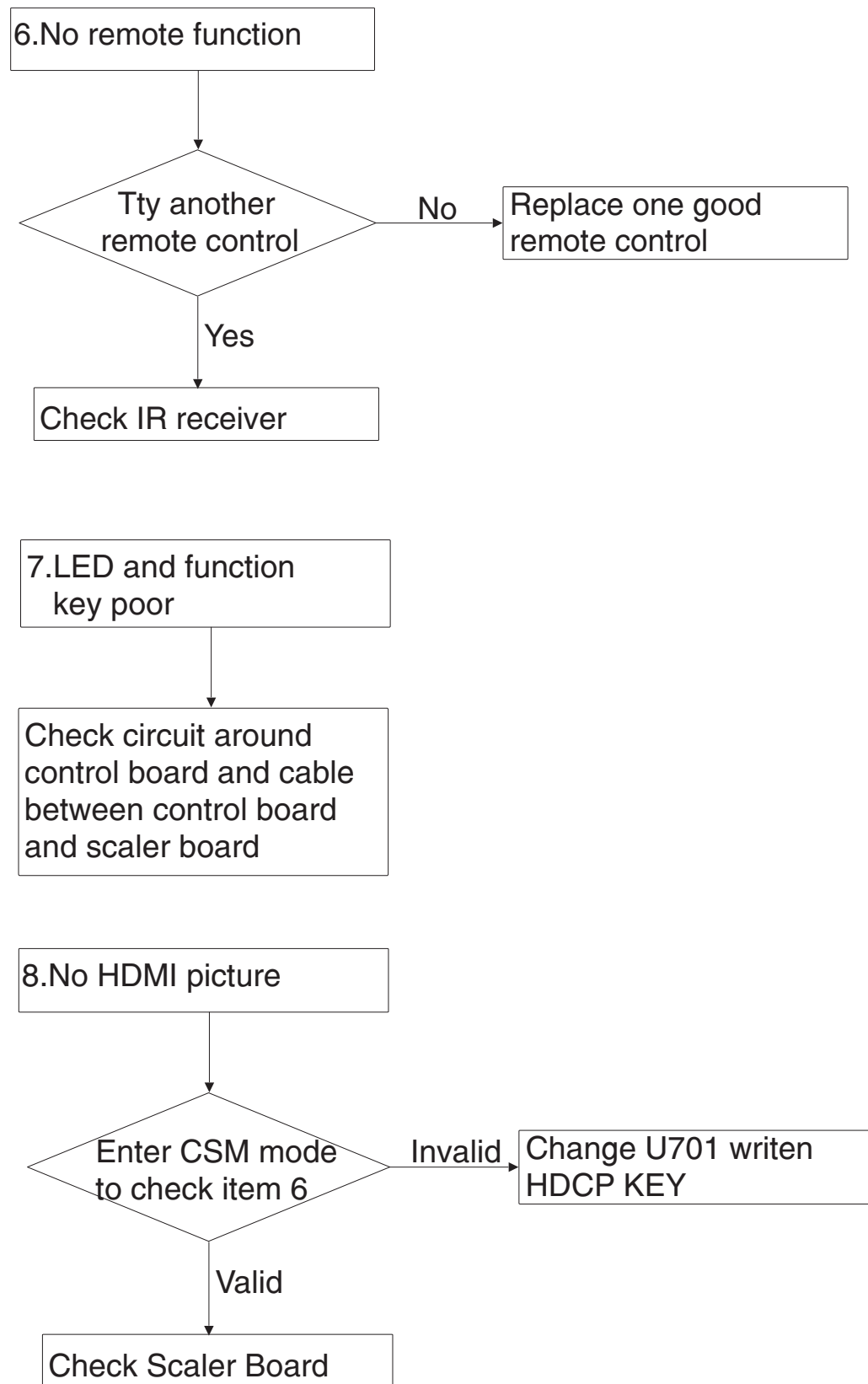




5. Service Modes, Error Codes and Fault Finding



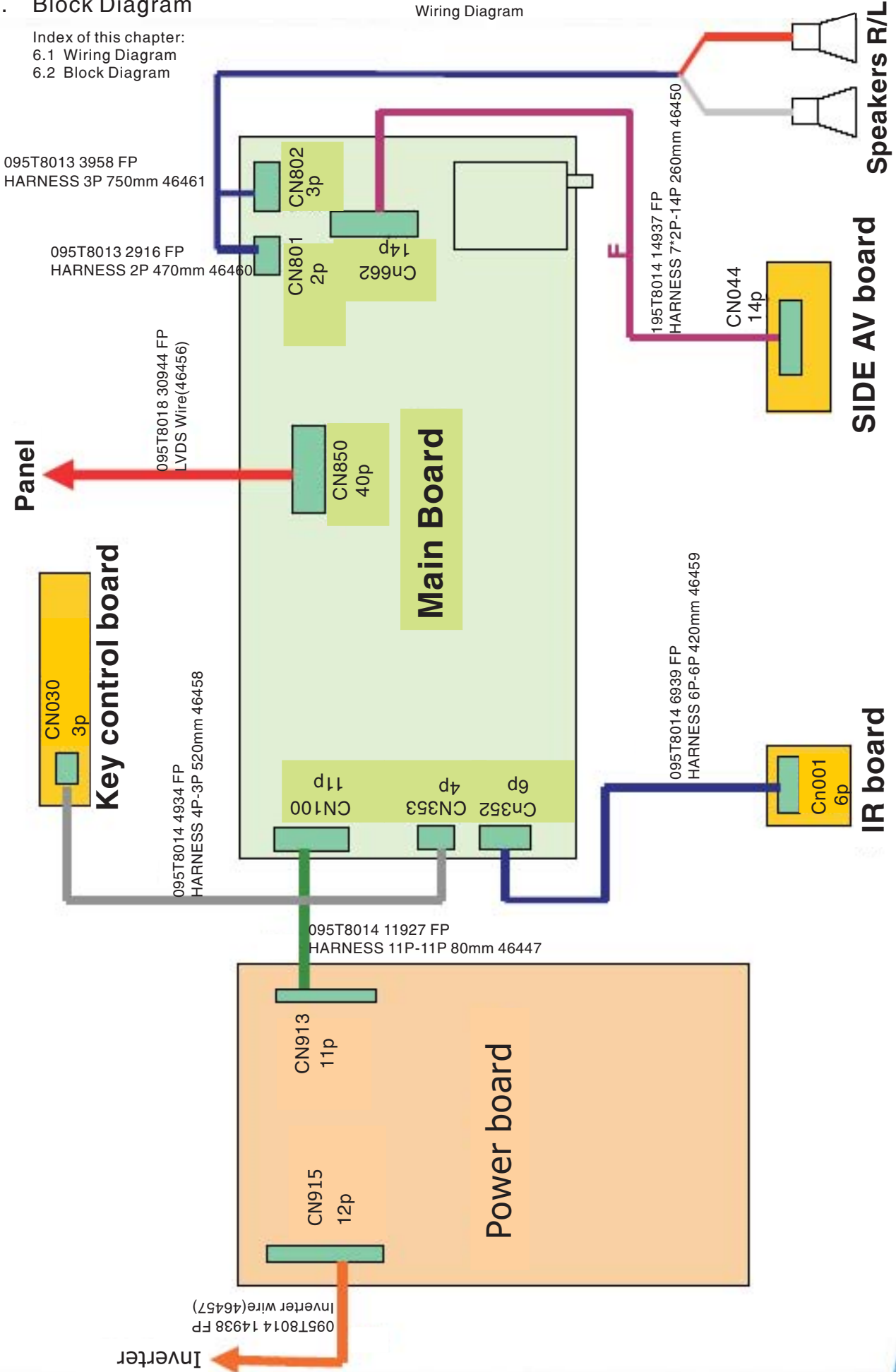




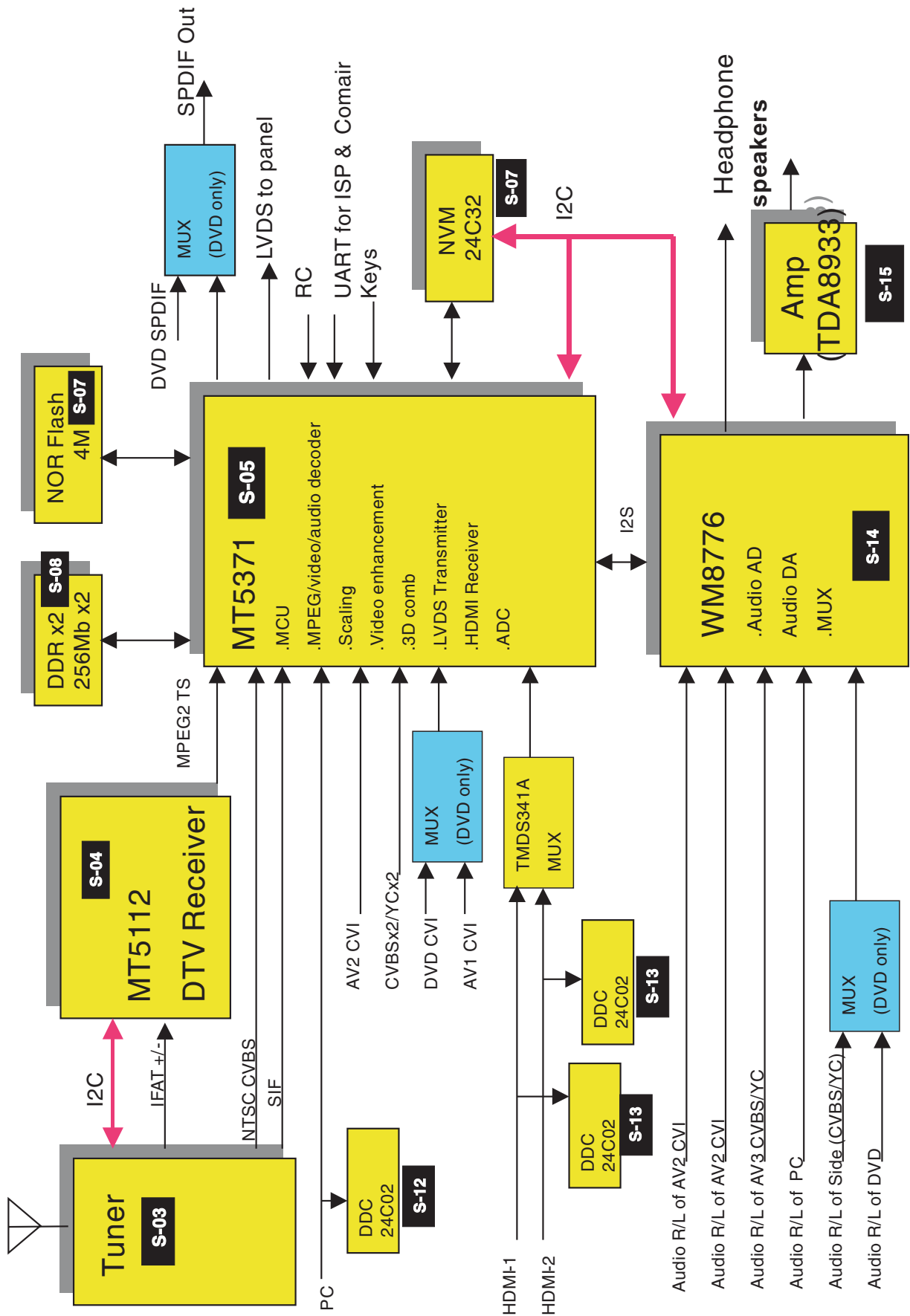
Wiring Diagram

6. Block Diagram

Index of this chapter:  
6.1 Wiring Diagram  
6.2 Block Diagram



Function Block of Main Board

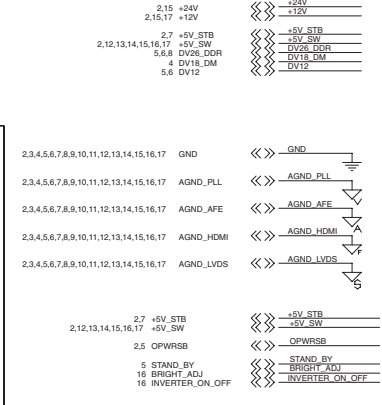
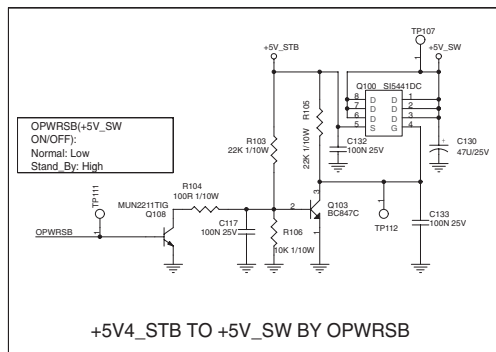
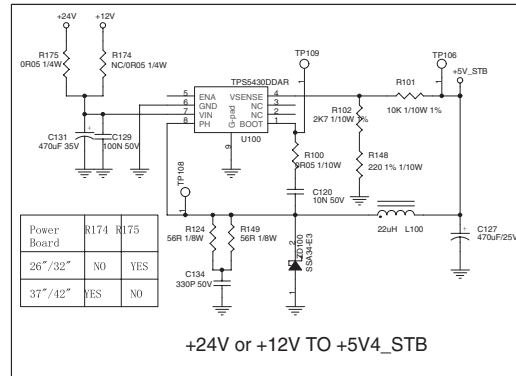
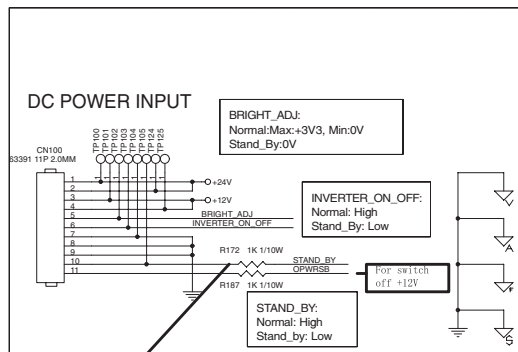




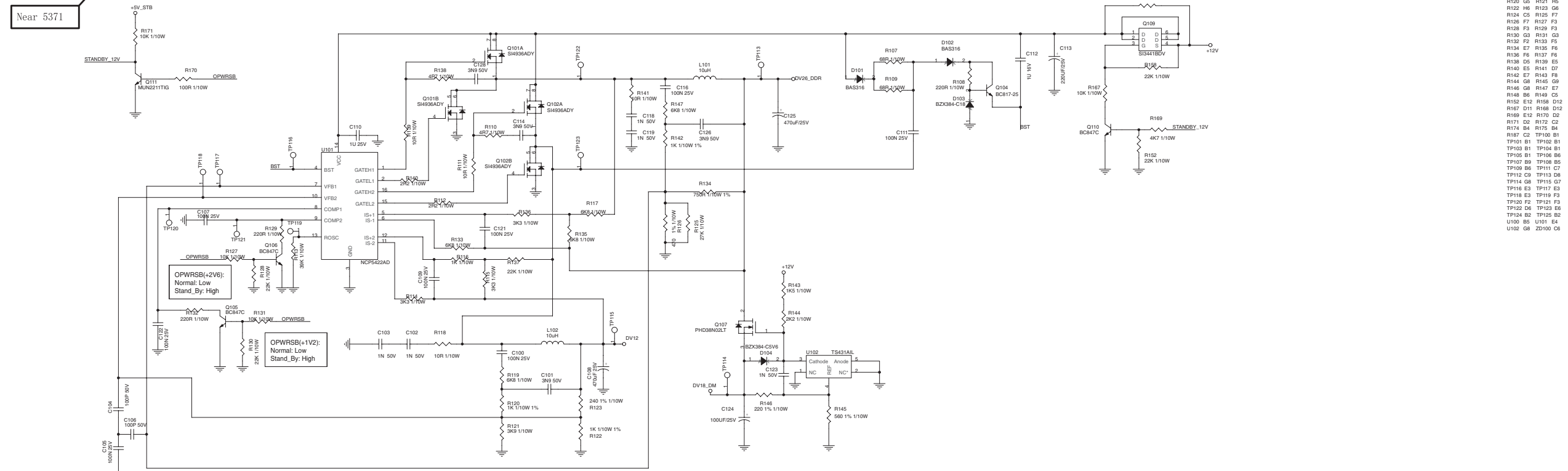
Scaler Board Schematic Diagram-Power

DL MT5371 / MT5112 - 4 LAYERS

S-01



- CN100 B1 C100 G5
- C101 B6 C102 G5
- C103 G4 C104 G2
- C105 H2 C106 H2
- C107 F3 C108 G6
- C109 F5 C110 E4
- C111 E9 C112 D10
- C113 D11 C114 E6
- C116 D7 C117 C8
- C118 E7 C119 E7
- C120 B6 C121 F5
- C122 G2 C123 G8
- C124 G6 C125 E8
- C126 E7 C127 C8
- C128 D5 C129 B4
- C130 B9 C131 B4
- C132 B9 C133 C9
- C134 C5 D101 D6
- D162 D10 D163 E10
- D194 G8 L100 C6
- L101 D7 L102 G6
- Q100 B9 Q101A D5
- Q101B E5 Q102A E6
- Q103B E6 Q103 C9
- Q104 D10 Q105 G3
- Q106 F3 Q107 G6
- Q108 C8 Q109 D12
- Q110 E11 Q111 D2
- R100 B6 R101 B6
- R102 B6 R103 B6
- R104 C8 R105 B9
- R106 C9 R107 D9
- R108 D10 R109 D9
- R110 E5 R111 E5
- R112 E5 R113 F3
- R114 F5 R115 F5
- R116 F5 R117 F6
- R118 G5 R119 G5
- R120 G5 R121 H5
- R122 H6 R123 G6
- R124 C5 R125 F7
- R126 F7 R127 F3
- R128 F3 R129 F3
- R130 G3 R131 G3
- R132 F2 R133 F5
- R134 E7 R135 F6
- R136 F6 R137 F6
- R138 D5 R139 E5
- R140 E5 R141 D7
- R142 E7 R143 G9
- R144 G8 R145 G9
- R146 G8 R147 E7
- R148 B6 R149 C5
- R152 E12 R156 D12
- R167 D11 R168 D12
- R169 E12 R170 D2
- R171 D2 R172 C2
- R174 B4 R175 B4
- R187 C2 TP100 B1
- TP101 B1 TP102 B1
- TP103 B1 TP104 B1
- TP105 B1 TP106 B6
- TP107 B9 TP108 B5
- TP109 B6 TP111 C7
- TP112 C9 TP113 D8
- TP114 G8 TP115 G7
- TP116 E3 TP117 E3
- TP118 E3 TP119 F3
- TP120 F2 TP121 F3
- TP122 D6 TP123 E6
- TP124 G2 TP125 B2
- U100 B5 U101 E4
- U102 G8 ZD100 C6



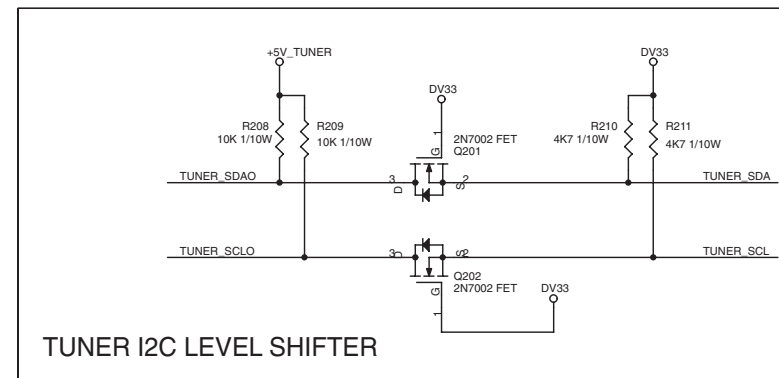
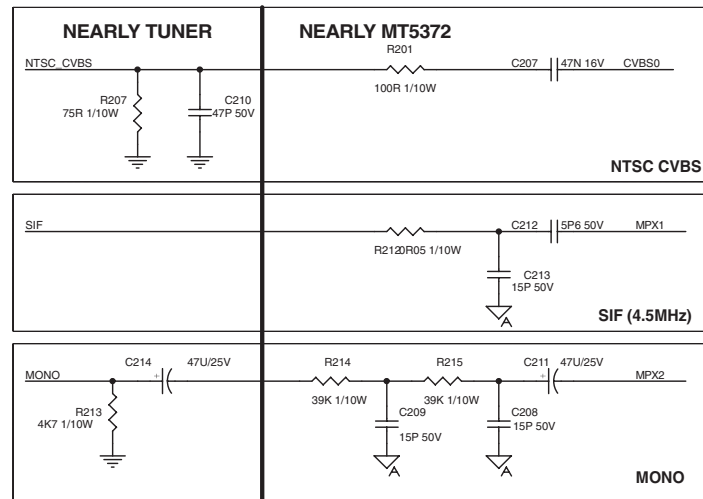
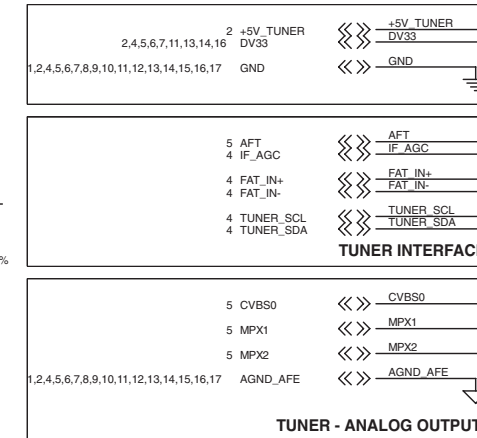
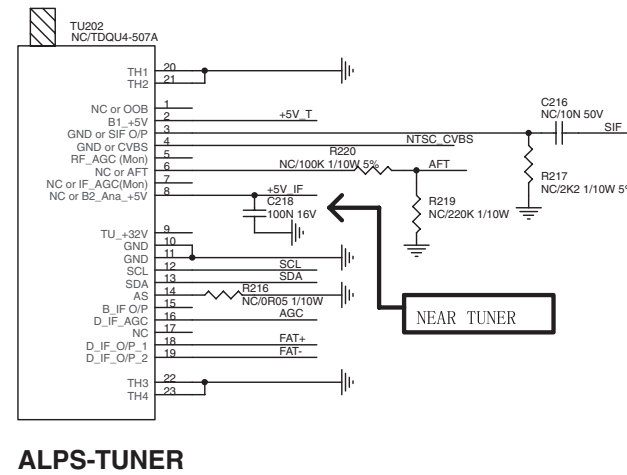
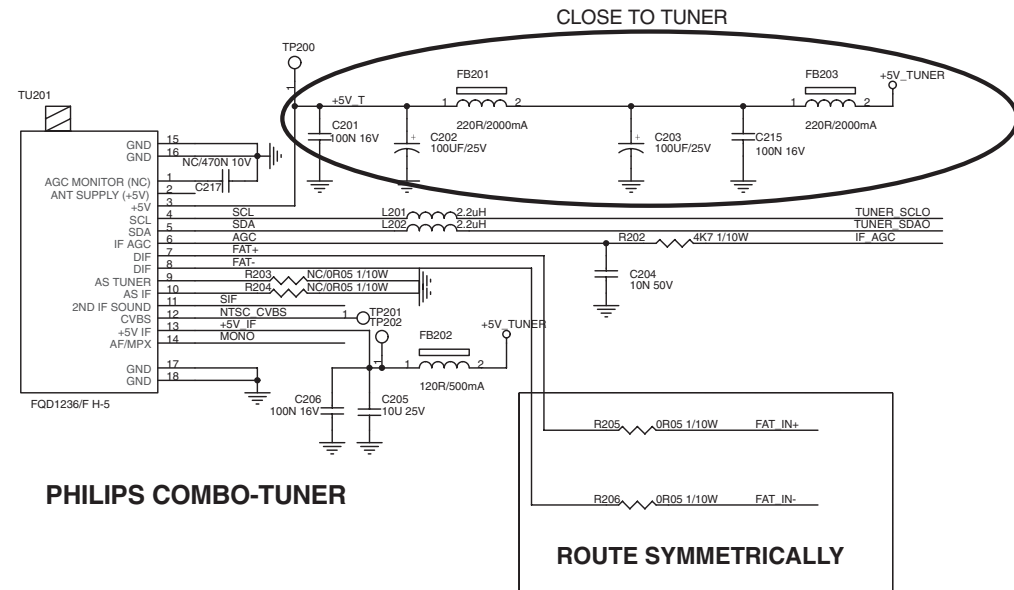


Scaler Board Schematic Diagram-Tuner

S-03

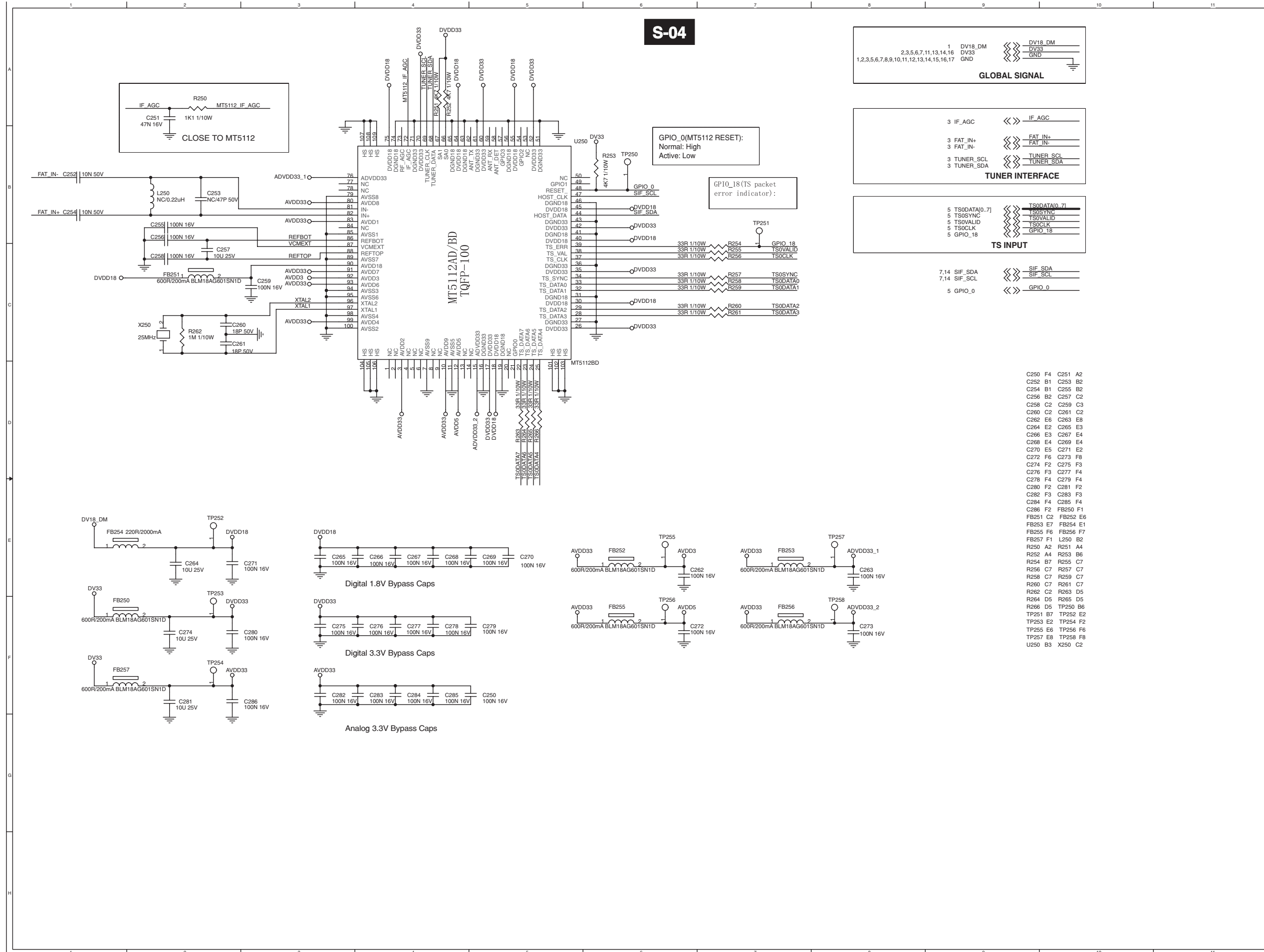
TU201 AND TU202 IS SAME LOCATION

TUNER	TU201	TU202	C216	R217	R207	R219	R220	C218	R216
PHILIPS	FQD1236	NC	NC	NC	75R	NC	NC	NC	NC
ALPS	NC	TDUQ2	10N	2K2	NC	220K	100K	100N	0R



- C201 C3 C202 C3
- C203 C4 C204 C4
- C205 D3 C206 D3
- C207 E4 C208 G4
- C209 G3 C210 F3
- C211 G4 C212 F4
- C213 F4 C214 G2
- C215 C5 C216 C9
- C217 C2 C218 C7
- FB201 B3 FB202 D3
- FB203 B5 L201 C3
- L202 C3 Q201 F8
- Q202 F8 R201 E3
- R202 C4 R203 C3
- R204 C3 R205 D4
- R206 D4 R207 F2
- R208 F7 R209 F7
- R210 F9 R211 F9
- R212 F3 R213 G2
- R214 G3 R215 G4
- R216 D7 R217 C9
- R219 C8 R220 C8
- TP200 B3 TP201 C3
- TP202 D3 TU201 C1

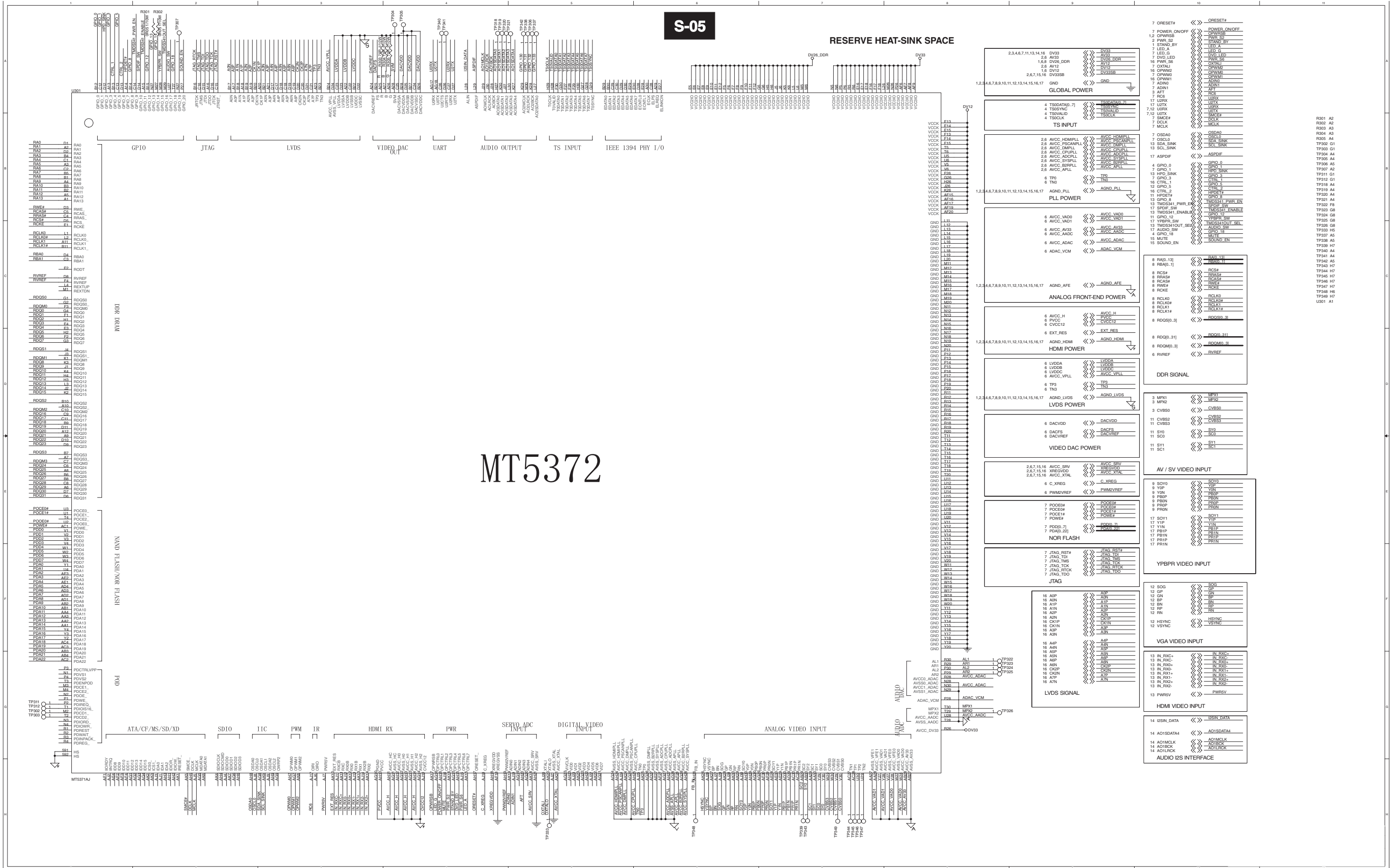
# Scaler Board Schematic Diagram-ASIC



- C250 F4 C251 A2
- C252 B1 C253 B2
- C254 B1 C255 B2
- C256 B2 C257 C2
- C258 C2 C259 C3
- C260 C2 C261 C2
- C262 E6 C263 E8
- C264 E2 C265 E3
- C266 E3 C267 E4
- C268 E4 C269 E4
- C270 E5 C271 E2
- C272 F6 C273 F8
- C274 F2 C275 F3
- C276 F3 C277 F4
- C278 F4 C279 F4
- C280 F2 C281 F2
- C282 F3 C283 F3
- C284 F4 C285 F4
- C286 F2 FB250 F1
- FB251 C2 FB252 E6
- FB253 E7 FB254 E1
- FB255 F6 FB256 F7
- FB257 F1 L250 B2
- R250 A2 R251 A4
- R252 A4 R253 B6
- R254 B7 R255 C7
- R256 C7 R257 C7
- R258 C7 R259 C7
- R260 C7 R261 C7
- R262 C2 R263 D5
- R264 D5 R265 D5
- R266 D5 TP250 B6
- TP251 B7 TP252 E2
- TP253 E2 TP254 F2
- TP255 E6 TP256 F6
- TP257 E8 TP258 F8
- U250 B3 X250 C2



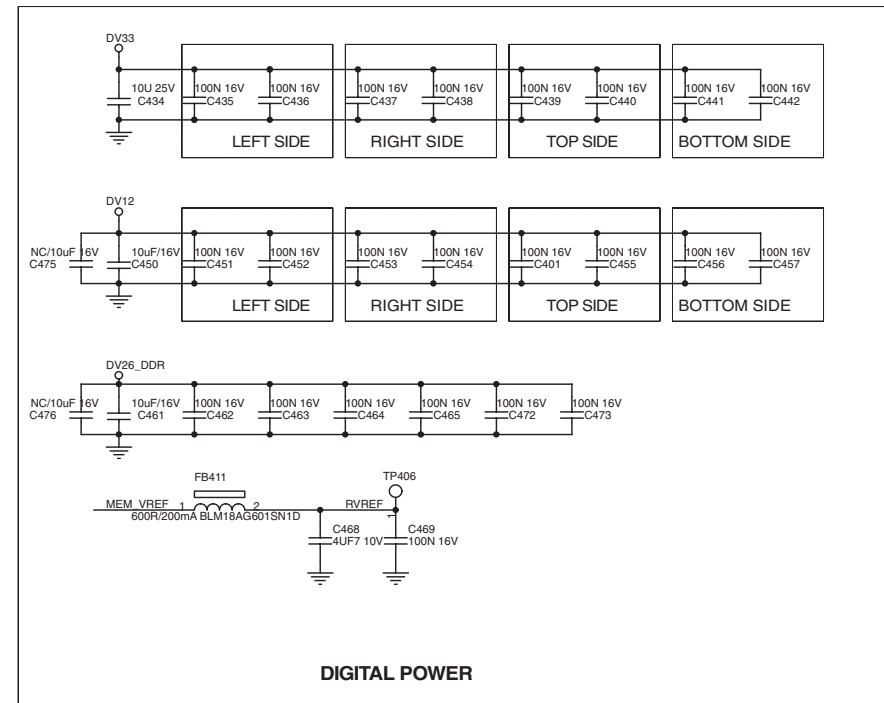
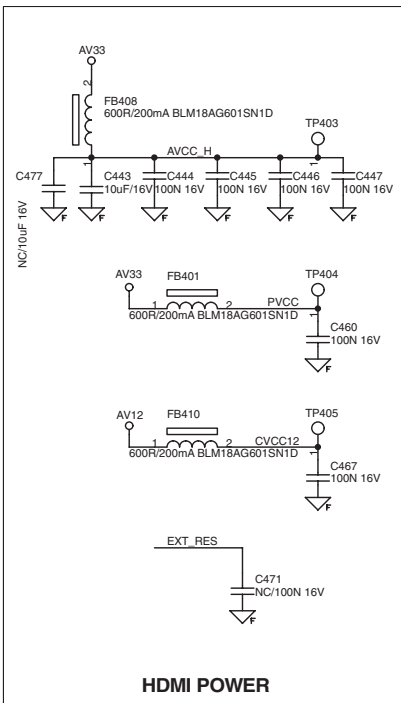
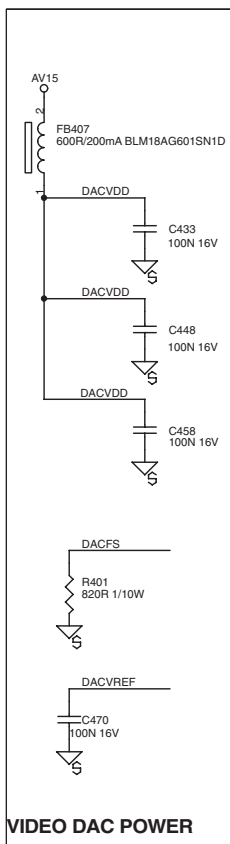
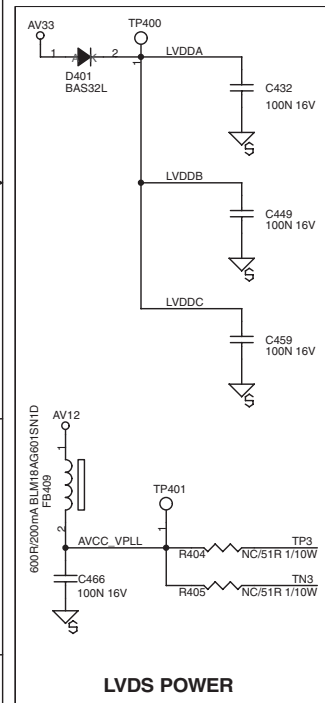
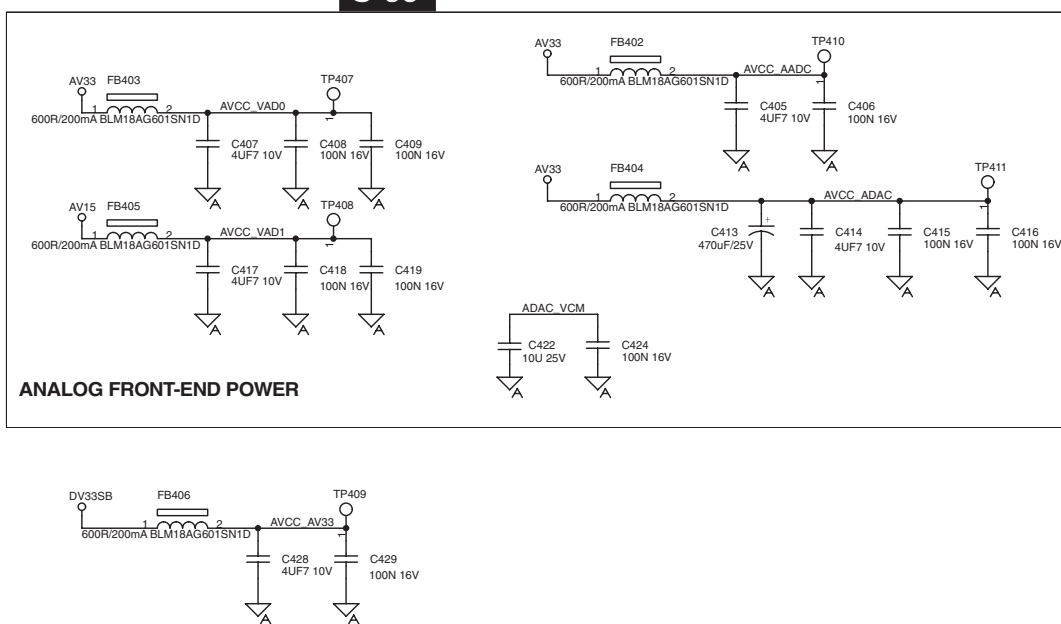
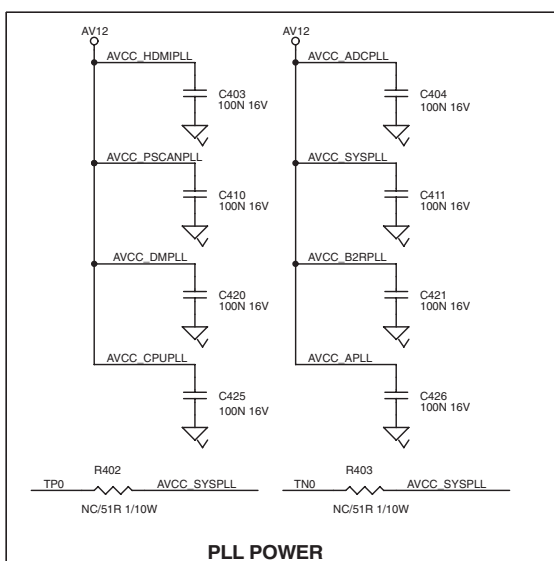
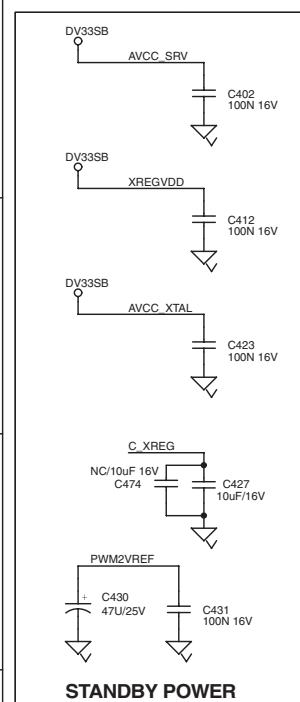
Scaler Board Schematic Diagram-ATSC



# 7. Circuit Diagrams and PWB Layouts

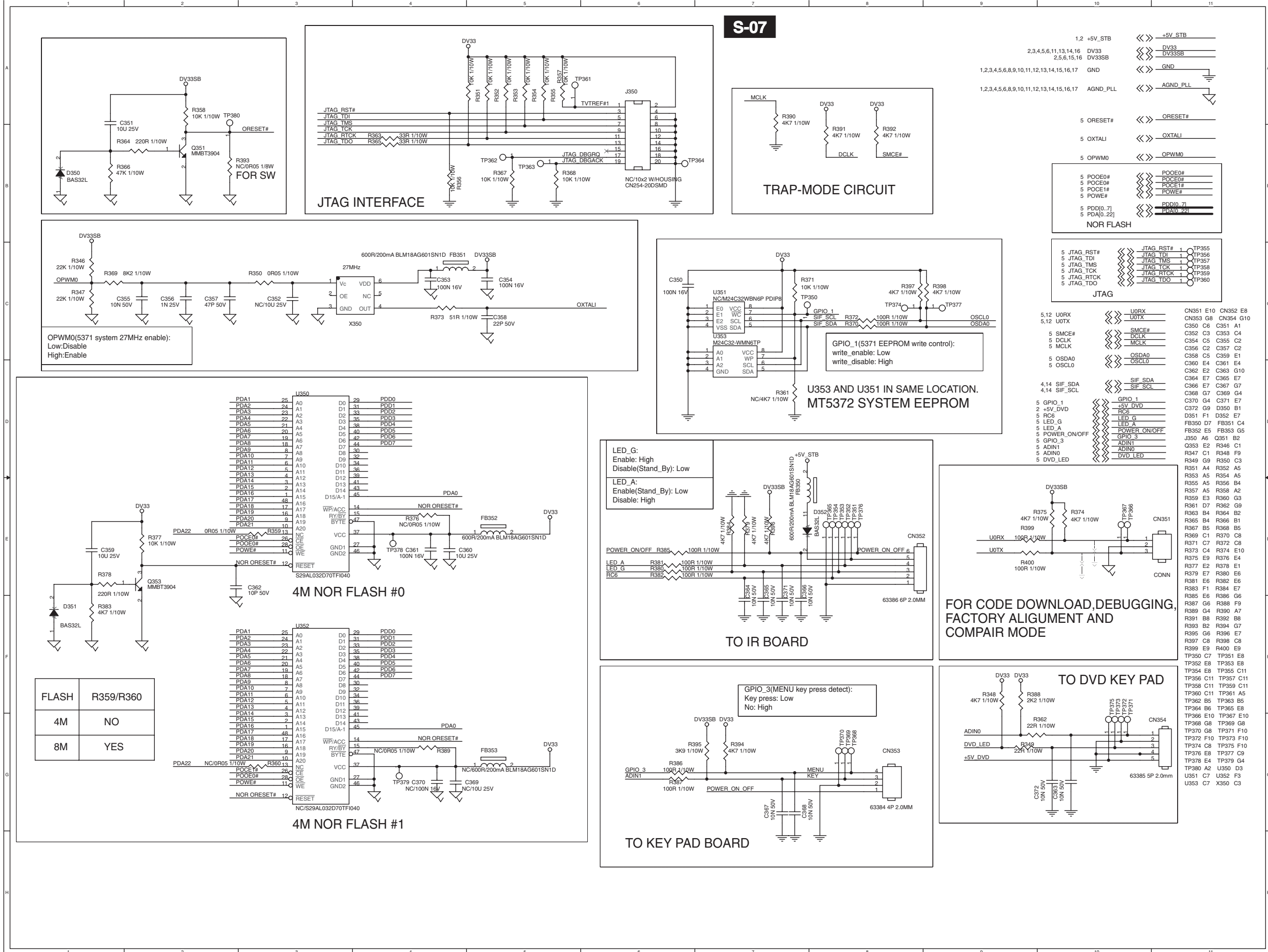
## Scaler Board Schematic Diagram-BYPASS CAP

S-06

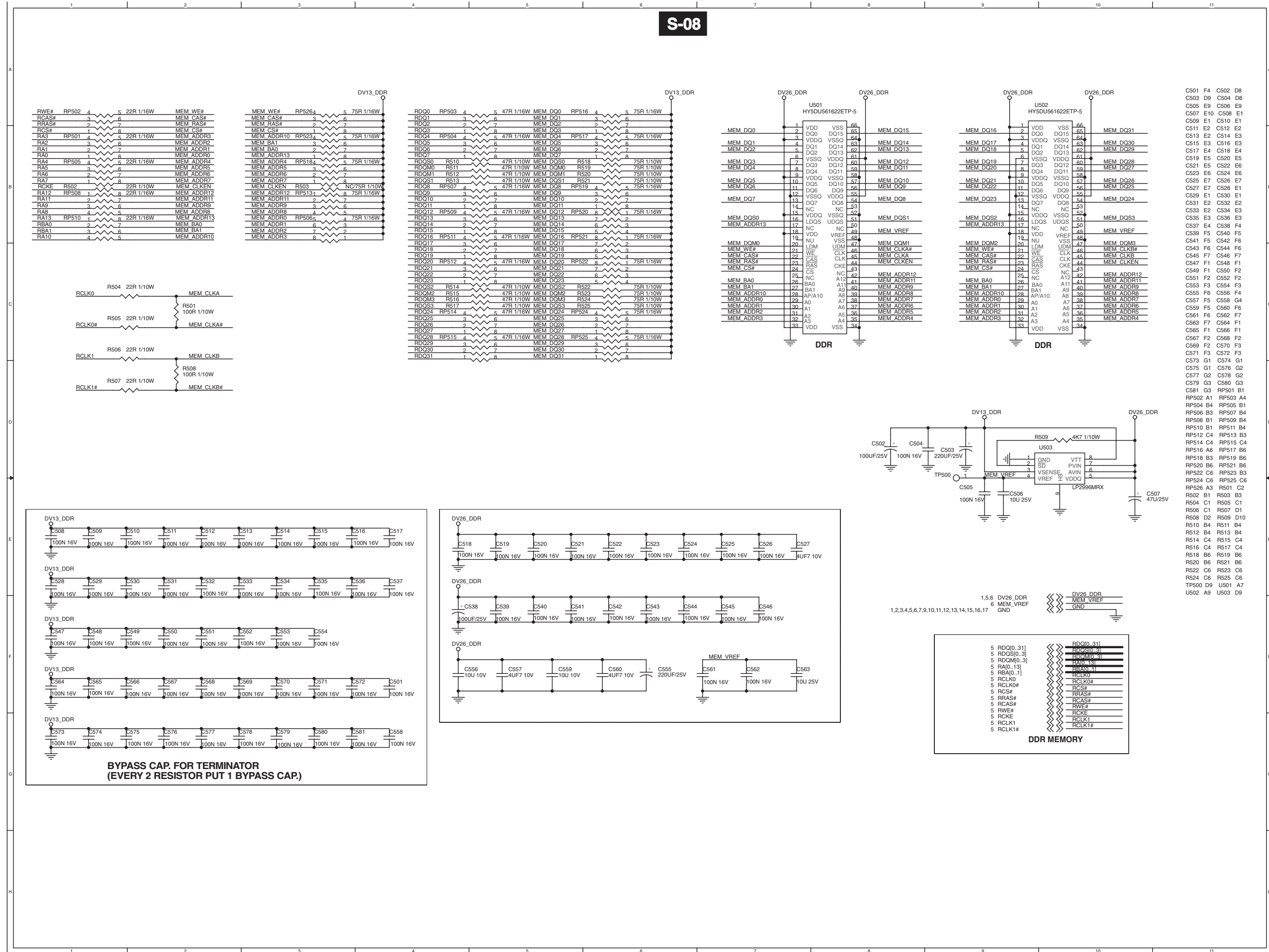


2,3,4,5,7,11,13,14,16	DV33	AVCC_SRV	AVCC_SRV	C401 E7
2	AV33	XREGVDD	XREGVDD	C402 A1
1,5,8	DV26_DDR	AVCC_XTAL	AVCC_XTAL	C403 A3
2	AV15	C_XREG	C_XREG	C404 A3
2,5	AV12	PWM2VREF	PWM2VREF	C405 A7
1,5	DV12			C406 A8
2,5,7,15,16	DV33SB			C407 A5
				C408 A6
				C409 A6
				C410 A3
1,2,3,4,5,7,8,9,10,11,12,13,14,15,16,17	GND			C411 A3
				C412 B1
				C413 B8
				C414 B8
				C415 B8
				C416 B9
				C417 B5
				C418 B6
				C419 B6
				C420 B3
				C421 B3
				C422 B6
				C423 B1
				C424 B7
				C425 B3
				C426 B3
				C427 C1
				C428 C5
				C429 C6
				C430 C1
				C431 C1
				C432 D1
				C433 D3
				C434 D5
				C435 D6
				C436 D6
				C437 D6
				C438 D7
				C439 D7
				C440 D7
				C441 D8
				C442 D8
				C443 D3
				C444 D4
				C445 D4
				C446 D4
				C447 D4
				C448 D3
				C449 E1
				C450 E5
				C451 E6
				C452 E6
				C453 E6
				C454 E7
				C455 E7
				C456 E8
				C457 E8
				C458 E3
				C459 E1
				C460 E4
				C461 E5
				C462 E5
				C463 E6
				C464 E6
				C465 E7
				C466 F1
				C467 F4
				C468 F6
				C469 F6
				C470 F2
				C471 F4
				C472 E7
				C473 E7
				C474 C1
				C475 E5
2,5,7,15,16	AVCC_SRV	AVCC_SRV	AVCC_SRV	C476 E5
2,5,7,15,16	XREGVDD	XREGVDD	XREGVDD	C477 D3
2,5,7,15,16	AVCC_XTAL	AVCC_XTAL	AVCC_XTAL	D401 D1
				FB401 E4
5	C_XREG	C_XREG	C_XREG	FB402 A7
				FB403 A5
				FB404 A7
				FB405 B5
				FB406 C5
				FB407 D2
				FB408 D3
				FB409 F1
				FB410 E4
				FB411 F6
				R401 F2
				R402 C2
				R403 C3
				R404 F1
				R405 F1
				TP400 D1
				TP401 F1
				TP403 D4
				TP404 E4
				TP405 E4
				TP406 F6
				TP407 A6
				TP408 B6
				TP409 C6
				TP410 A8
				TP411 A9

Scaler Board Schematic Diagram-Flash

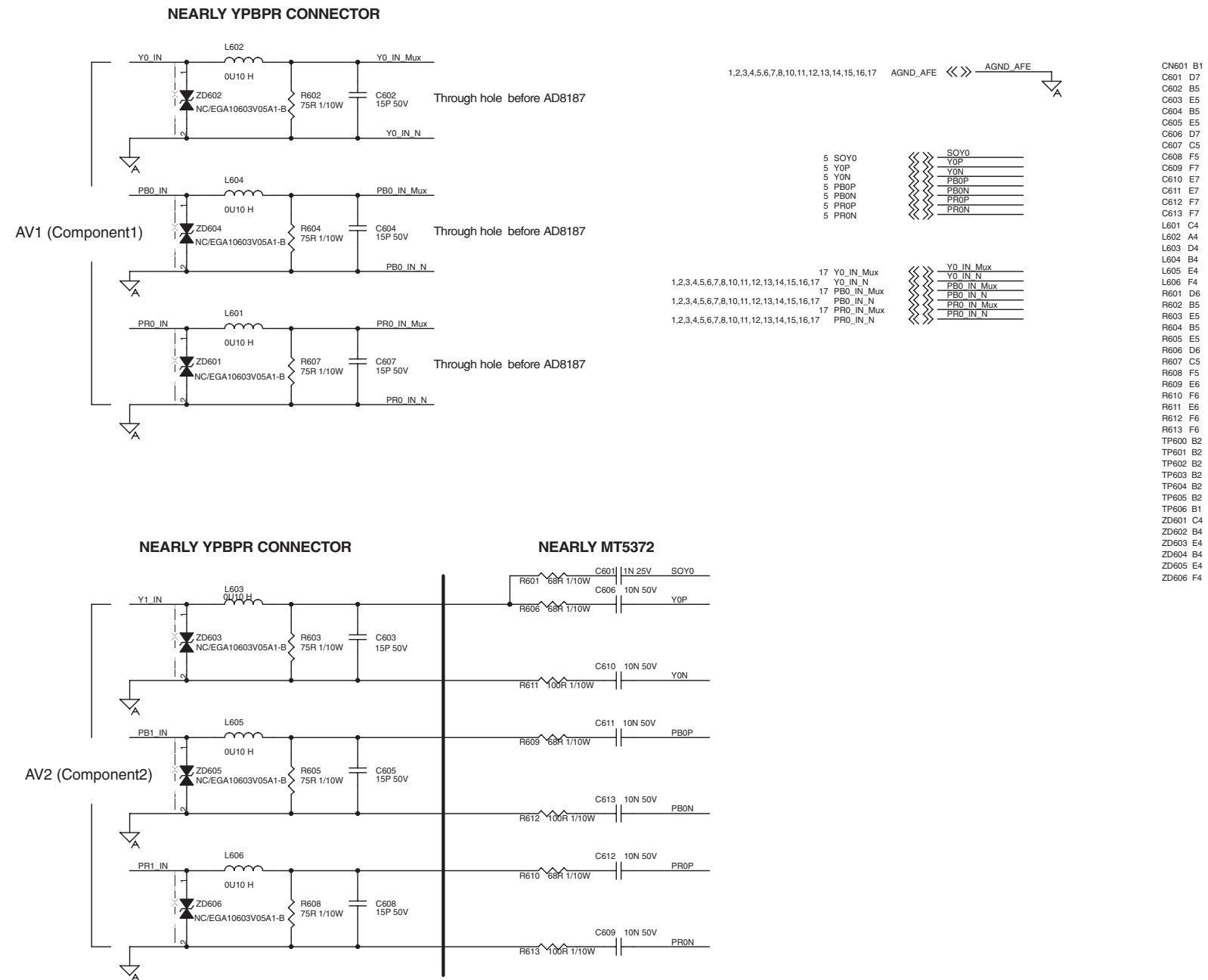
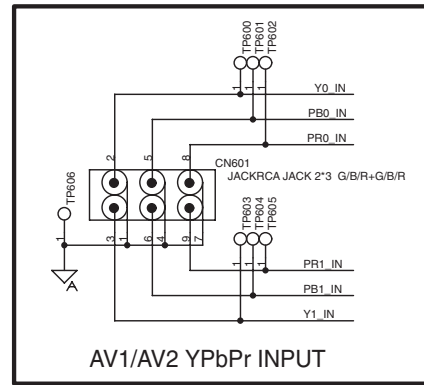


Scaler Board Schematic Diagram-DDR Memory



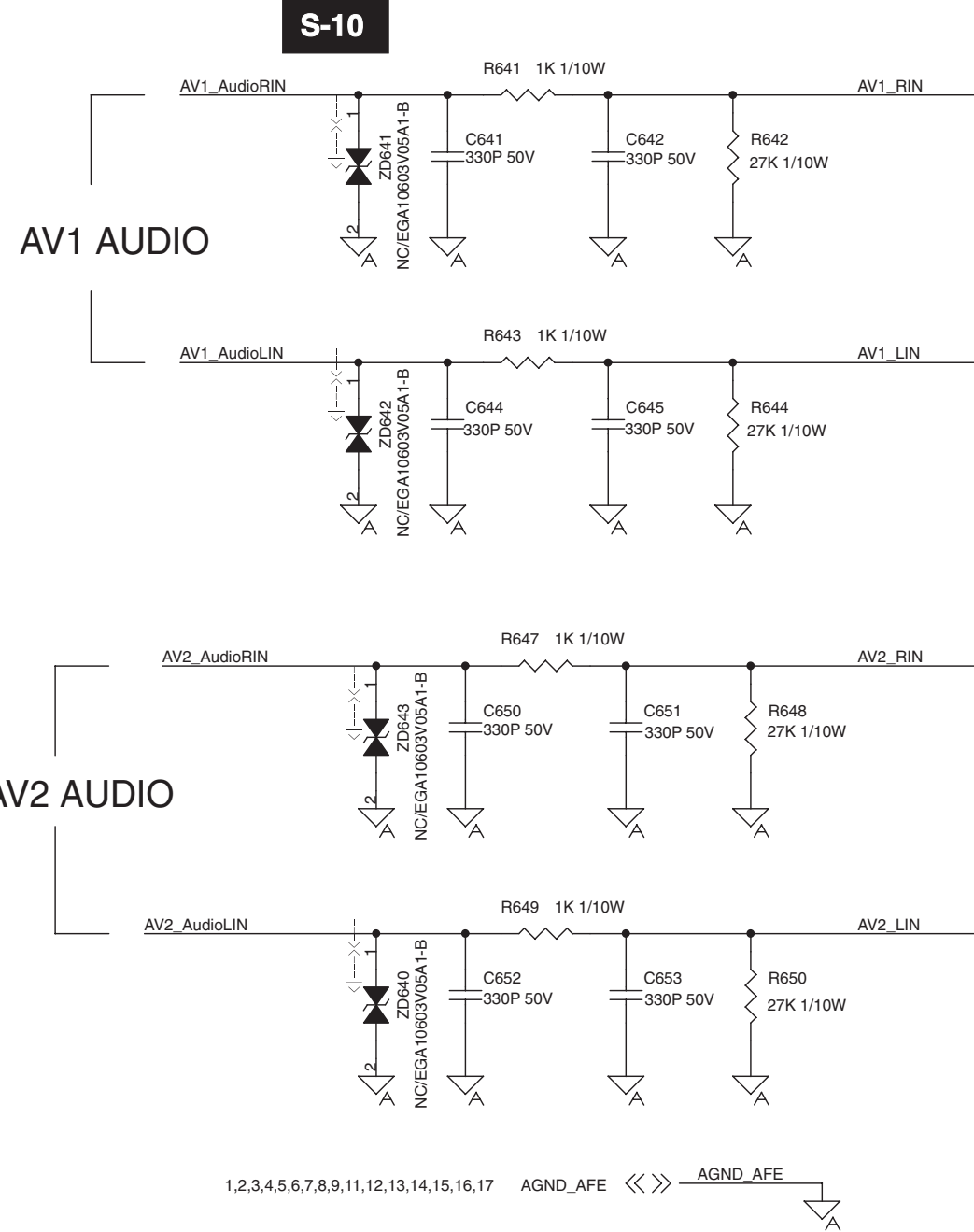
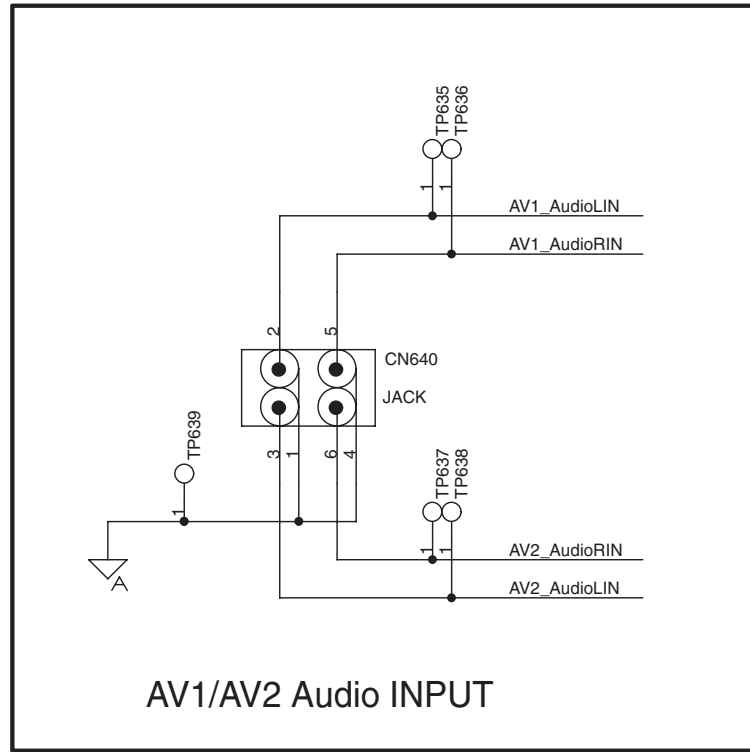
Scaler Board Schematic Diagram-AV1/AV2 YFbPrint

S-09

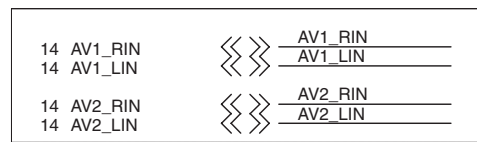


7. Circuit Diagrams and PWB Layouts

Scaler Board Schematic Diagram-AV1/AV2 Audio Input

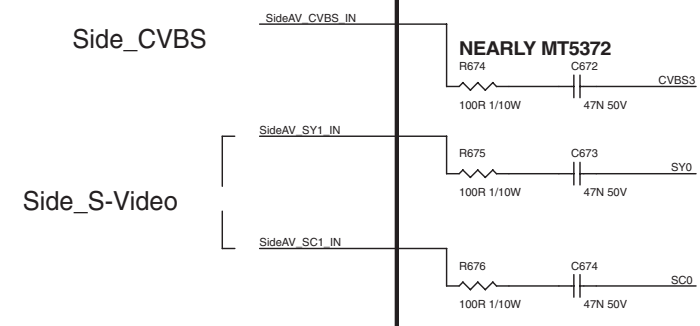
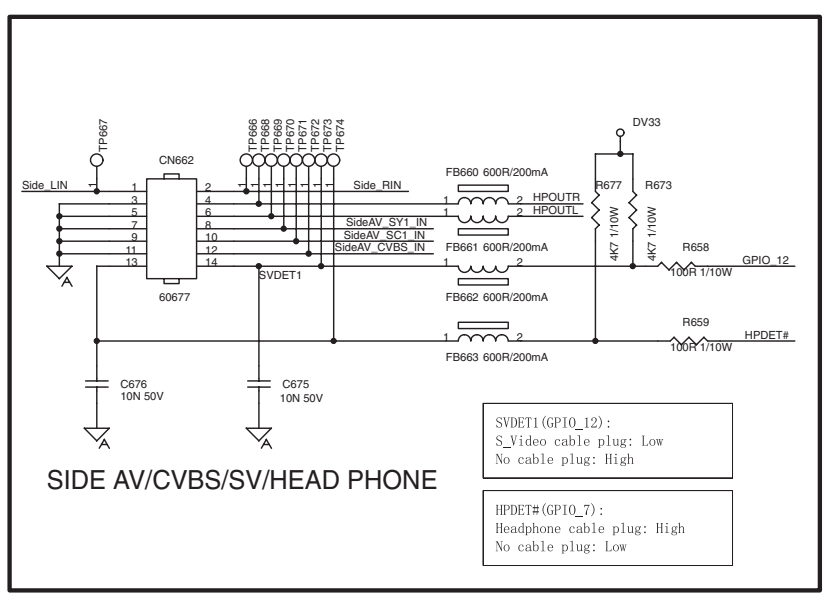
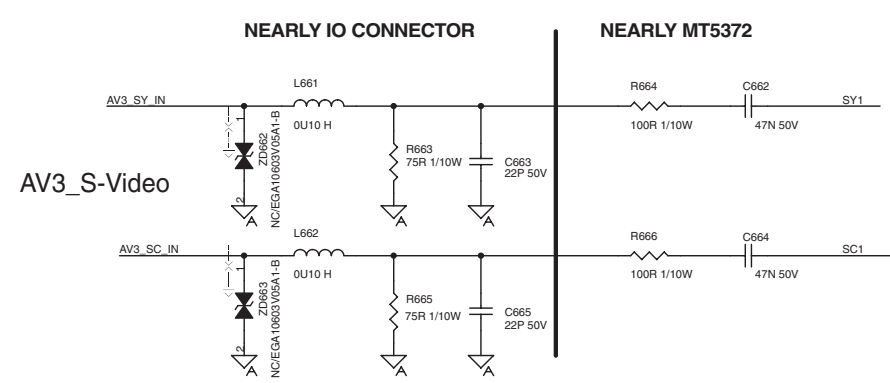
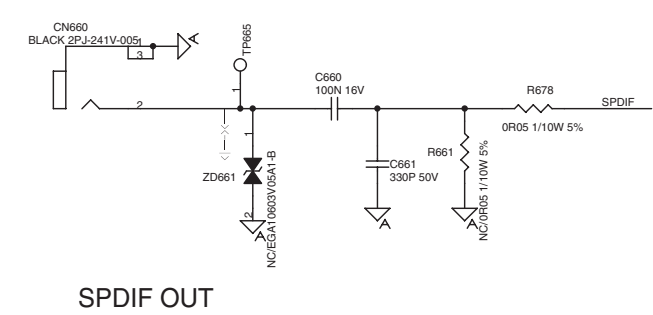
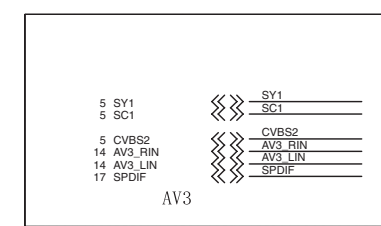
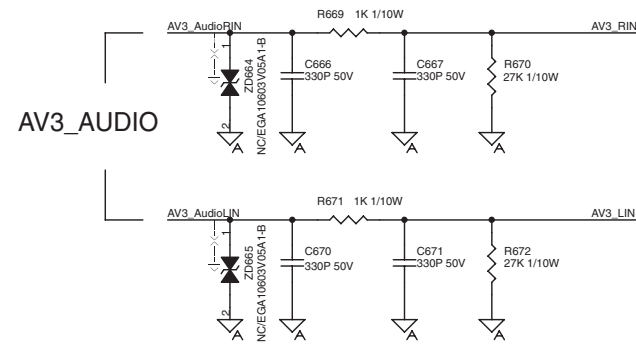
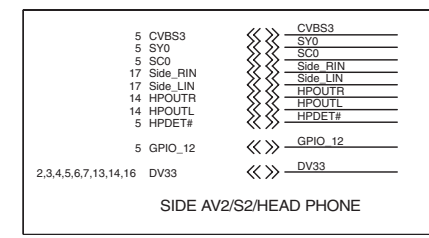
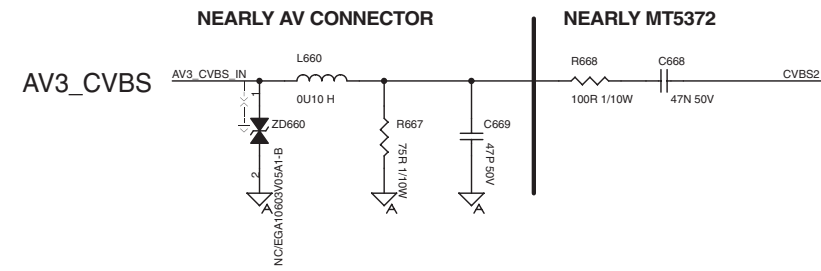
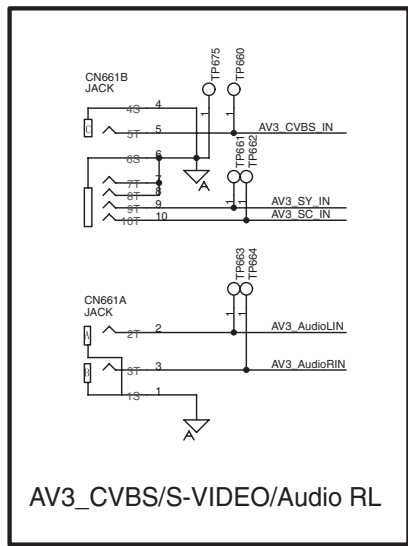


- CN640 B2
- C641 A5
- C642 A6
- C644 B5
- C645 B6
- C650 C5
- C651 C6
- C652 C5
- C653 C6
- R641 A5
- R642 A6
- R643 B5
- R644 B6
- R647 B5
- R648 C6
- R649 C5
- R650 C6
- TP635 A2
- TP636 A2
- TP637 B2
- TP638 B2
- TP639 B1
- ZD640 C5
- ZD641 A5
- ZD642 B5
- ZD643 C5



Scaler Board Schematic Diagram-Side AV/AV3/SPDIF OUT

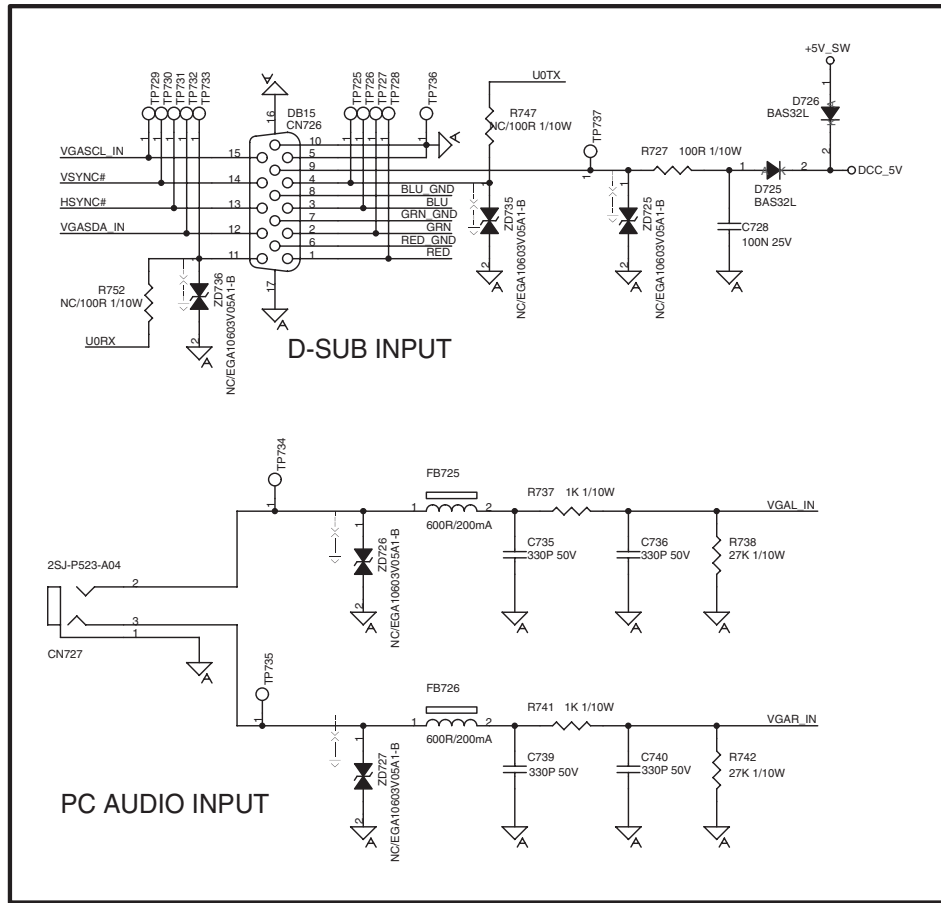
S-11



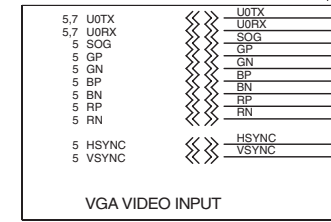
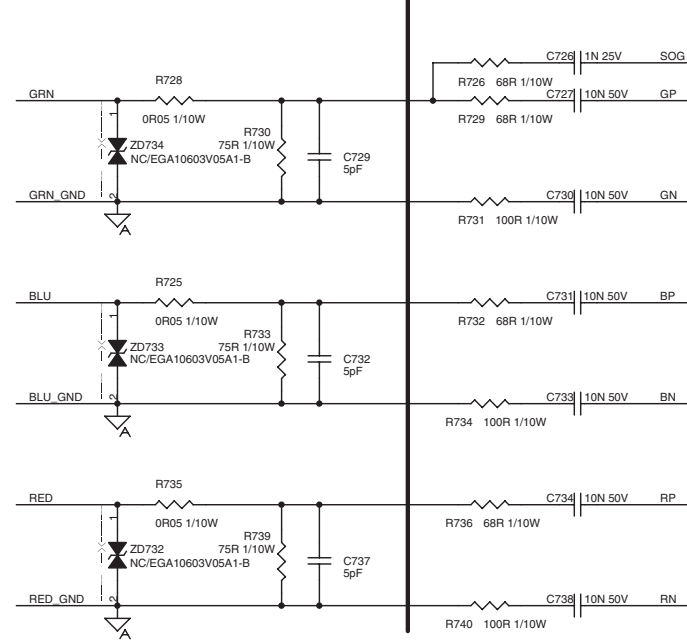
- CN660 D1
- CN661A B1
- CN661B A1
- CN662 F1
- C660 D2
- C661 D2
- C662 E7
- C663 E6
- C664 E7
- C665 F6
- C666 C6
- C667 C6
- C668 A7
- C669 B6
- C670 C6
- C671 C6
- C672 G7
- C673 G7
- C674 H7
- C675 G2
- C676 G1
- FB660 F3
- FB661 F3
- FB662 F3
- FB663 F3
- L660 A6
- L661 E6
- L662 E6
- R658 F3
- R659 G4
- R661 D3
- R663 E6
- R664 E7
- R665 E6
- R666 E7
- R667 B6
- R668 A7
- R669 B6
- R670 C7
- R671 C6
- R672 C7
- R673 F3
- R674 G7
- R675 G7
- R676 H7
- R677 F3
- R678 D3
- TP660 A2
- TP661 A2
- TP662 A2
- TP663 B2
- TP664 B2
- TP665 D2
- TP666 F2
- TP667 F1
- TP668 F2
- TP669 F2
- TP670 F2
- TP671 F2
- TP672 F2
- TP673 F2
- TP674 F2
- TP675 A1
- ZD660 B5
- ZD661 D2
- ZD662 E5
- ZD663 E5
- ZD664 C5
- ZD665 C5

Scaler Board Schematic Diagram-VGA/PC AUDIO INPUT

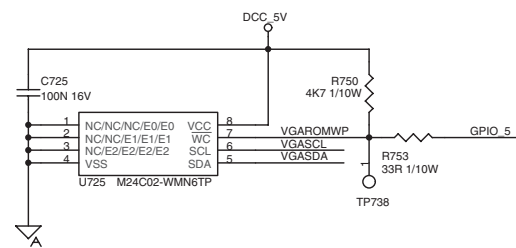
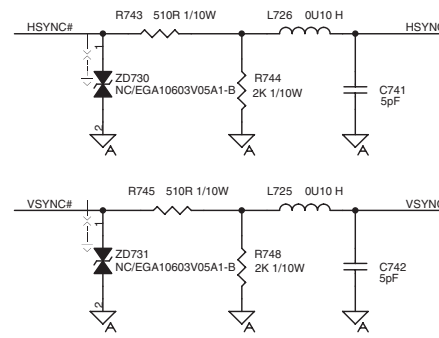
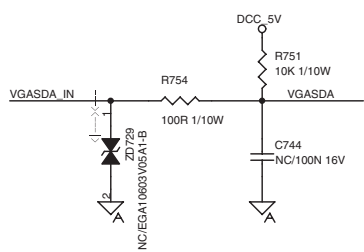
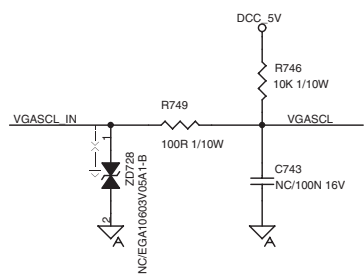
S-12



NEARLY VGA CONNECTOR



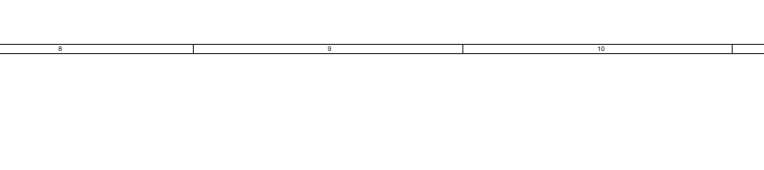
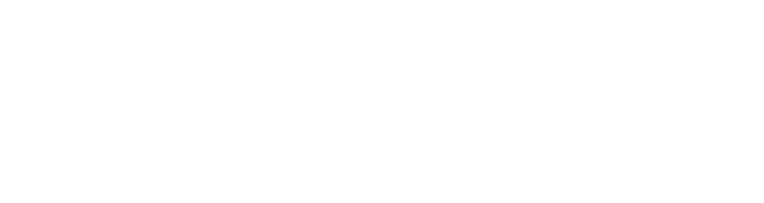
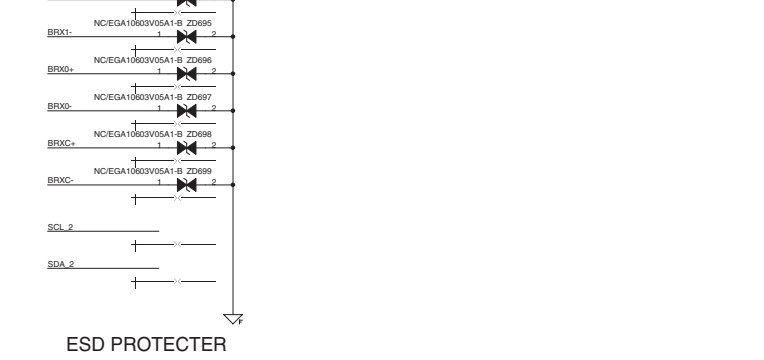
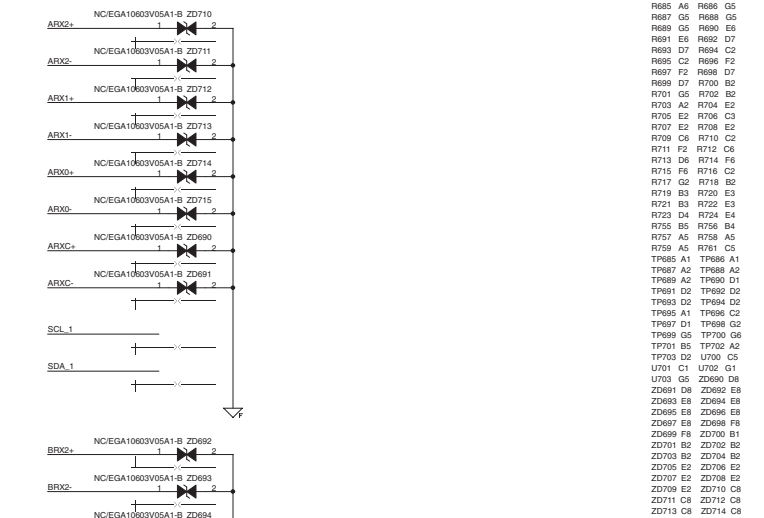
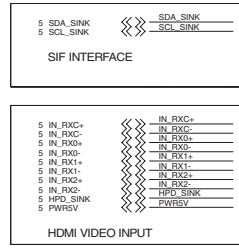
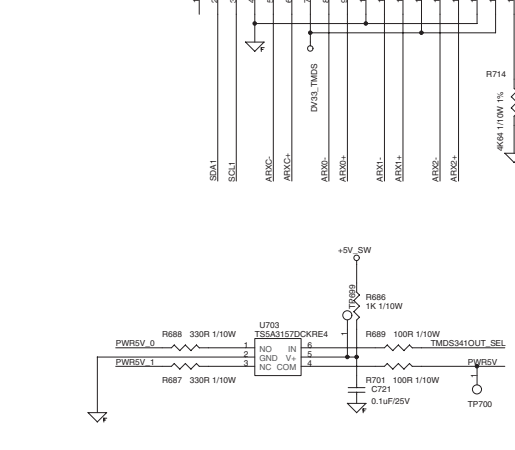
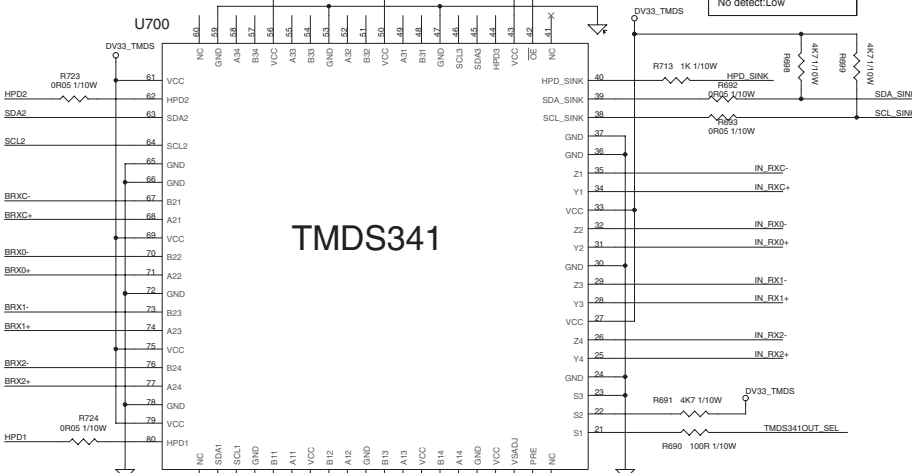
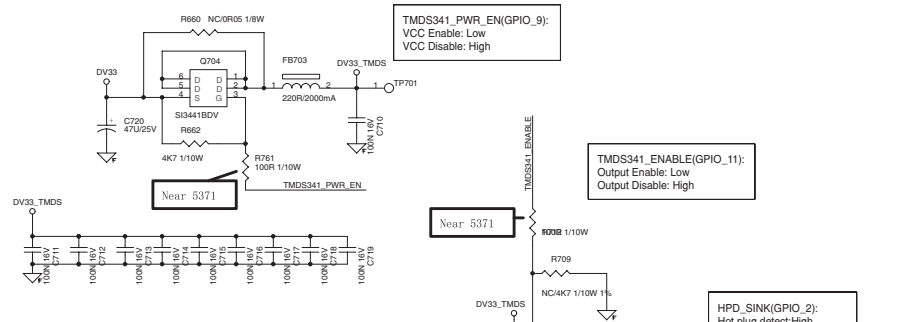
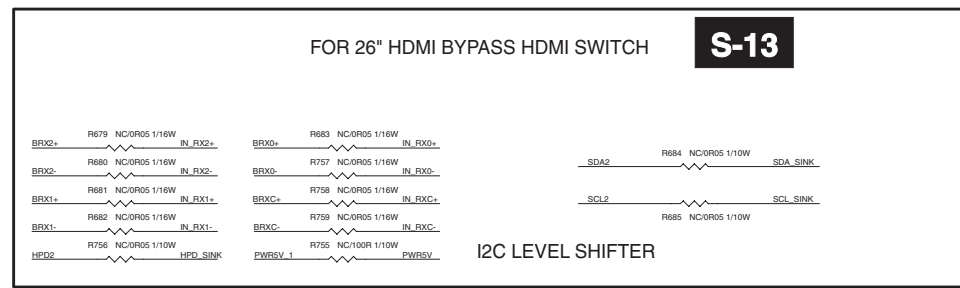
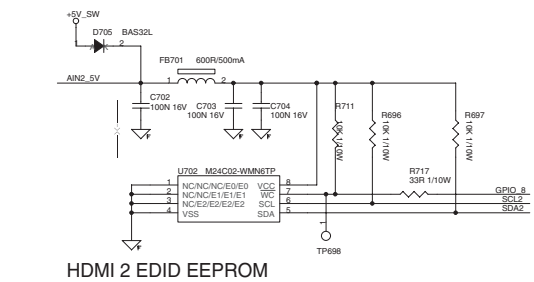
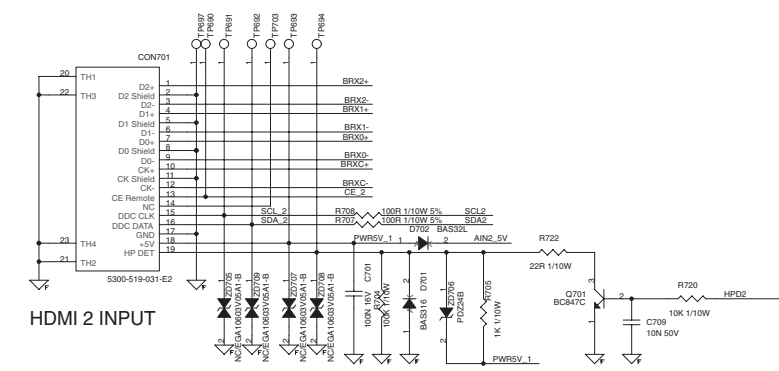
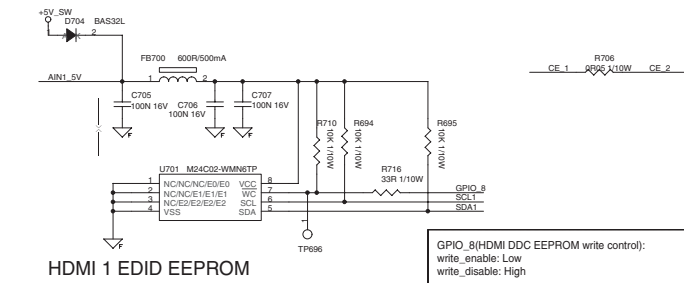
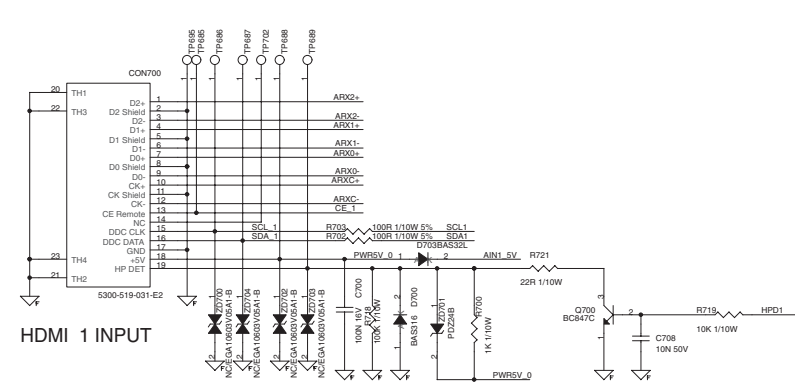
- CN726 B2
- CN727 C1
- C725 G5
- C726 A8
- C727 B8
- C728 B4
- C729 B6
- C730 B8
- C731 B8
- C732 C6
- C733 C8
- C734 C8
- C735 C3
- C736 C3
- C737 D6
- C738 D8
- C739 D3
- C740 D3
- C741 E7
- C742 F7
- C743 F2
- C744 G2
- D725 B4
- D726 A4
- FB725 C3
- FB726 D3
- L725 E7
- L726 E7
- R725 B6
- R726 A7
- R727 B3
- R728 B6
- R729 B7
- R730 B6
- R731 B7
- R732 B7
- R733 C6
- R734 C7
- R735 C6
- R736 C7
- R737 C3
- R738 C4
- R739 D6
- R740 D7
- R741 D3
- R742 D4
- R743 E6
- R744 E7
- R745 E7
- R746 E2
- R747 A3
- R748 F7
- R749 E2
- R750 G7
- R751 F2
- R752 B1
- R753 G7
- R754 G2
- TP725 A2
- TP726 A2
- TP727 A2
- TP728 A2
- TP729 A1
- TP730 A1
- TP731 A1
- TP732 A1
- TP733 A1
- TP734 C2
- TP735 D2
- TP736 A2
- TP737 B3
- TP738 G7
- U725 G6
- ZD725 B3
- ZD726 C2
- ZD727 D2
- ZD728 F2
- ZD729 G2
- ZD730 E6
- ZD731 E6
- ZD732 C6
- ZD733 C6
- ZD734 B6
- ZD735 B3
- ZD736 B1



GPIO\_5(PC DDC EEPROM write control):  
write\_enable: Low  
write\_disable: High

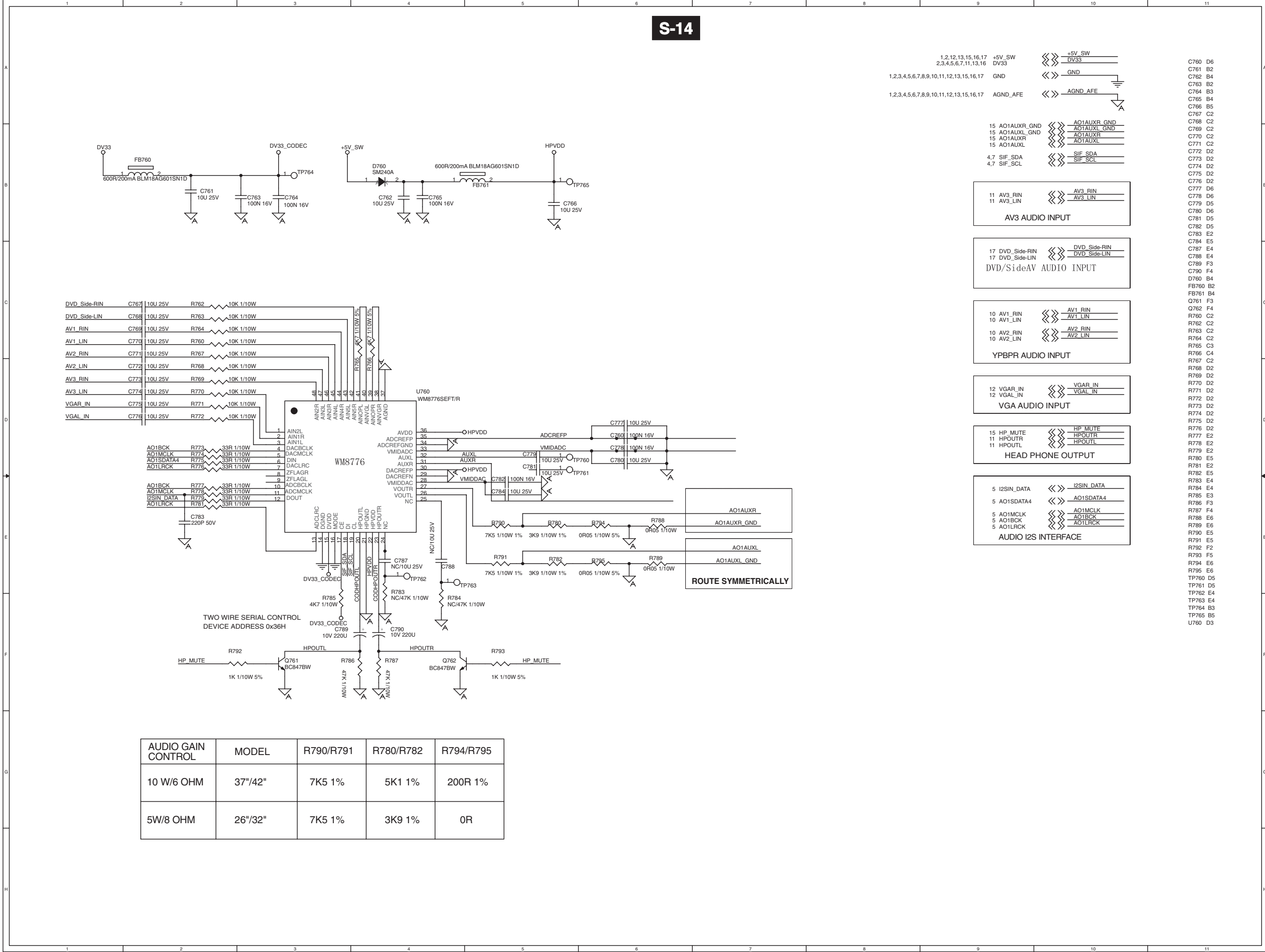


Scaler Board Schematic Diagram-HDMI INPUT



Scaler Board Schematic Diagram-AUDIO CODER

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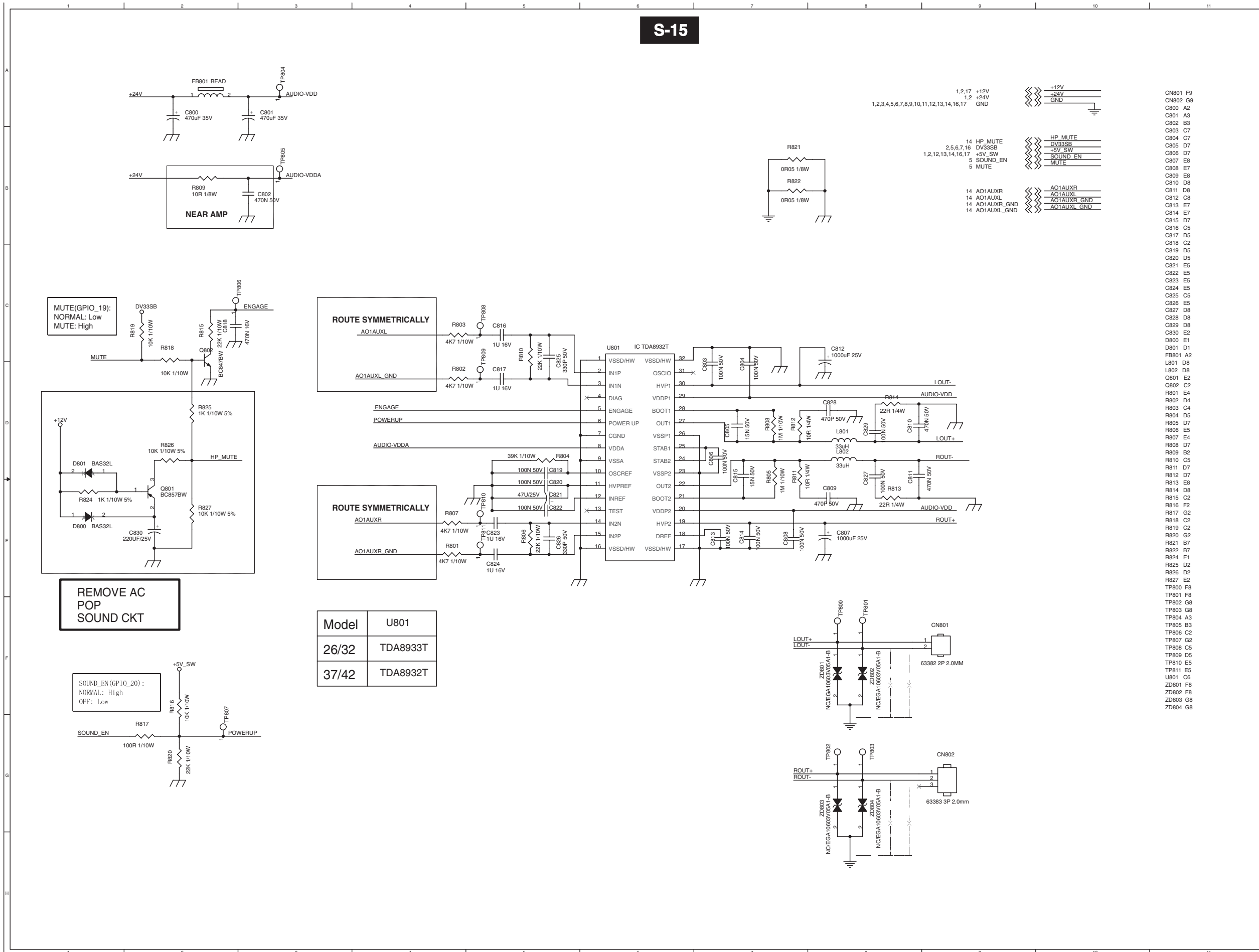
- 1,2,12,13,15,16,17 +5V\_SW
- 2,3,4,5,6,7,11,13,16 DV33
- 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17 GND
- 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16,17 AGND\_AFE
- 15 AO1AUXR\_GND AO1AUXR\_GND
- 15 AO1AUXL\_GND AO1AUXL\_GND
- 15 AO1AUXR AO1AUXR
- 15 AO1AUXL AO1AUXL
- 4,7 SIF\_SDA SIF\_SDA
- 4,7 SIF\_SCL SIF\_SCL
- 11 AV3\_RIN AV3\_RIN
- 11 AV3\_LIN AV3\_LIN
- 17 DVD\_Side-RIN DVD\_Side-RIN
- 17 DVD\_Side-LIN DVD\_Side-LIN
- 10 AV1\_RIN AV1\_RIN
- 10 AV1\_LIN AV1\_LIN
- 10 AV2\_RIN AV2\_RIN
- 10 AV2\_LIN AV2\_LIN
- 12 VGAR\_IN VGAR\_IN
- 12 VGAL\_IN VGAL\_IN
- 15 HP\_MUTE HP\_MUTE
- 11 HP\_OUTR HP\_OUTR
- 11 HP\_OUTL HP\_OUTL
- 5 I2SIN\_DATA I2SIN\_DATA
- 5 AO1SDATA4 AO1SDATA4
- 5 AO1MCLK AO1MCLK
- 5 AO1BCK AO1BCK
- 5 AO1LRCK AO1LRCK

- C760 D6
- C761 B2
- C762 B4
- C763 B2
- C764 B3
- C765 B4
- C766 B5
- C767 C2
- C768 C2
- C769 C2
- C770 C2
- C771 C2
- C772 D2
- C773 D2
- C774 D2
- C775 D2
- C776 D2
- C777 D6
- C778 D6
- C779 D5
- C780 D6
- C781 D5
- C782 D5
- C783 E2
- C784 E5
- C787 E4
- C788 E4
- C789 F3
- C790 F4
- D760 B4
- FB760 B2
- FB761 B4
- Q761 F3
- Q762 F4
- R760 C2
- R762 C2
- R763 C2
- R764 C2
- R765 C3
- R766 C4
- R767 C2
- R768 D2
- R769 D2
- R770 D2
- R771 D2
- R772 D2
- R773 D2
- R774 D2
- R775 D2
- R776 D2
- R777 E2
- R778 E2
- R779 E2
- R780 E5
- R781 E2
- R782 E5
- R783 E4
- R784 E4
- R785 E3
- R786 F3
- R787 F4
- R788 E6
- R789 E6
- R790 E5
- R791 E5
- R792 F2
- R793 F5
- R794 E6
- R795 E6
- TP760 D5
- TP761 D5
- TP762 E4
- TP763 E4
- TP764 B3
- TP765 B5
- U760 D3

AUDIO GAIN CONTROL	MODEL	R790/R791	R780/R782	R794/R795
10 W/6 OHM	37"/42"	7K5 1%	5K1 1%	200R 1%
5W/8 OHM	26"/32"	7K5 1%	3K9 1%	0R

Scaler Board Schematic Diagram-AUDIO AMP

S-15

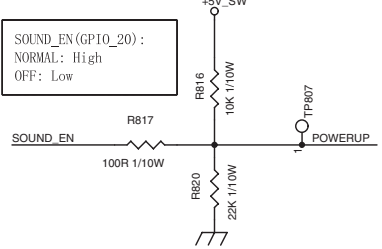
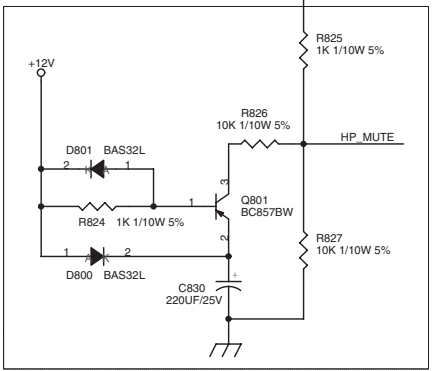
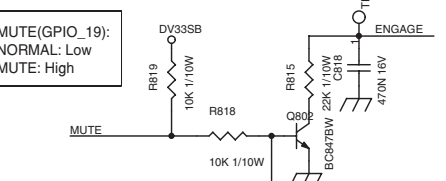


- 1,2,17 +12V
- 1,2 +24V
- 1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17 GND
- 14 HP\_MUTE
- 2,5,6,7,16 DV33SB
- 1,2,12,13,14,16,17 +5V\_SW
- 5 SOUND\_EN
- 5 MUTE
- 14 AO1AUXR
- 14 AO1AUXL
- 14 AO1AUXR\_GND
- 14 AO1AUXL\_GND



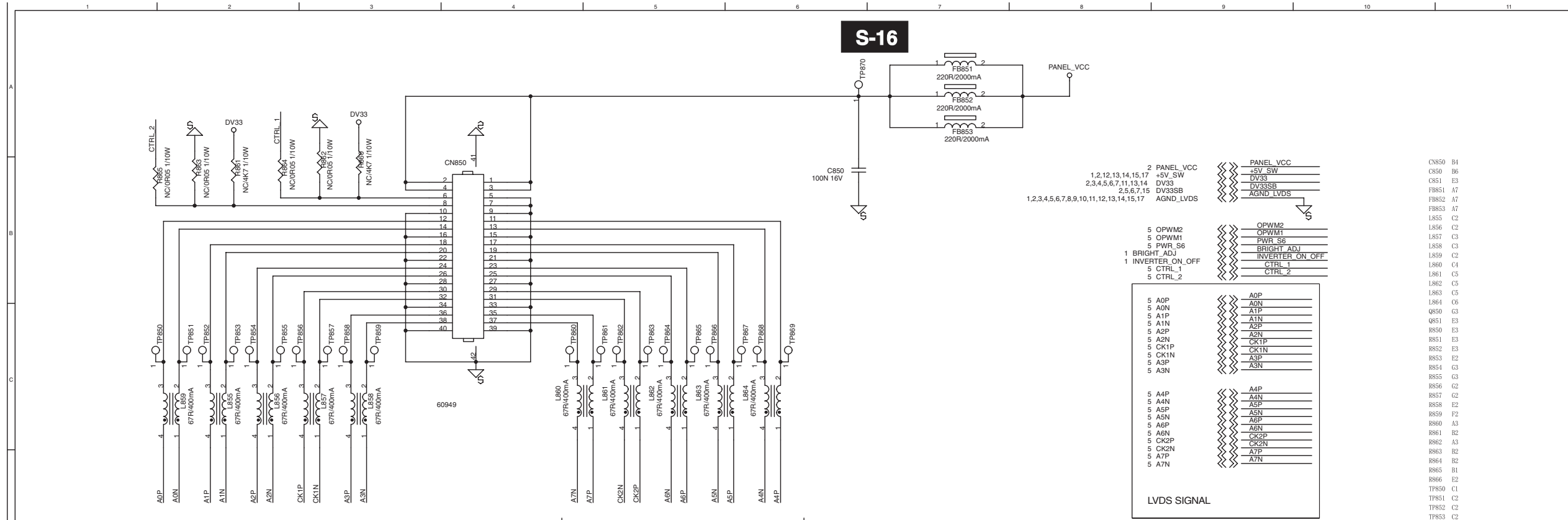
- CN801 F9
- CN802 G9
- C800 A2
- C801 A3
- C802 B3
- C803 C7
- C804 C7
- C805 D7
- C806 D7
- C807 E8
- C808 E7
- C809 E8
- C810 D8
- C811 D8
- C812 C8
- C813 E7
- C814 E7
- C815 D7
- C816 C5
- C817 D5
- C818 C2
- C819 D5
- C820 D5
- C821 E5
- C822 E5
- C823 E5
- C824 E5
- C825 C5
- C826 E5
- C827 D8
- C828 D8
- C829 D8
- C830 E2
- D800 E1
- D801 D1
- FB801 A2
- L801 D8
- L802 D8
- Q801 E2
- Q802 C2
- R801 E4
- R802 D4
- R803 C4
- R804 D5
- R805 D7
- R806 E5
- R807 E4
- R808 D7
- R809 B2
- R810 C5
- R811 D7
- R812 D7
- R813 E8
- R814 D8
- R815 C2
- R816 F2
- R817 G2
- R818 C2
- R819 C2
- R820 G2
- R821 B7
- R822 B7
- R824 E1
- R825 D2
- R826 D2
- R827 E2
- TP800 F8
- TP801 F8
- TP802 G8
- TP803 G8
- TP804 A3
- TP805 B3
- TP806 C2
- TP807 G2
- TP808 C5
- TP809 D5
- TP810 E5
- TP811 E5
- U801 C6
- ZD801 F8
- ZD802 F8
- ZD803 G8
- ZD804 G8

Model	U801
26/32	TDA8933T
37/42	TDA8932T



7. Circuit Diagrams and PWB Layouts

Scaler Board Schematic Diagram-LVDS INPUT



FOR LARGE PANEL(26"/32"/37"/42")

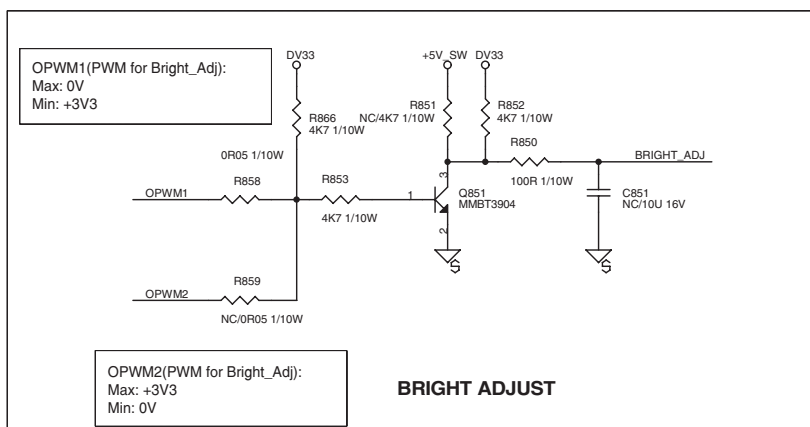
FOR 1080P ONLY

2 PANEL\_VCC  
1,2,12,13,14,15,17 +5V\_SW  
2,3,4,5,6,7,11,13,14 DV33  
2,5,6,7,15 DV33SB  
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,17 AGND\_LVDS

5 OPWM2  
5 OPWM1  
5 PWR\_S6  
1 BRIGHT\_ADJ  
1 INVERTER\_ON\_OFF  
5 CTRL\_1  
5 CTRL\_2

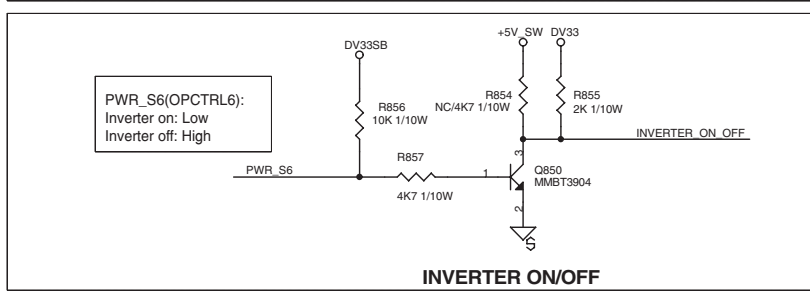
PANEL\_VCC  
+5V\_SW  
DV33  
DV33SB  
AGND\_LVDS  
OPWM2  
OPWM1  
PWR\_S6  
BRIGHT\_ADJ  
INVERTER\_ON\_OFF  
CTRL\_1  
CTRL\_2  
A0P  
A0N  
A1P  
A1N  
A2P  
A2N  
CK1P  
CK1N  
A3P  
A3N  
A4P  
A4N  
A5P  
A5N  
A6P  
A6N  
CK2P  
CK2N  
A7P  
A7N  
LVDS SIGNAL

CN850 B4  
C850 B6  
C851 E3  
FB851 A7  
FB852 A7  
FB853 A7  
L855 C2  
L856 C2  
L857 C3  
L858 C3  
L859 C2  
L860 C1  
L861 C5  
L862 C5  
L863 C5  
L864 C6  
Q850 G3  
Q851 E3  
Q852 E3  
Q853 E2  
Q854 G3  
Q855 G3  
R856 G2  
R857 G2  
R858 E2  
R859 F2  
R860 A3  
R861 B2  
R862 A3  
R863 B2  
R864 B2  
R865 B1  
R866 E2  
TP850 C1  
TP851 C2  
TP852 C2  
TP853 C2  
TP854 C2  
TP855 C2  
TP856 C2  
TP857 C3  
TP858 C3  
TP859 C3  
TP860 C1  
TP861 C5  
TP862 C5  
TP863 C5  
TP864 C5  
TP865 C5  
TP866 C5  
TP867 C6  
TP868 C6  
TP869 C6  
TP870 A6

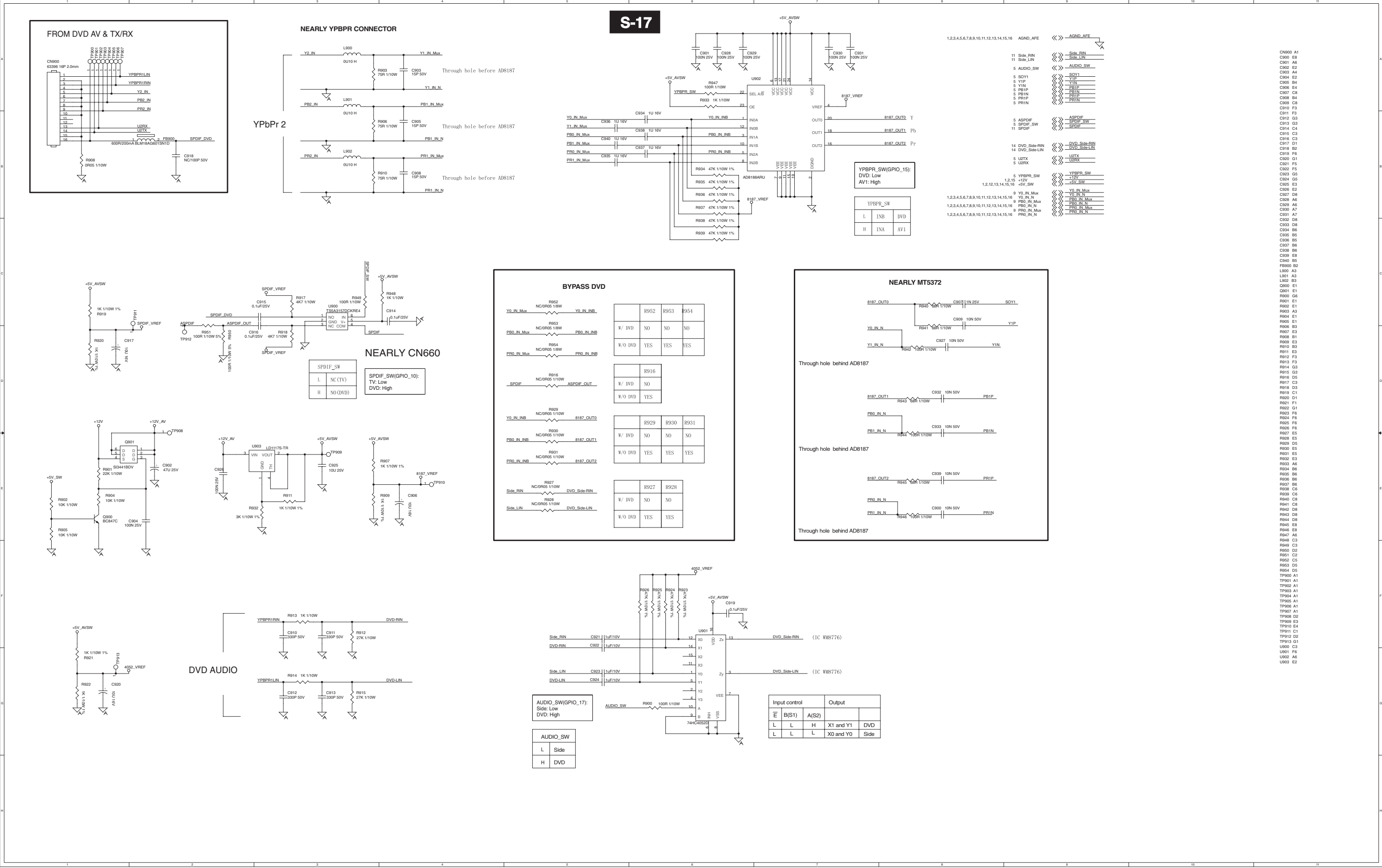


MAX_BRIGHT ADJUST VOLT	R858	R859
3V3	YES	NO
0	NO	YES

Bright_Adjust Control	C851
DC Control	YES
PWM Control LPL 26/32/37/42	NO



Scaler Board Schematic Diagram-DVD Interface

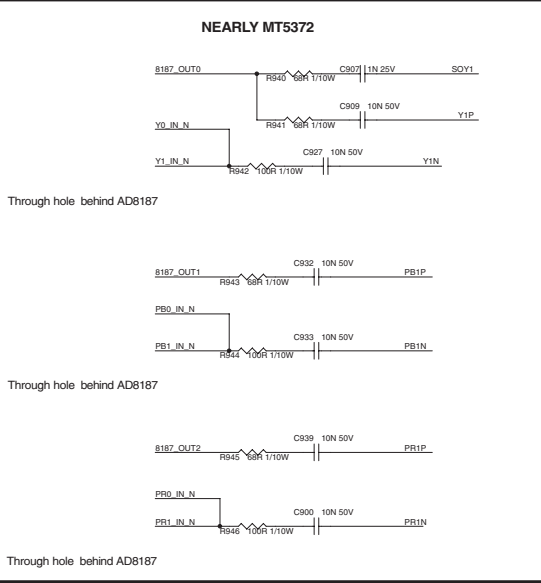
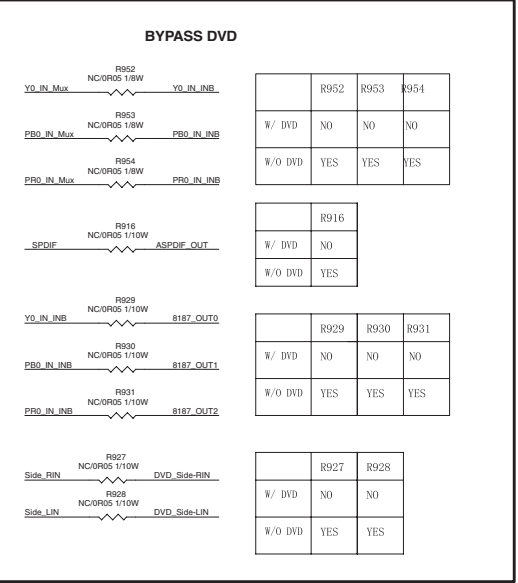


**S-17**

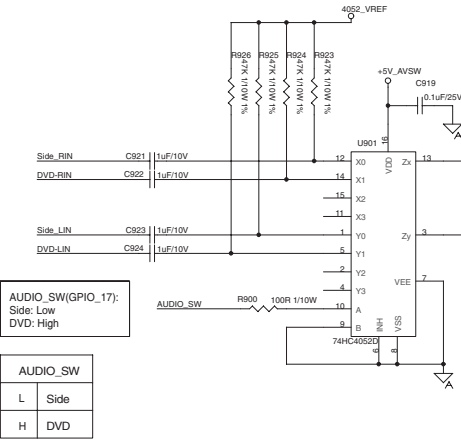
YBPBR\_SW(GPIO\_15):  
DVD: Low  
AV1: High

L	INB	DVD
H	INA	AV1

L	INB	DVD
H	INA	AV1



- |  |              |     |              |
|--|--------------|-----|--------------|
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 | AGND_AFE     | <<> | AGND_AFE     |
| 11                                     | Side_RIN     | <<> | Side_RIN     |
| 11                                     | Side_LIN     | <<> | Side_LIN     |
| 5                                      | AUDIO_SW     | <<> | AUDIO_SW     |
| 5                                      | SOY1         | <<> | SOY1         |
| 5                                      | YIP          | <<> | YIP          |
| 5                                      | YIN          | <<> | YIN          |
| 5                                      | PB1P         | <<> | PB1P         |
| 5                                      | PR1P         | <<> | PR1P         |
| 5                                      | PR1N         | <<> | PR1N         |
| 5                                      | ASPDIF       | <<> | ASPDIF       |
| 5                                      | SPDIF_SW     | <<> | SPDIF_SW     |
| 11                                     | SPDIF        | <<> | SPDIF        |
| 14                                     | DVD_Side-RIN | <<> | DVD_Side-RIN |
| 14                                     | DVD_Side-LIN | <<> | DVD_Side-LIN |
| 5                                      | L2TX         | <<> | L2TX         |
| 5                                      | US2RX        | <<> | US2RX        |
| 5                                      | YBPBR_SW     | <<> | YBPBR_SW     |
| 1,2,15                                 | +12V         | <<> | +12V         |
| 1,2,12,13,14,15,16                     | +5V_SW       | <<> | +5V_SW       |
| 9                                      | Y0_IN_Mux    | <<> | Y0_IN_Mux    |
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 | Y0_IN_N      | <<> | Y0_IN_N      |
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 | PB0_IN_Mux   | <<> | PB0_IN_Mux   |
| 9                                      | PB0_IN_N     | <<> | PB0_IN_N     |
| 9                                      | PR0_IN_Mux   | <<> | PR0_IN_Mux   |
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16 | PR0_IN_N     | <<> | PR0_IN_N     |



- C800 A1
- C900 E8
- C901 A6
- C902 E2
- C903 A4
- C904 E2
- C905 B4
- C906 E4
- C907 D8
- C908 B4
- C909 C8
- C910 F3
- C911 D3
- C912 G3
- C913 G3
- C914 C4
- C915 C3
- C916 C3
- C917 D1
- C918 B2
- C919 F6
- C920 D1
- C921 F5
- C922 F5
- C923 G5
- C924 G5
- C925 E3
- C926 E2
- C927 D8
- C928 A6
- C929 A6
- C930 A7
- C931 A7
- C932 D8
- C933 D8
- C934 B6
- C935 B5
- C936 B5
- C937 B6
- C938 B6
- C939 E8
- C940 B5
- F800 B2
- L900 A3
- L901 A3
- L902 B3
- Q900 E1
- Q901 E1
- R900 D6
- R901 E1
- R902 E1
- R903 A3
- R904 E1
- R905 E1
- R906 B3
- R907 E3
- R908 B1
- R909 E3
- R910 B3
- R911 E3
- R912 F3
- R913 F3
- R914 G3
- R915 G3
- R916 D5
- R917 C3
- R918 D3
- R919 C1
- R920 D1
- R921 F1
- R922 G1
- R923 F6
- R924 F6
- R925 F6
- R926 F6
- R927 E5
- R928 E5
- R929 D5
- R930 E5
- R931 E5
- R932 E3
- R933 A6
- R934 B6
- R935 B6
- R936 B6
- R937 B6
- R938 C6
- R939 C6
- R940 C8
- R941 C8
- R942 D8
- R943 D8
- R944 D8
- R945 E8
- R946 E8
- R947 A6
- R948 C3
- R949 C3
- R950 D2
- R951 C2
- R952 C5
- R953 D5
- R954 D5
- TP900 A1
- TP901 A1
- TP902 A1
- TP903 A1
- TP904 A1
- TP905 A1
- TP906 A1
- TP907 A1
- TP908 D2
- TP909 E3
- TP910 E4
- TP911 C1
- TP912 D2
- TP913 G1
- U900 C3
- U901 F6
- U902 A6
- U903 E2

## Scaler Board Schematic Diagram-PIN STATUS DEFINITION

S-18

## PWR PINS STATUS

PWR	OPWRSB	OPCTRL0	OPCTRL1	OPCTRL2	OPCTRL3	OPCTRL4	OPCTRL5	OPCTRL6	OPCTRL7
Net name	OPWRSB	LED_G	PWR_ON/OFF	MUTE	PWR_S2	STAND_BY	DVD_LED	PWR_S6	LED_A
Function	+5V_SW/+2V6 /+1V2 enable	LED green light drive	POWER key press detect	MUTE enable	Panel_Vcc ON/OFF	Inverter_Vcc ON/OFF	DVD LED green light drive	Inverter ON/OFF	LED amber light drive
Low	Enable <Normal>	Disable <Stand_by>	Yes	Normal	Enable <Normal>	Disable <Stand_by>	Disable <Stand_by>	Enable <Normal>	Enable <Stand_by>
High	Disable <Stand_by>	Enable <Normal>	No	MUTE	Disable <Stand_by>	Enable <Normal>	Enable <Normal>	Disable <Stand_by>	Disable <Normal>

## PWM PINS STATUS

PWM	OPWM0	OPWM1	OPWM2
Net name	OPWM0	OPWM1	OPWM2
Function	27MHz Enable	Bright Adj PWM (Max:3V3)	Bright Adj PWM (Max:0V)
Low	Disable <Stand_by>	Max Brightness	Min Brightness
High	Enable <Normal>	Min Brightness	Max Brightness

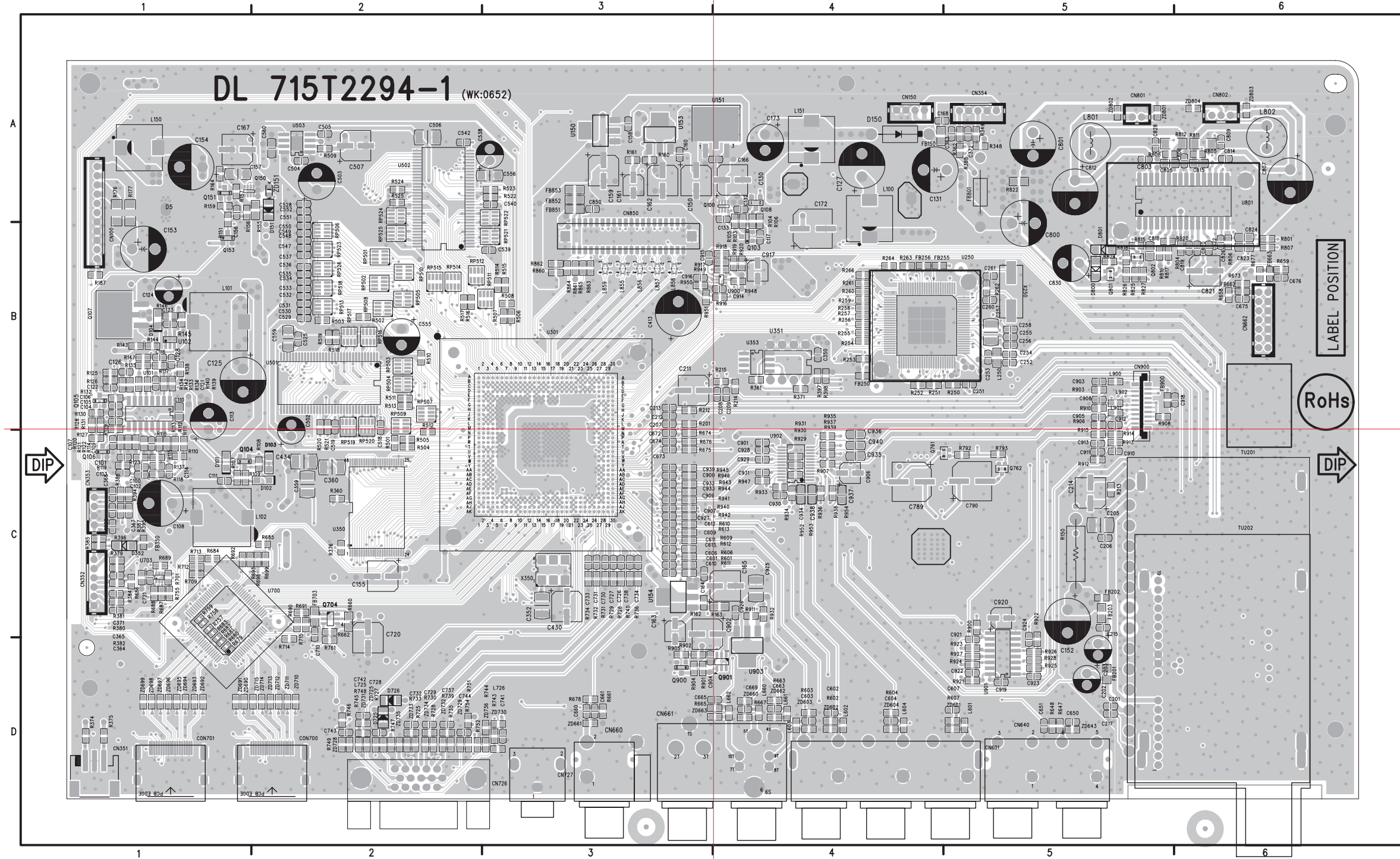
## GPIO PINS STATUS

GPIO	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Net name			HPD_SINK		CTRL_1		CTRL_2	HPDET#		TMDS341_PWR_EN	SPDIF_SW	TMDS341_ENABLE	SVDET1			YPBPR_SW	TMDS341OUT_SEL	AUDIO_SW			SOUND_EN
Function	MTS112 RESET	5371 EEPROM write control	HDMI hot plug detect	MENU KEY press detect	Panel pin special setup	PC EEPROM write control	Panel pin special setup	Headphone plug detect	HDMI EEPROM write control	TMDS341 VCC enable	TV/DVD SPDIF switch	TMDS341 output enable	S_VIDEO detect			AV1/DVD YPBPR switch	HDMI_1/HDMI_2 switch	SIDE/DVD audio switch	TS packet error indicator		SOUND engage
Low	Active	Enable	No	Yes		Enable		No	Enable	Enable	TV	Enable	Yes			DVD	HDMI_2	SIDE			OFF
High	Normal	Disable	Yes	No		Disable		Yes	Disable	Disable	DVD	Disable	No			AV1	HDMI_1	DVD			Normal

## IR PINS STATUS

IR	OIRI	OIRO
Net name	RC6	
Function	Remote control RC6 code input	
Low	Disable <Stand_by>	
High	Enable <Normal>	

Scaler Board Layout



C100	C1	C364	C1	C734	C3	CN601	D4	Q762	C5	R260	B4	R675	C3	R861	B3	RF519	B2
C101	C1	C365	C1	C735	B2	CN610	D4	Q801	B5	R261	B4	R676	C3	R862	B3	RF520	C2
C102	C1	C366	C1	C736	C3	CN620	D3	Q802	B5	R262	B5	R677	B6	R863	B3	RF521	B3
C103	C1	C367	C1	C737	D3	CN631	D4	Q900	D3	R263	B4	R678	D3	R864	B3	RF522	B3
C104	B1	C368	C1	C738	B2	CN642	B6	Q901	D4	R264	B4	R679	D1	R865	B3	RF523	B2
C105	B1	C371	C1	C743	D2	CN726	D2	R103	A4	R266	B4	R680	D1	R900	C5	RF524	A2
C106	B1	C372	A5	C744	B2	CN727	B3	R104	A4	R268	B4	R681	D1	R901	D3	RF525	B2
C107	C1	C113	B3	C789	C4	CN801	A5	R105	A4	R349	A5	R682	D1	R902	D3	RF526	B2
C108	C1	C430	C2	C790	C5	CN850	B3	R106	B4	R360	C2	R683	C1	R903	B5	TF201	D6
C109	C1	C434	C2	C790	C5	CN850	B3	R107	C1	R361	B4	R684	C1	R904	B3	TF202	B1
C110	B1	C502	C2	C801	A5	CN900	B5	R108	C2	R362	A5	R685	C2	R905	D3	U101	B1
C111	C1	C503	A2	C802	A5	CN900	D2	R109	C1	R371	B4	R686	C1	R906	B5	U102	B1
C113	B1	C504	A2	C805	A5	CN901	D1	R110	C1	R374	D1	R687	C1	R907	C4	U150	A3
C114	C1	C505	A2	C806	A6	D101	C1	R111	C1	R375	B1	R688	C1	R908	B5	U151	A4
C116	B1	C506	A2	C807	A6	D102	C2	R112	C1	R376	C2	R689	C1	R910	B5	U153	A3
C117	B4	C507	A2	C809	A6	D103	C2	R113	C1	R379	C1	R690	C2	R911	C1	U154	C3
C118	B1	C518	B2	C812	A5	D104	B1	R114	C1	R380	C1	R691	C3	R912	C1	U200	B4
C122	B1	C519	B2	C814	A6	D150	A4	R115	C1	R381	C1	R692	C1	R913	C5	U301	C3
C123	B1	C522	A5	C815	A6	D151	A2	R116	C1	R382	C1	R693	C1	R914	B5	U302	B1
C124	B1	C528	A2	C818	B5	D352	C1	R117	B1	R384	C1	R694	C2	R915	C5	U351	B4
C125	B1	C529	B2	C819	B6	D725	D2	R118	C1	R385	C1	R695	C2	R916	B4	U352	B4
C126	B1	C530	B2	C820	B6	D726	D2	R119	C1	R386	C1	R701	C1	R917	B1	U301	B2
C127	A4	C531	B2	C821	B6	D800	B5	R120	C1	R387	C1	R709	C1	R918	B4	U502	A2
C128	B1	C532	B2	C822	B6	D801	B5	R121	C1	R388	A5	R712	C1	R919	B1	U503	A2
C130	A4	C533	B2	C823	B6	F8150	A4	R122	C1	R394	C1	R713	C1	R920	B4	U700	C1
C131	A4	C534	B2	C824	B6	F8201	B5	R123	C1	R395	C1	R714	D2	R921	D5	U703	C1
C132	A4	C535	B2	C826	B6	F8202	C5	R125	C1	R396	C1	R715	D2	R922	D5	U801	A6
C133	A4	C536	B2	C828	A5	F8203	B4	R126	B4	R397	B4	R725	D2	R923	D5	U900	B4
C130	A3	C537	B2	C830	C3	F8250	B4	R127	C1	R398	B4	R726	C3	R924	D5	U901	D5
C132	C5	C538	A3	C850	A3	F8255	B4	R128	B1	R501	C2	R727	D2	R925	D5	U902	C4
C133	B1	C539	B3	C900	C3	F8256	B4	R129	B1	R502	B2	R728	D2	R926	D5	U903	D4
C134	A1	C540	A3	C901	C4	F8350	C1	R130	B1	R503	B2	R729	C3	R927	D5	U904	B5
C135	C1	C542	A2	C902	C3	F8662	B6	R131	B1	R504	C2	R730	D2	R928	D5	U905	C3
C136	A1	C547	B2	C903	B5	F8663	B6	R132	B1	R505	C2	R731	C3	R929	A4	Z0151	A2
C137	A1	C548	B2	C904	D3	F8703	C2	R133	B1	R506	B3	R732	C3	R930	C4	Z0601	D5
C138	A3	C549	B2	C905	B5	F8801	B5	R134	B1	R507	B3	R733	D2	R931	C4	Z0602	B4
C139	A3	C550	B2	C906	C4	F8851	A3	R135	B1	R508	B3	R734	C3	R932	C4	Z0603	D4
C140	A3	C551	A2	C907	C3	F8900	B5	R136	B1	R509	A2	R735	D2	R933	C4	Z0604	B4
C161	A3	C552	A2	C908	B5	F8953	A3	R137	C1	R510	B2	R736	C3	R934	C4	Z0643	D5
C162	A3	C555	B2	C909	C3	F8990	B5	R138	B1	R511	B2	R739	D2	R935	C4	Z0640	B4
C163	C3	C556	A3	C910	C3	L100	A4	R139	B1	R512	C2	R740	C3	R936	C1	Z0641	D3
C164	C3	C559	B2	C911	C5	L101	B1	R140	B1	R513	B2	R743	D3	R937	C1	Z0662	D4
C165	A4	C560	A2	C912	B5	L102	C1	R142	B1	R514	C3	R744	D3	R938	C1	Z0663	C3
C166	A4	C601	C3	C913	C5	L150	A1	R143	B1	R515	B3	R745	D2	R939	C1	Z0690	D1
C167	A1	C602	D4	C914	B4	L151	A4	R144	B1	R516	B2	R746	D2	R940	C3	Z0691	D1
C168	A4	C603	D4	C915	B3	L250	B5	R145	B1	R517	B2	R747	D2	R941	C3	Z0692	D1
C172	A4	C604	D4	C916	B3	L601	D5	R146	B4	R518	B2	R748	D2	R942	C3	Z0693	D1
C173	A4	C606	C3	C917	B4	L602	D4	R147	B1	R519	B2	R749	D2	R943	C3	Z0694	D1
C201	D5	C607	D5	C918	B6	L603	D4	R150	C5	R520	C2	R751	D2	R944	C3	Z0695	D1
C202	B5	C608	C3	C919	B5	L604	D4	R151	B1	R521	C2	R752	D2	R945	C3	Z0696	D1
C203	D5	C610	C3	C920	C5	L660	D4	R155	A2	R522	A3	R754	D2	R946	C3	Z0697	D1
C205	C5	C611	C3	C921	B5	L661	D4	R156	A1	R523	A3	R755	C1	R947	C4	Z0698	D1
C206	C5	C612	C3	C922	D5	L662	D4	R157	A1	R524	A2	R757	C1	R948	B4	Z0699	D1
C207	B3	C613	C3	C923	D5	L725	D2	R159	A1	R525	A2	R758	C1	R949	B4	Z0710	D2
C208	B4	C650	B5	C924	C5	L726	D3	R160	A3	R601	C3	R759	C1	R950	B5	Z0711	D2
C209	B4	C651	D5	C925	C4	L801	A5	R161	A3	R602	D4	R761	D2	R951	B3	Z0712	D2
C211	B3	C660	D3	C926	C4	L805	A6	R162	C3	R603	D4	R762	C1	R952	C4	Z0713	D2
C212	B3	C661	D3	C927	C3	L855	B3	R163	A3	R604	D4	R763	C5	R953	C1	Z0714	D2
C213	B3	C663	D4	C928	C4	L856	B3	R164	A1	R606	C3	R801	B6	R954	C4	Z0715	D2
C214	C5	C665	D4	C929	C4	L857	B3	R176	A1	R607	D5	R804	B6	R9501	B2	Z0725	D2
C215	C5	C669	D4	C930	C4	L858	B3	R177	A1	R609	C3	R805	A6	R9502	B2	Z0726	D2
C217	B5	C672	C3	C931	C4	L859	B3	R187	B1	R610	C3	R806	B6	R9503	B2	Z0729	D2
C251	B5	C673	C3	C932	C3	L900	B5	R201	B3	R611	C3	R807	B6	R9504	B2	Z0730	D3
C252	B5	C674	C3	C933	C3	L901	B5	R212	B3	R612	C3	R808	A5	R9505	B2	Z0731	D2
C253	B5	C675	B6	C934	C4	L902	B5	R213	C5	R613	C3	R811	A6	R9506	B2	Z0732	D2
C254	B5	C676	B6	C935	C4	L904	B4	R214	B4	R647	D5	R812	A5	R9507	B2	Z0733	D2
C255	B5	C710	C2	C938	C4	Q103	B4	R215	B4	R648	B5	R815	D5	R9508	B2	Z0734	D2
C256	B5	C720	D2	C937	C4	Q104	C1	R216	B5	R658	B6	R816	B5	R9509	C2	Z0735	D2
C257	B5	C721	C1	C938	C4	Q105	B4	R215	B4	R659	B6	R817	B5	R9510	B2	Z0736	D5
C258	B5	C726	C3	C939	C3	Q106	C1	R252	B4	R660	C2	R818	B5	R9511	B2	Z0801	A5
C260	B5	C727	C3	C940	C4	Q107	B1	R253	B4	R661	C2	R820	B5	R9512	B2	Z0802	A5
C261	B5	C728	D2	C941	A1	Q108	A4	R254	B4	R662	C2	R822	A5	R9513	B2	Z0803	A6
C262	B5	C729	D2	C942	A1	Q150	A1	R255	B4	R663	D4	R824	B5	R9514	B2	Z0804	A6
C263	C2	C730	C3	CN351	C1	Q151	A1	R256	B4	R665	D4	R825	B5	R9515	B2	Z0805	B2
C269	C2	C731	C3	CN352	C1	Q153	B1	R257	B4	R667	D4	R826	B5	R9516	B2	Z0806	B2
C360	C2	C732	C2	CN353	C1	Q704	C2	R258	B4	R673	B6	R827	B5	R9517	B2	Z0807	B2
C363	A5	C733	C3	CN354	A5	Q761	C5	R259	B4	R674	C3	R860	B3	RF518	B2	Z0808	B2

7. Circuit Diagrams and PWB Layouts

Scaler Board Layout-(TOP LEFT)

1

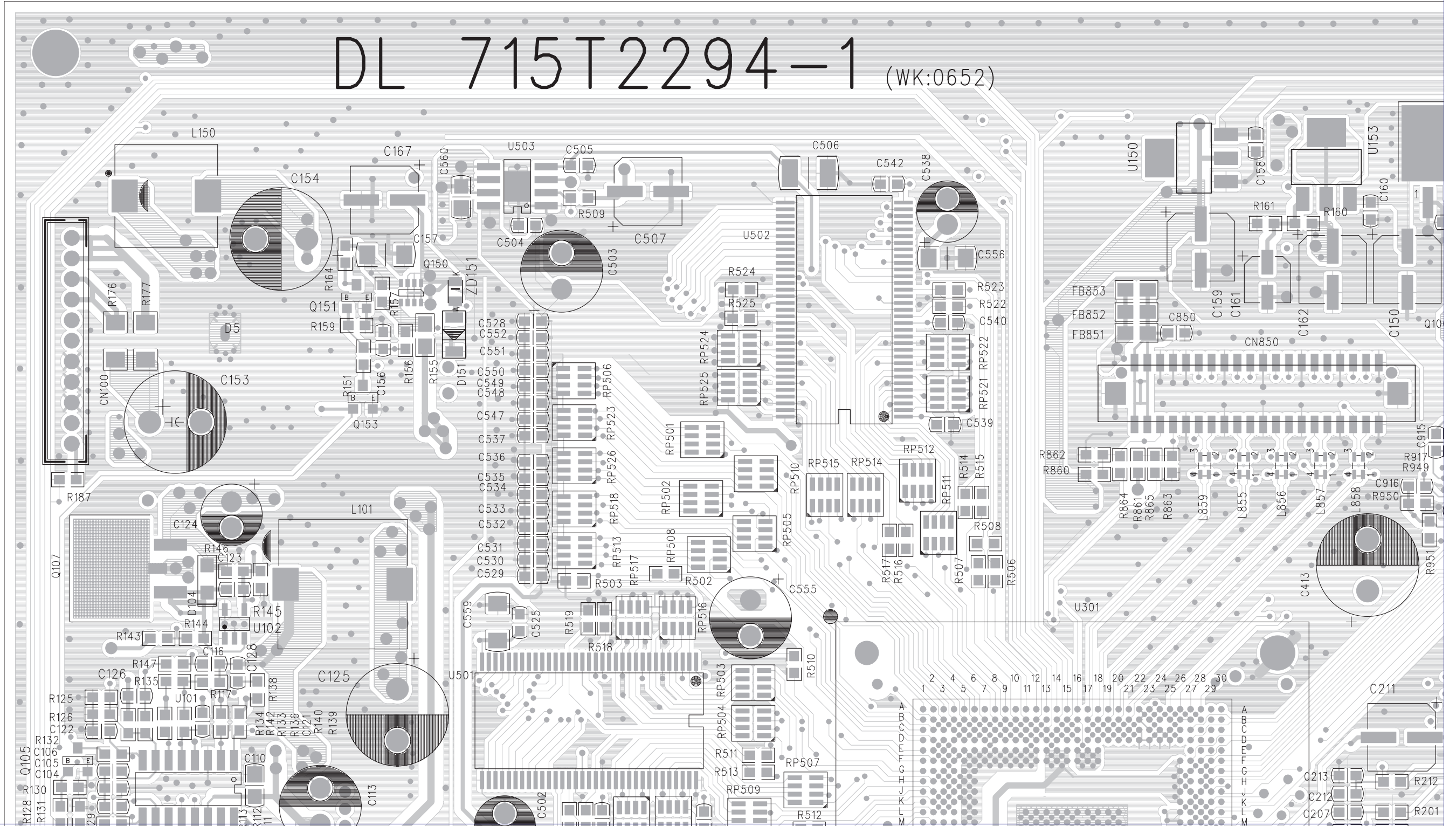
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3

DL 715T2294-1 (WK:0652)

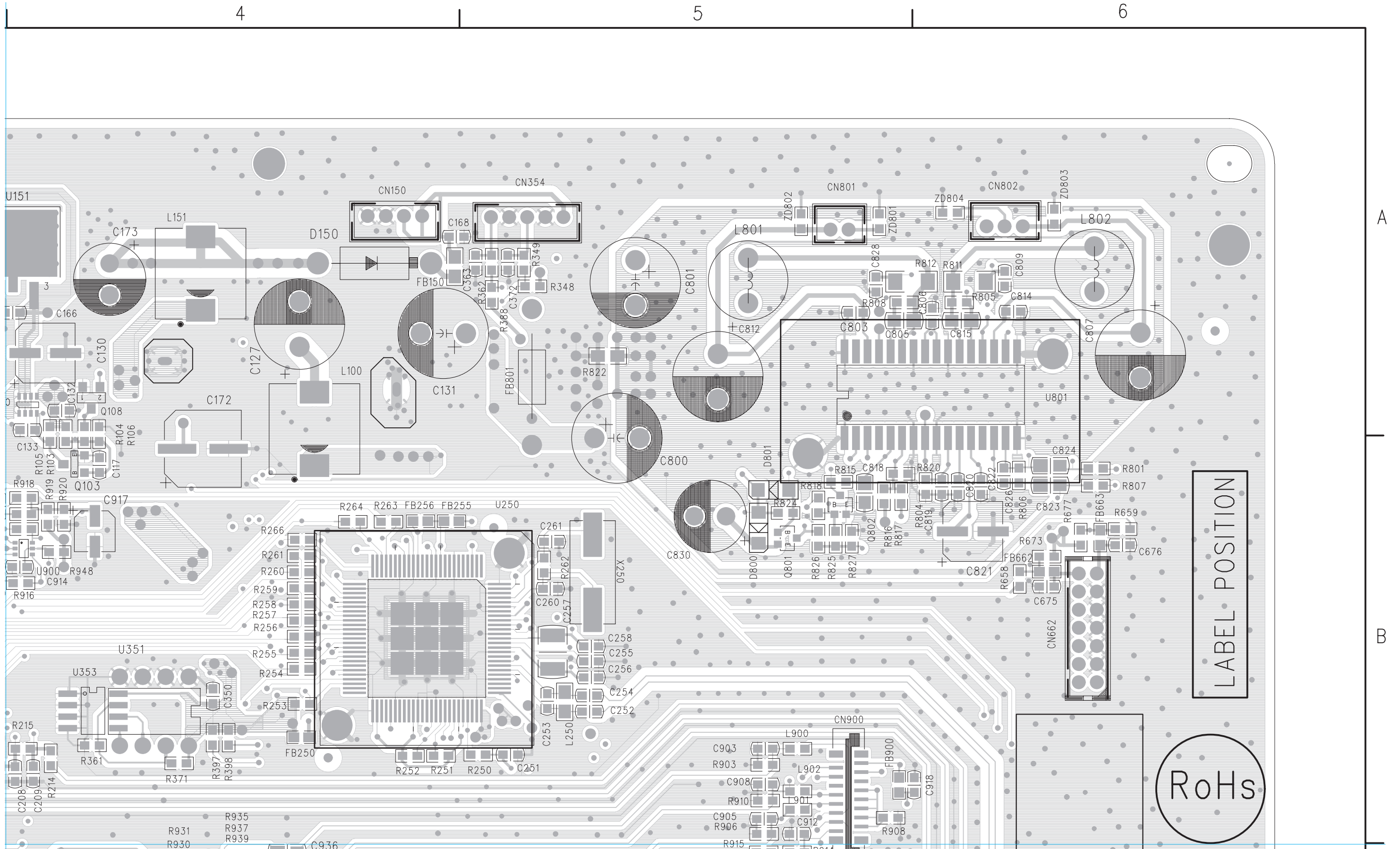
A

B



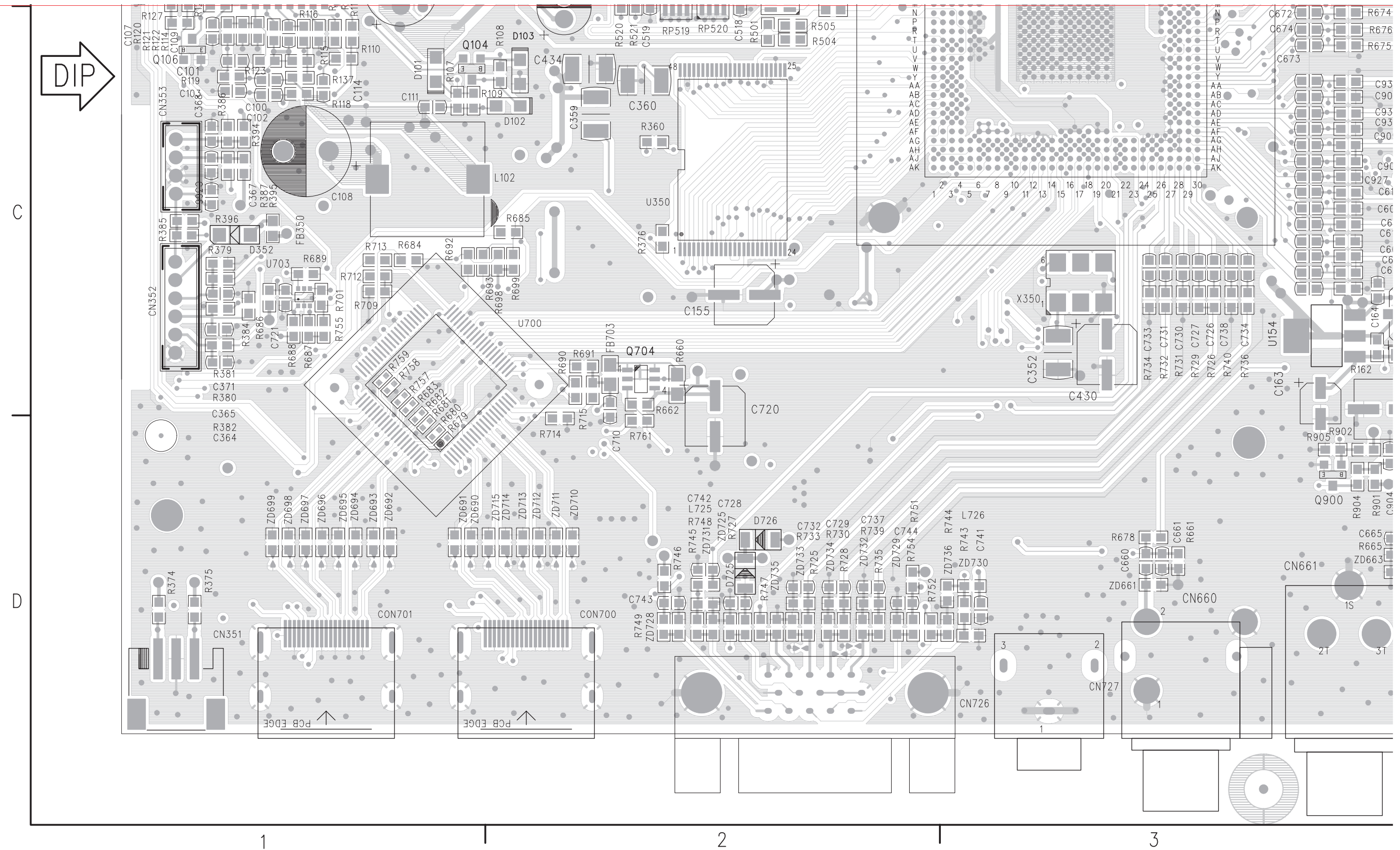


Printer Board Layout(TOP RIGHT)

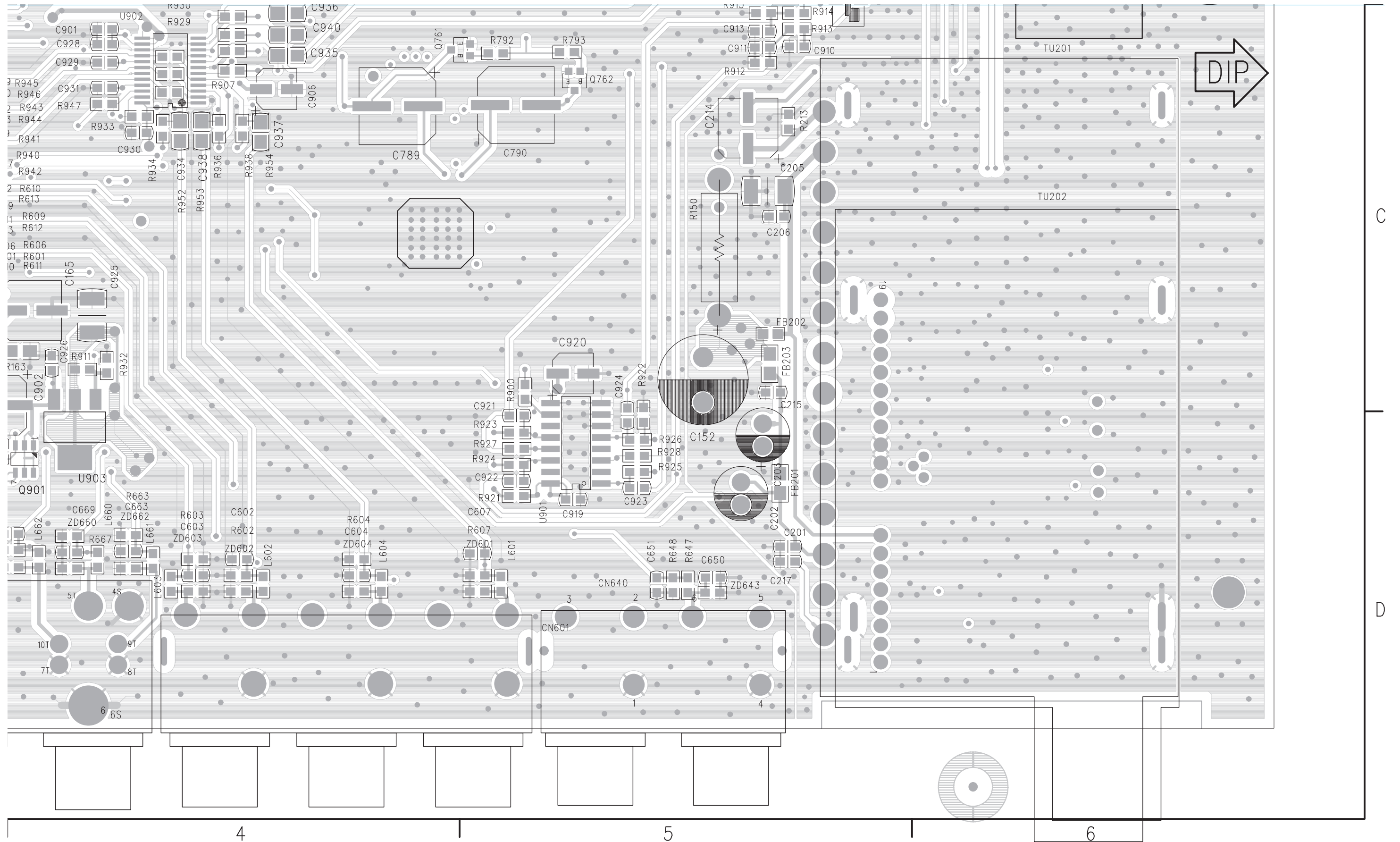


# 7. Circuit Diagrams and PWB Layouts

## Scaler Board Layout-(BOTTOM LEFT)



Scaler Board Layout(BOTTOM RIGHT)





Scaler Board Layout-2(TOP LEFT)

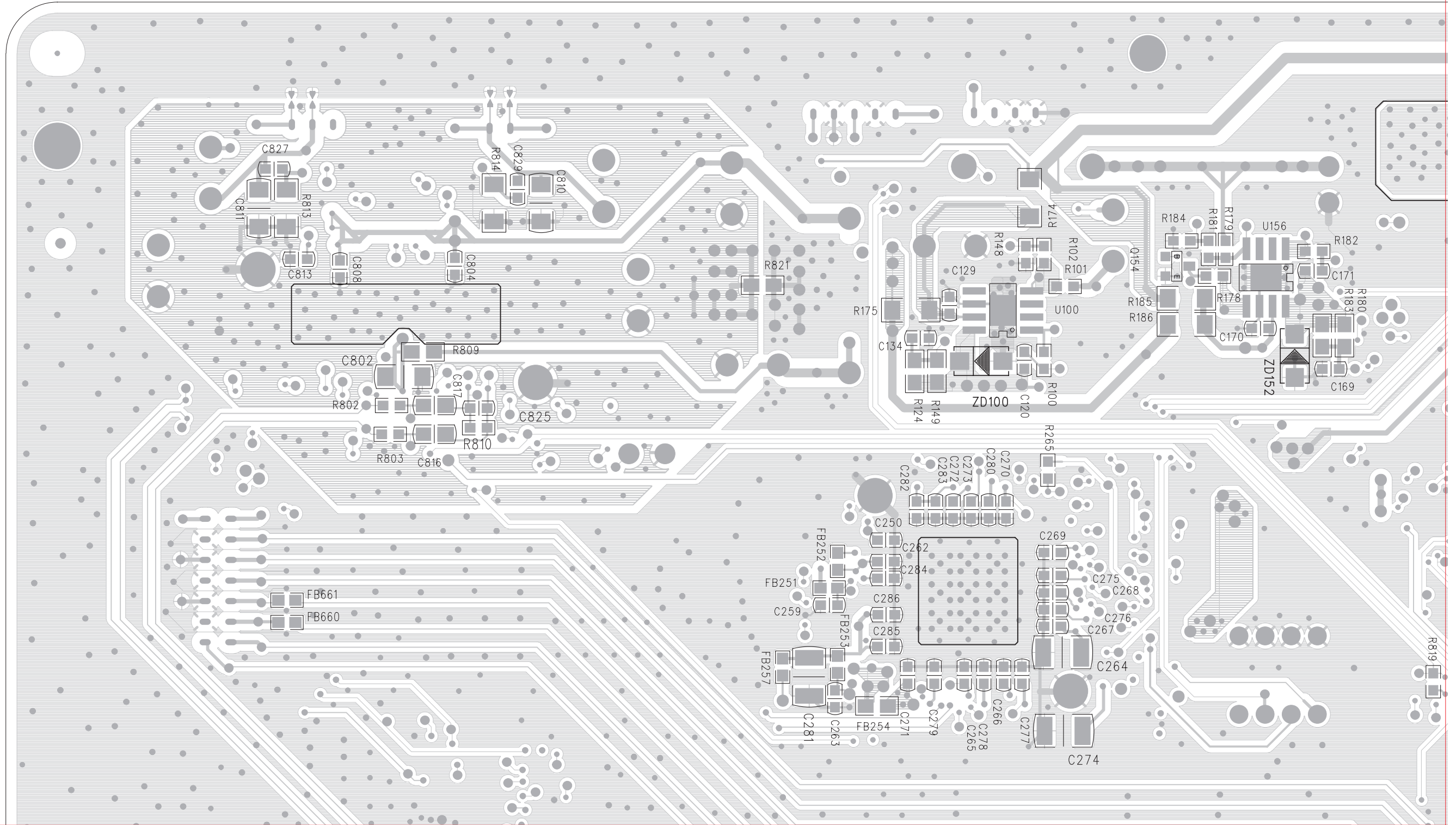
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2

4

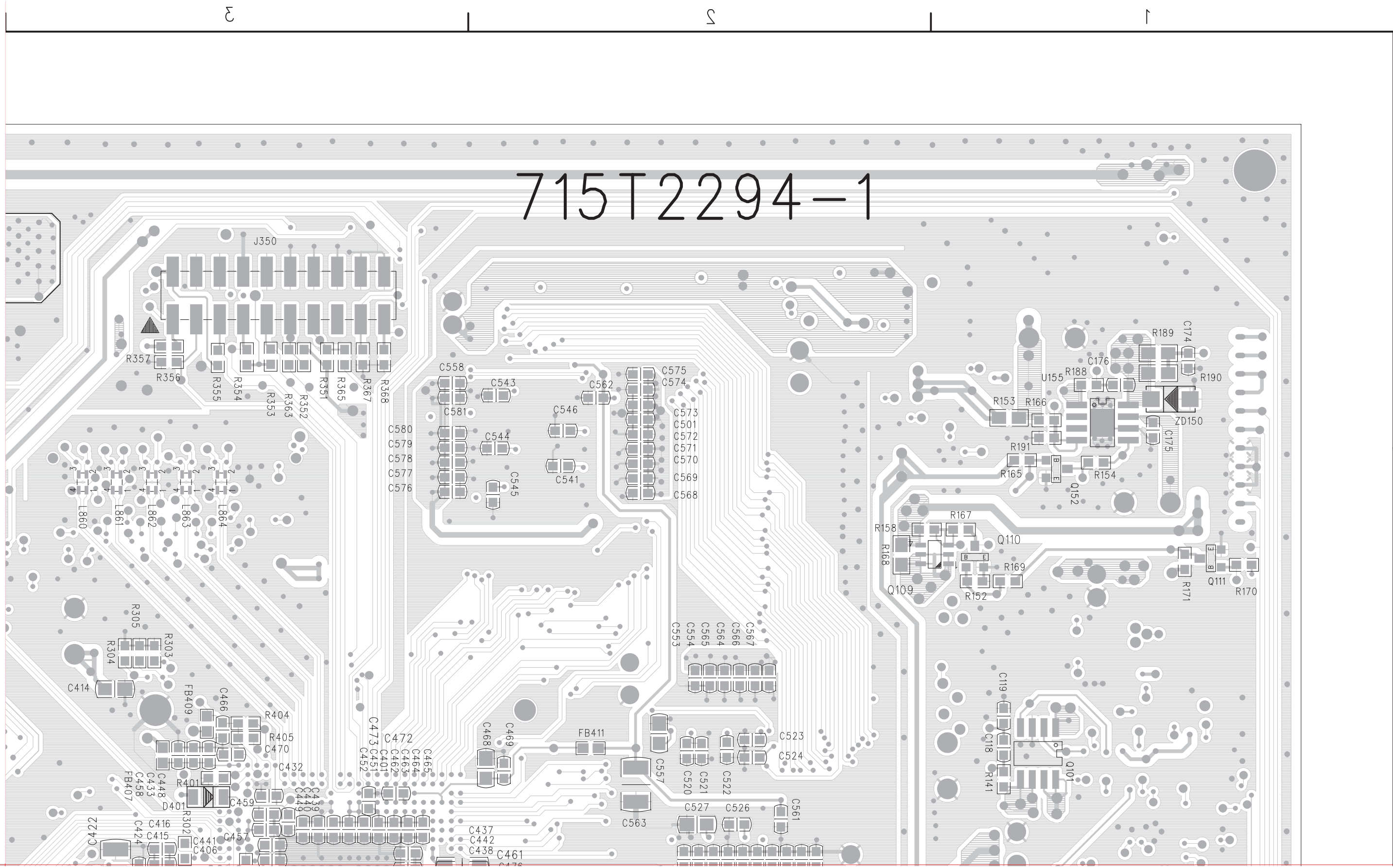
A

B

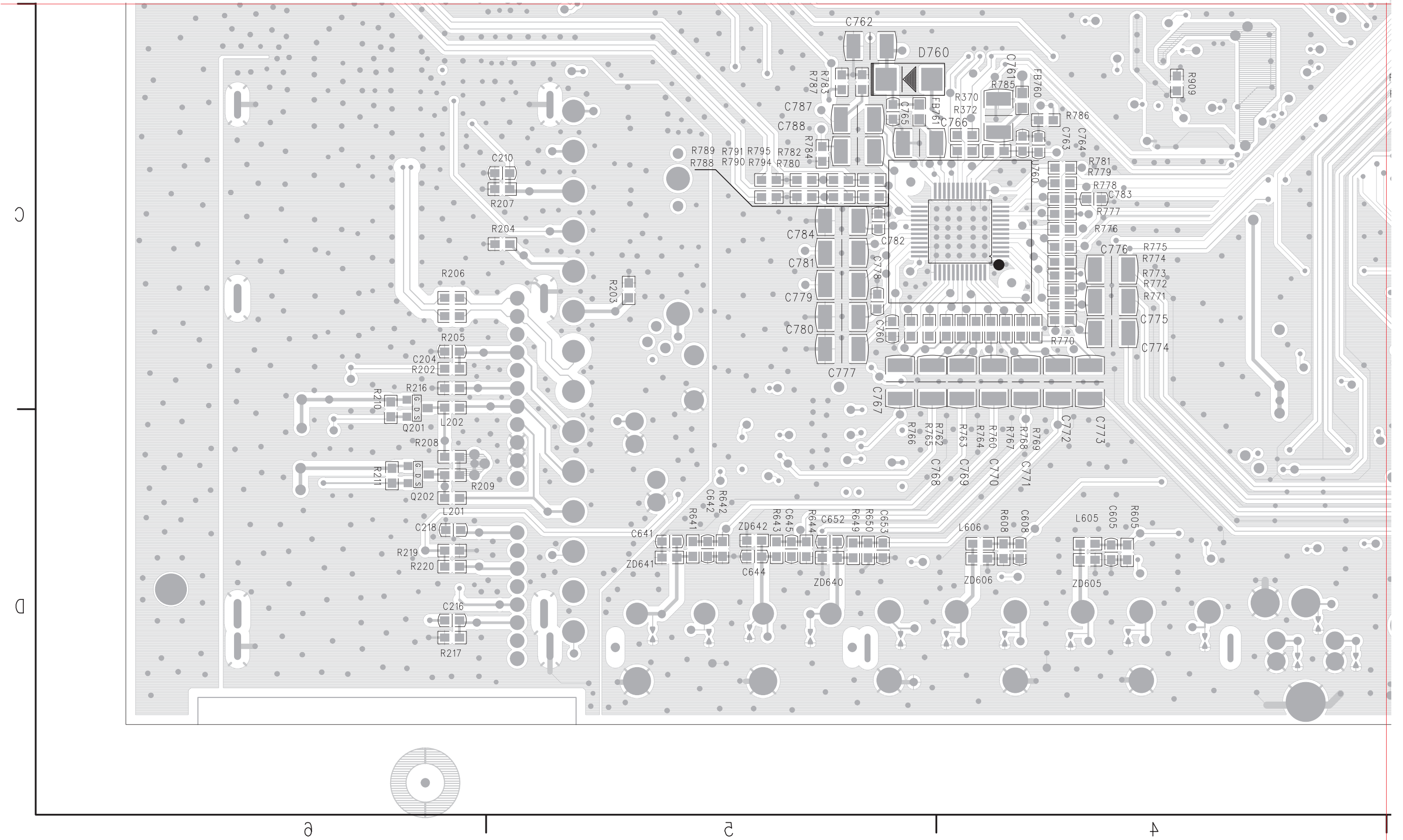


# 7. Circuit Diagrams and PWB Layouts

## Scaler Board Layout-2(TOP RIGHT)

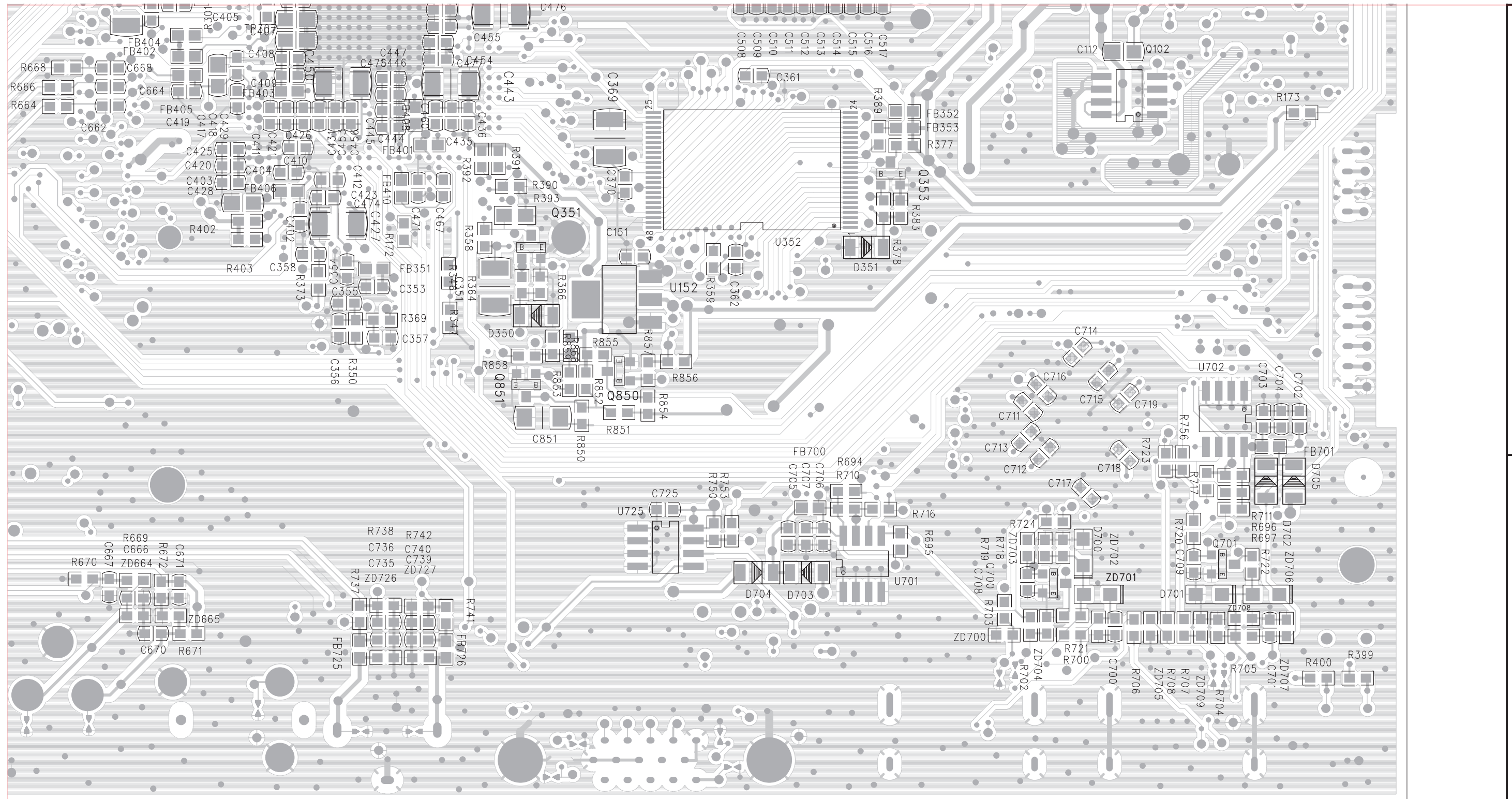


Scaler Board Layout-2(BUTTOM LEFT)



### 7. Circuit Diagrams and PWB Layouts

Scaler Board Layout-2(BOTTOM RIGHT)



2

5

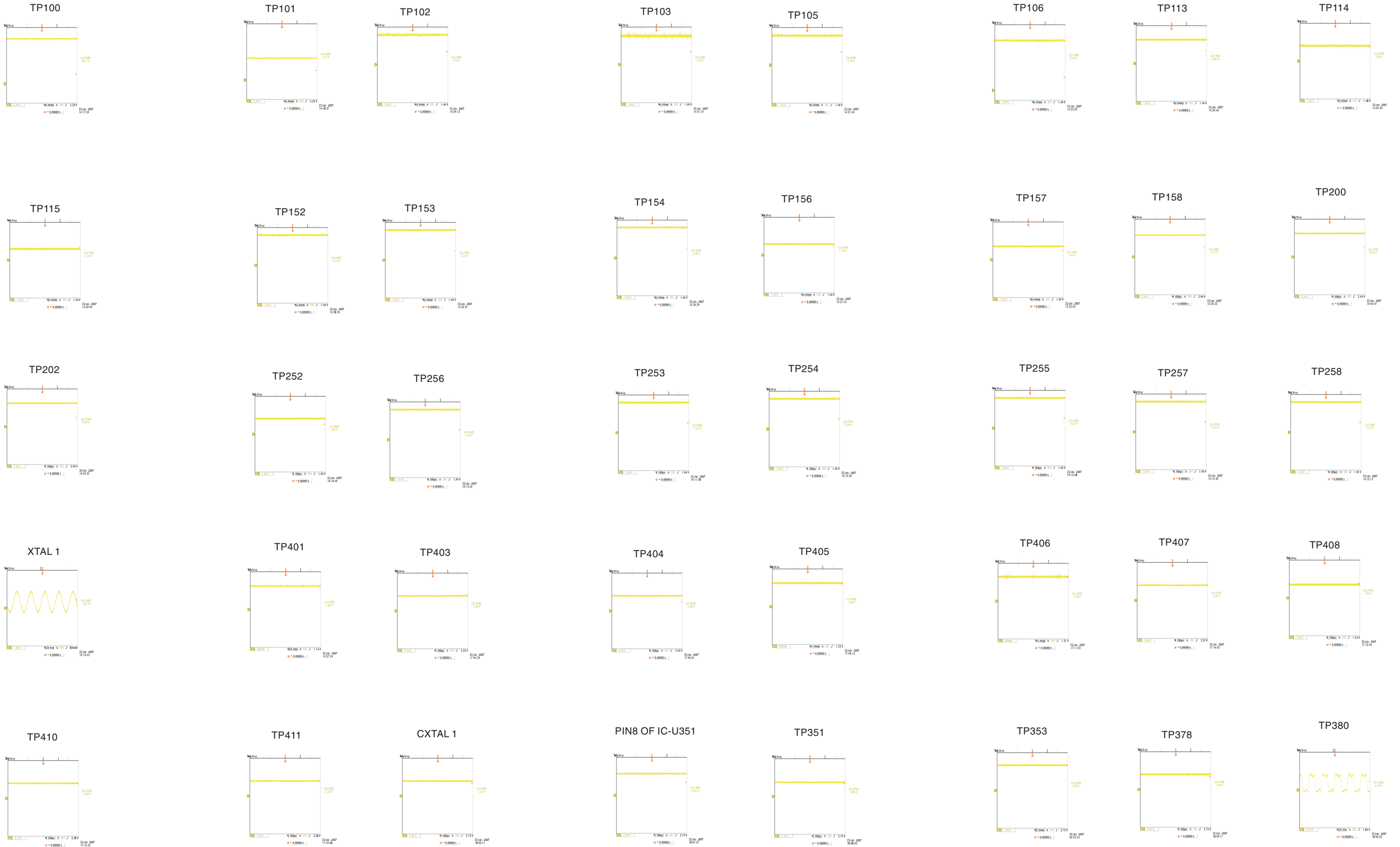
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C

D

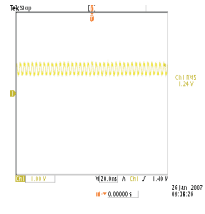


Test Point

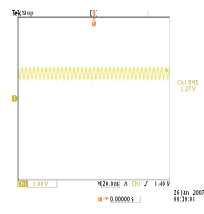


# 7. Circuit Diagrams and PWB Layouts

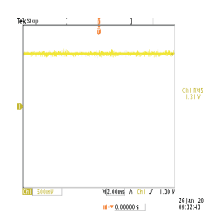
MEM\_CLKA



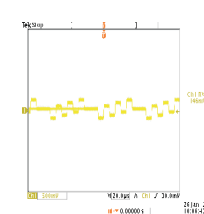
MEM\_CLKB



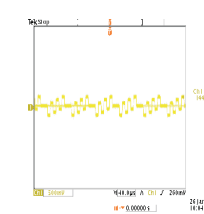
TP500



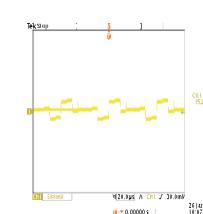
PB0\_IN



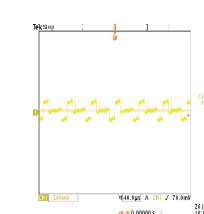
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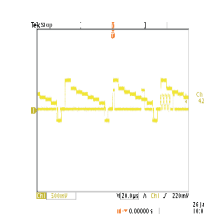
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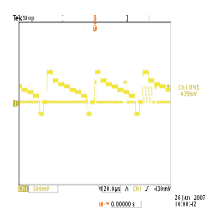
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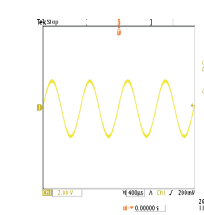
Y0\_IN



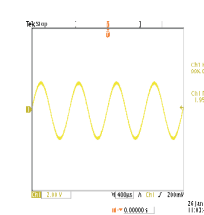
Y1\_IN



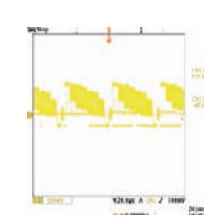
AV1\_RIN



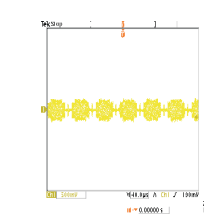
AV2\_LIN



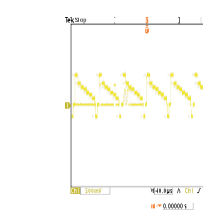
AV3\_CVBS\_IN



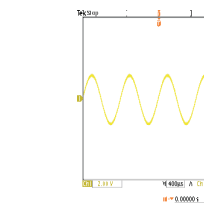
AV3\_SC\_IN



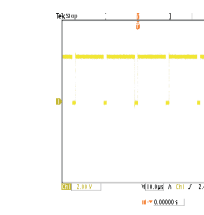
AV3\_SY\_IN



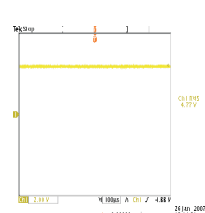
AV3\_AUDIO-IN



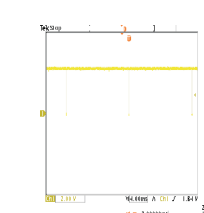
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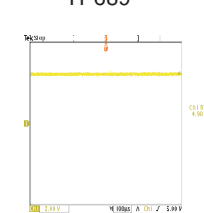
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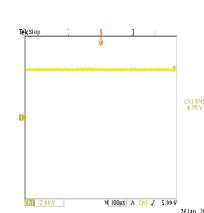
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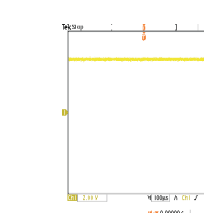
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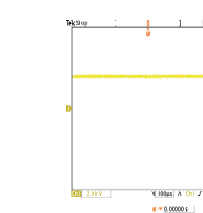
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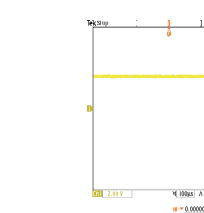
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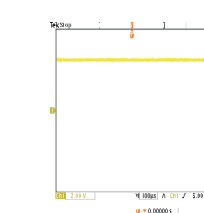
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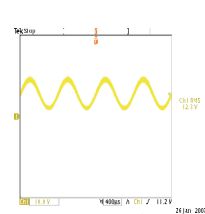
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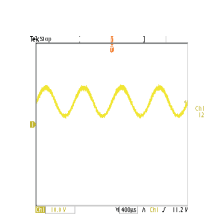
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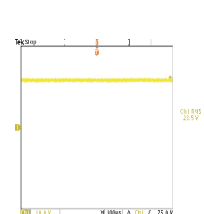
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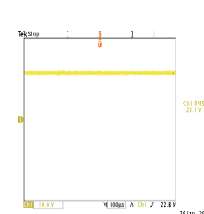
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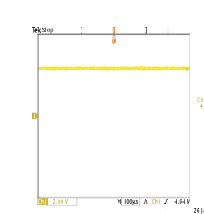
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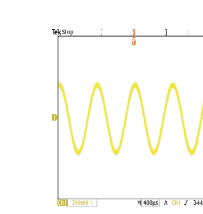
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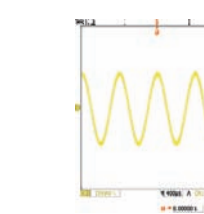
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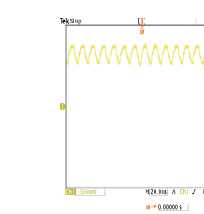
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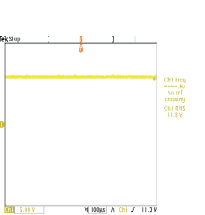
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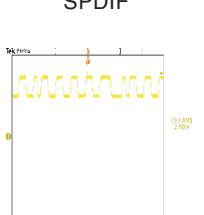
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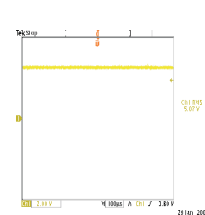
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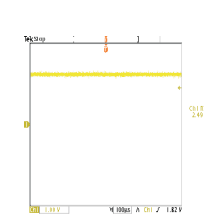
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TP909

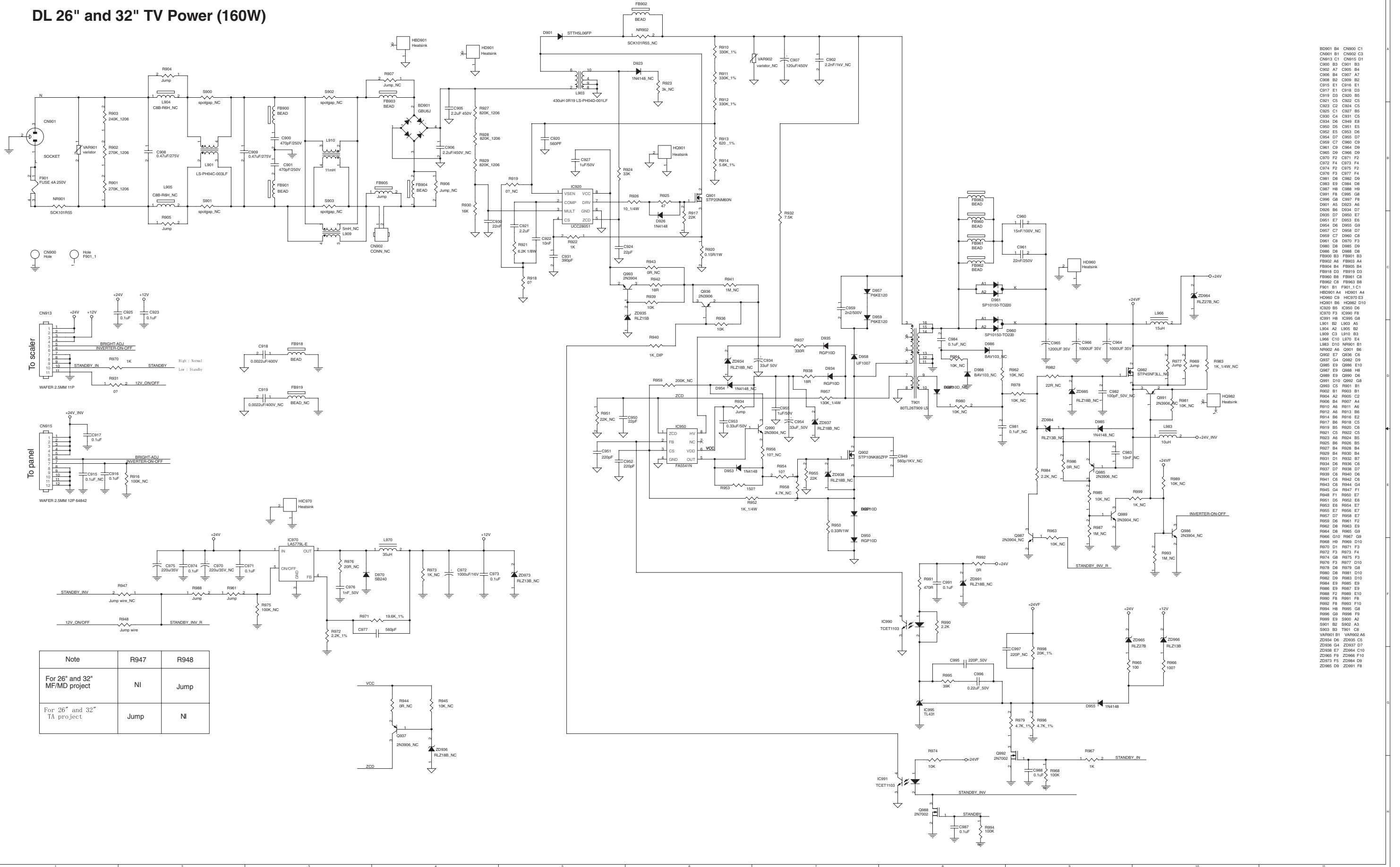


TP910



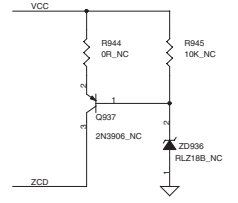
## Power Board Schematic Diagram(26" 32")

### DL 26" and 32" TV Power (160W)



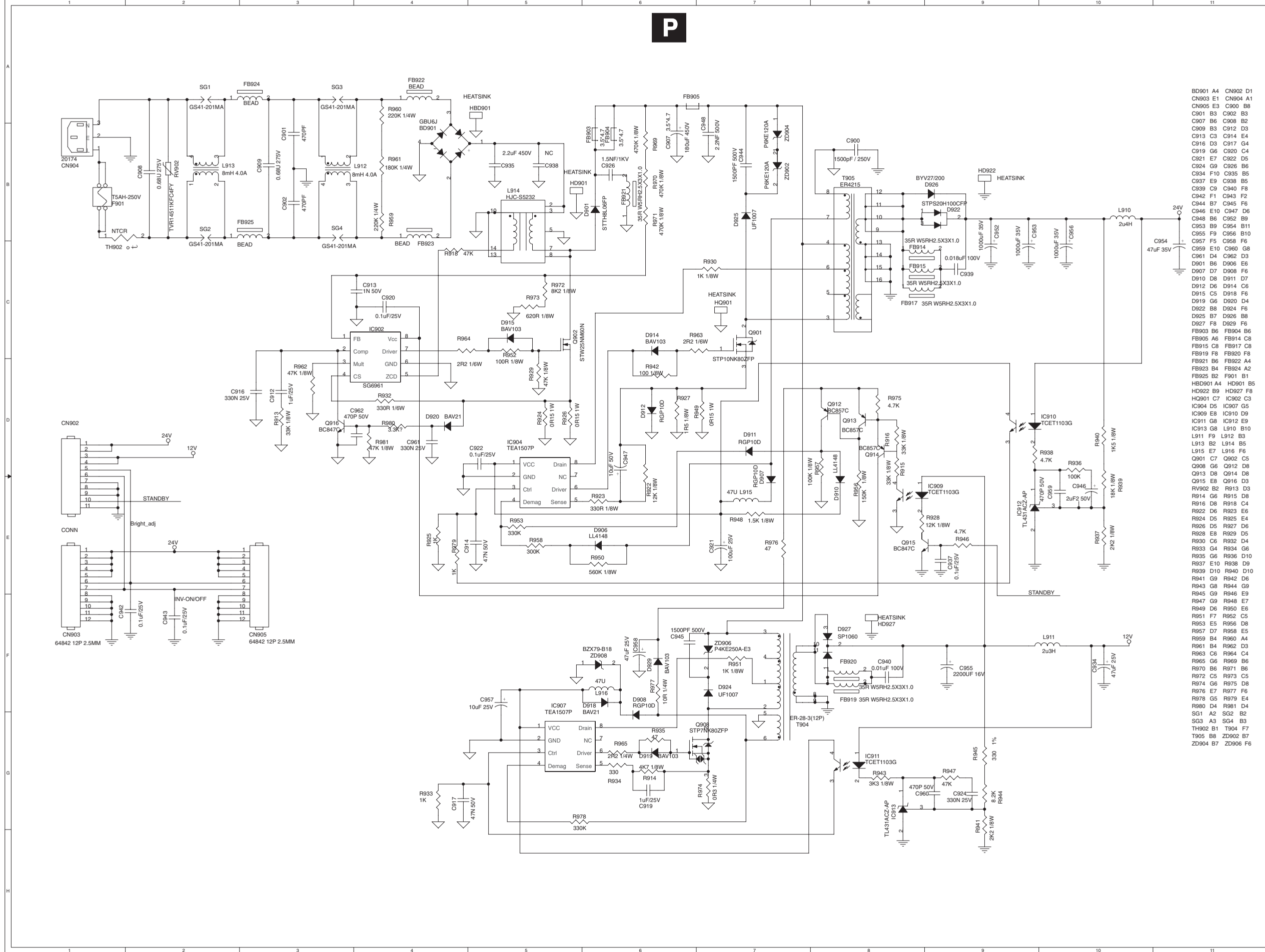
- BD901 B4 CN900 C1
- CN801 B1 CN802 C3
- CN813 C1 CN815 D1
- C900 B3 C901 B3
- C902 A7 C905 B4
- C906 B4 C907 A7
- C908 B2 C909 B2
- C910 E1 C916 E1
- C917 E1 C918 D3
- C919 D3 C920 B5
- C921 C5 C922 C5
- C923 C2 C924 C5
- C925 C1 C927 B5
- C930 C4 C931 C5
- C934 D6 C948 E8
- C950 D5 C951 E5
- C952 E5 C953 D6
- C954 D7 C955 D7
- C956 C7 C960 C9
- C961 C9 C964 D9
- C965 D9 C966 D9
- C970 F2 C971 F2
- C972 F4 C973 F4
- C974 F2 C975 F2
- C976 F3 C977 F4
- C981 D8 C982 D9
- C983 E9 C984 D8
- C987 B8 C988 H8
- C991 F8 C995 G8
- C996 G8 C997 F8
- C998 A5 C999 A6
- D956 B6 D954 D7
- D956 D7 D955 E7
- D957 D7 D958 D7
- D959 C7 D960 C8
- D961 C8 D970 F3
- D980 D8 D985 D9
- D986 D8 D988 D8
- FB900 B3 FB901 B3
- FB902 A6 FB903 A4
- FB904 B4 FB905 B4
- FB918 D3 FB919 D3
- FB920 B8 FB921 C8
- FB922 C8 FB923 B8
- FB901 B1 FB901\_1 C1
- HC901 A4 HC901 A4
- HD900 C9 HC970 E3
- HQ901 B6 HQ982 D10
- IC909 B5 IC950 D6
- IC970 F3 IC990 F8
- IC991 H8 IC995 G8
- L901 B2 L903 A5
- L904 A2 L905 B2
- L906 C3 L910 B3
- L910 D10 L970 E4
- L981 D10 NR901 B1
- NR902 A6 CN91 B6
- Q902 E7 Q909 C5
- Q927 G4 Q982 D9
- Q985 E9 Q986 E10
- Q987 E9 Q988 H8
- Q989 E9 Q990 D6
- Q991 D10 Q992 G8
- Q993 C5 R901 B1
- R902 B1 R903 B1
- R904 A2 R905 C2
- R906 B4 R907 A4
- R910 A6 R911 A6
- R912 A6 R913 B6
- R914 B6 R916 E2
- R917 B6 R918 C5
- R919 B5 R920 C5
- R921 C5 R922 C5
- R923 A6 R924 B5
- R925 B6 R926 B5
- R927 B4 R928 B4
- R929 B4 R930 B4
- R931 D1 R932 B7
- R934 D6 R936 C6
- R937 D7 R938 D7
- R939 C6 R940 D6
- R941 C6 R942 C6
- R943 C8 R944 G4
- R945 G4 R947 F1
- R948 F1 R950 E7
- R951 D5 R952 E5
- R953 E6 R954 E7
- R955 E7 R956 E7
- R957 D7 R958 E7
- R959 D6 R961 F2
- R962 D8 R963 E3
- R964 D8 R965 G9
- R966 G10 R967 G9
- R968 H9 R969 D10
- R970 D1 R971 F3
- R972 F3 R973 F4
- R974 C8 R975 F3
- R976 F3 R977 D10
- R978 D8 R979 G6
- R980 D8 R981 D10
- R982 D9 R983 D10
- R984 E9 R985 E9
- R986 E9 R987 E9
- R988 F2 R989 E10
- R990 F8 R991 F8
- R992 F8 R993 F10
- R994 H8 R995 G8
- R996 C9 R998 F9
- R999 E9 S900 A2
- S901 B2 S902 A3
- S903 E3 S901 C6
- VAR901 B1 VAR902 A6
- ZD934 D6 ZD935 C5
- ZD936 B4 ZD937 D7
- ZD938 E7 ZD964 C10
- ZD965 F9 ZD968 F10
- ZD973 F9 ZD984 D9
- ZD985 D9 ZD991 F8

Note	R947	R948
For 26" and 32" MF/MD project	NI	Jump
For 26" and 32" TA project	Jump	NI

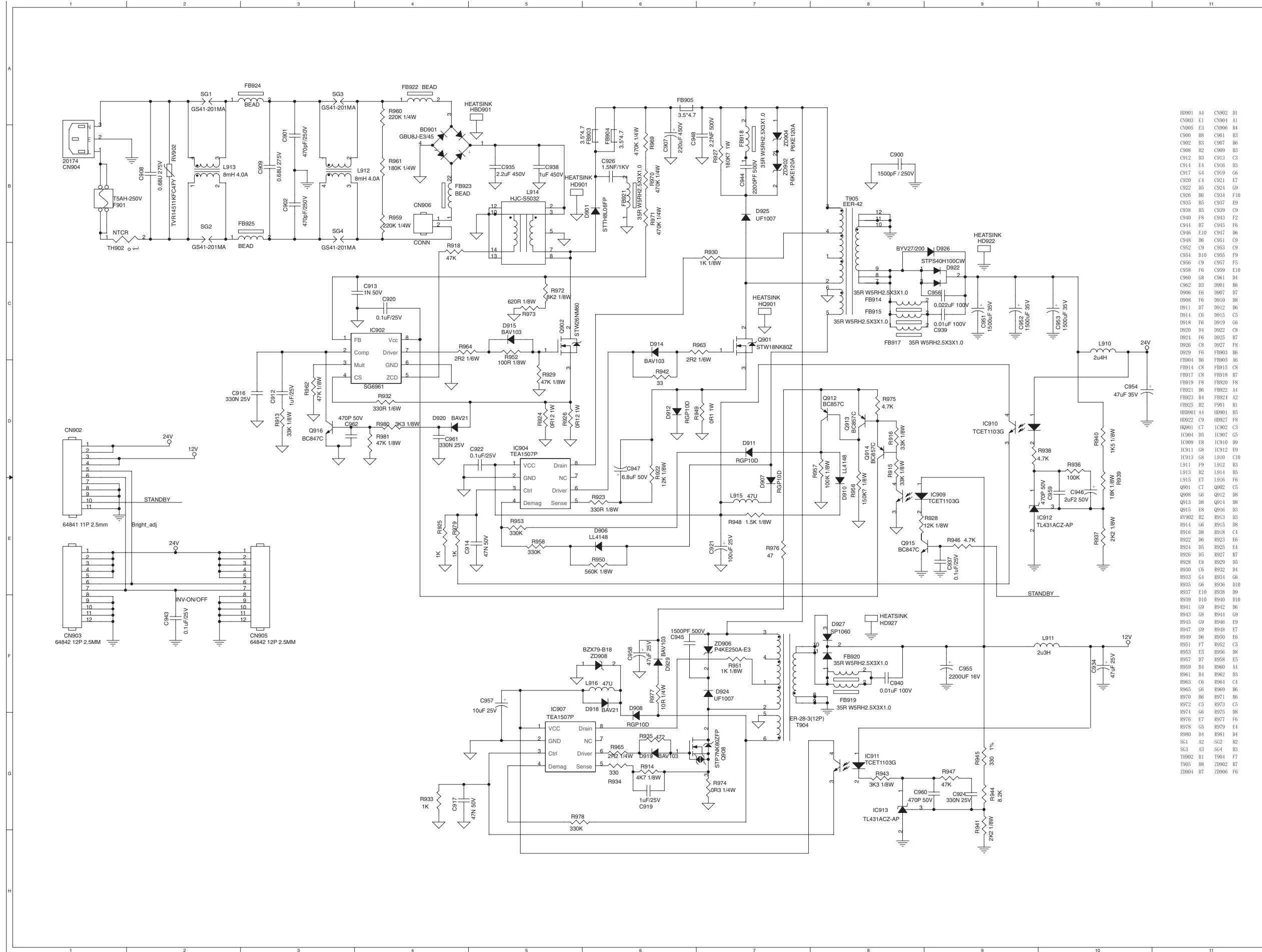


# 7. Circuit Diagrams and PWB Layouts

## Power Board Schematic Diagram(37")

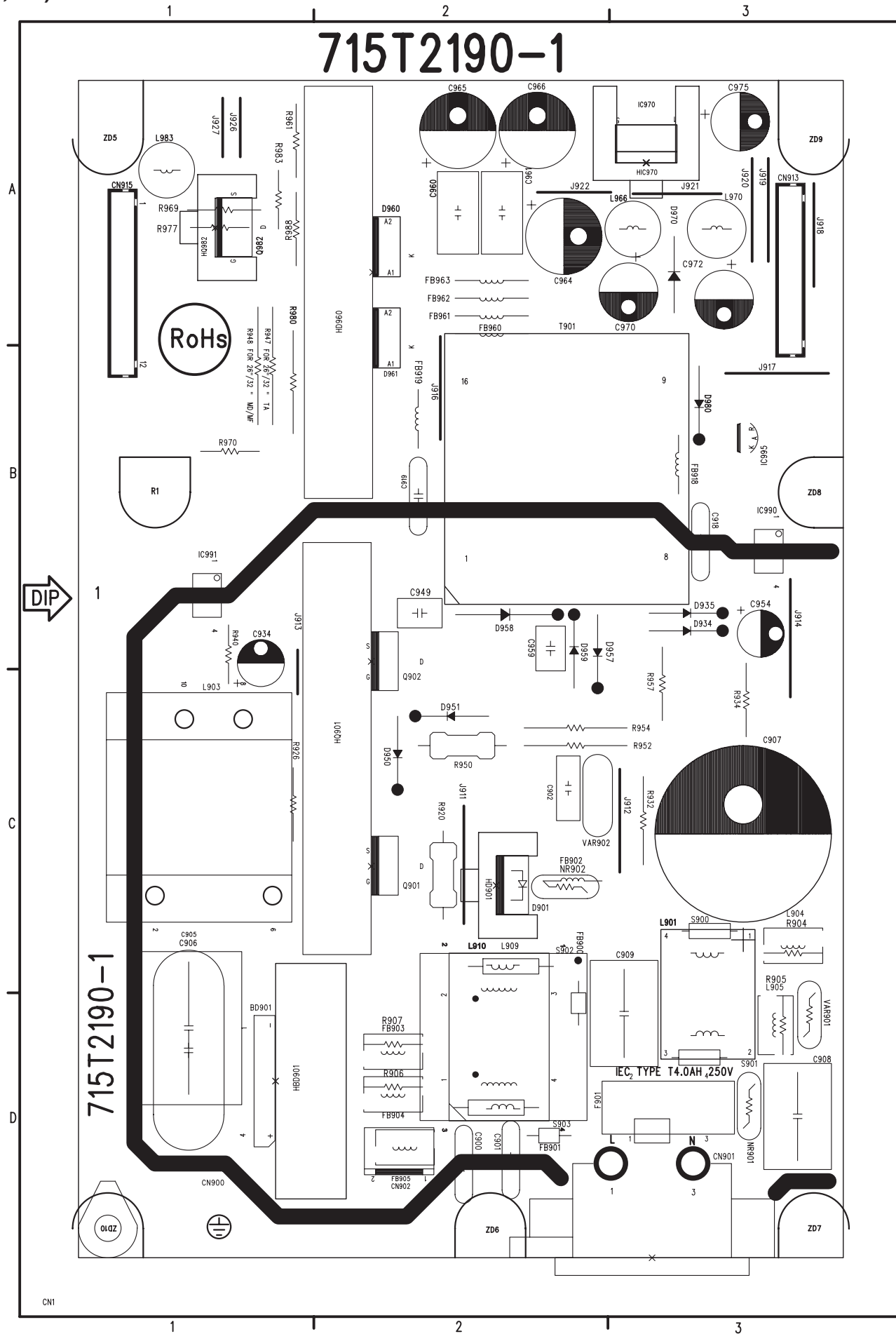


Power Board Schematic Diagram(42")



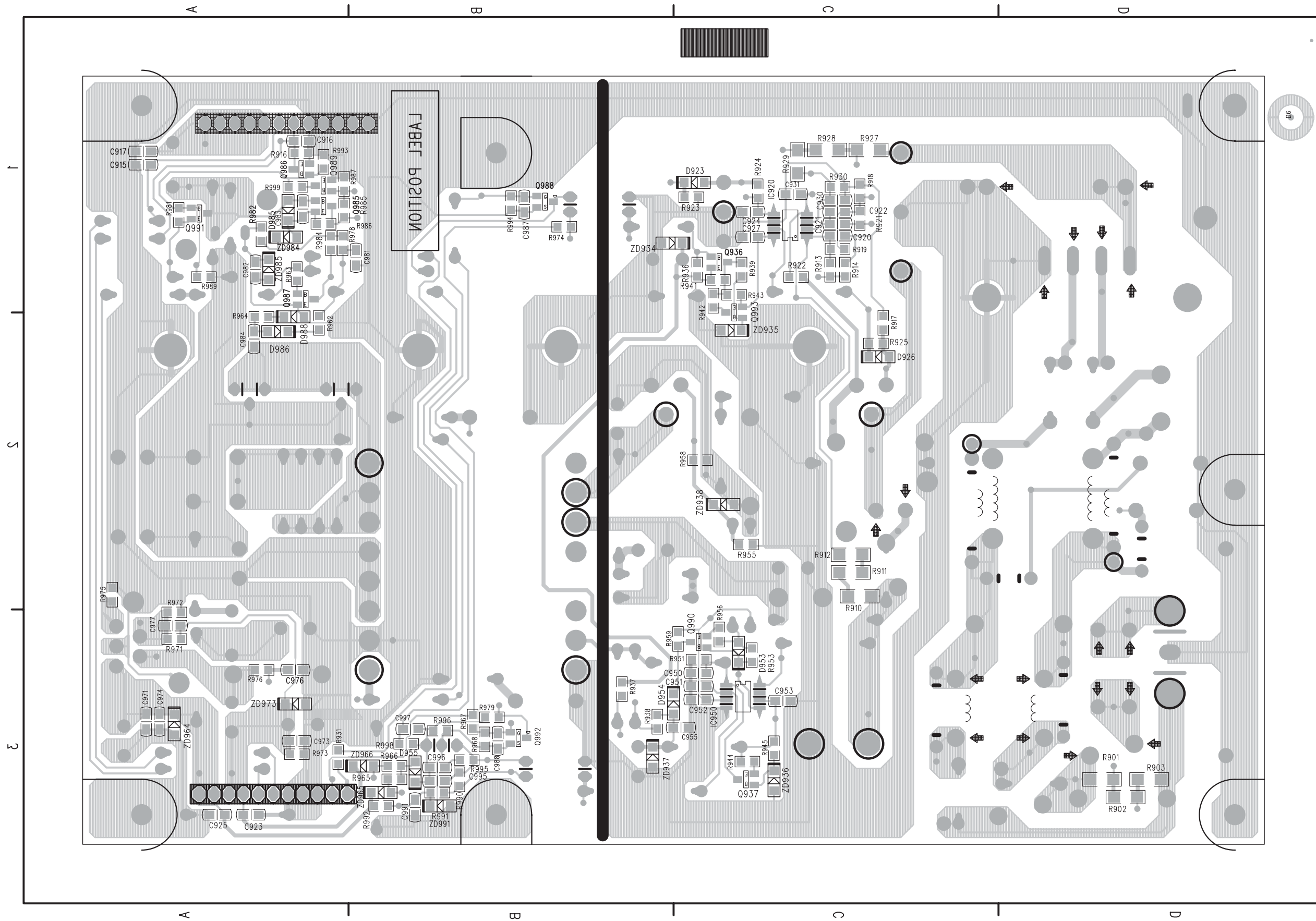
B901	A4	C902	D1
C903	E1	C904	A1
C905	E3	C906	B4
C908	B8	C901	B3
C902	B3	C907	B6
C908	B2	C909	B3
C912	D3	C913	C3
C914	E4	C916	D3
C917	G4	C919	G6
C920	C4	C921	E7
C922	D5	C924	G9
C928	B6	C934	F10
C935	B5	C937	B9
C938	B5	C939	C9
C940	F8	C943	F2
C944	B7	C945	F6
C946	E10	C947	B6
C948	B6	C951	C9
C952	C9	C953	C9
C954	D10	C955	F9
C956	C9	C957	F5
C958	F6	C959	E10
C960	G8	C961	D4
C962	D3	D901	B6
D906	E6	D907	D7
D908	F6	D910	D8
D911	D7	D912	D6
D914	C6	D915	C5
D918	F6	D919	G6
D928	D4	D923	C8
D924	F6	D925	B7
D926	C8	D927	F8
D929	F6	F903	B6
F904	B6	F905	A6
F914	C8	F915	C8
F917	C8	F918	B7
F919	F8	F920	F8
F921	B6	F922	A4
F923	B4	F924	A2
F925	B2	F901	B1
H901	A4	H901	B5
H922	C9	H927	F8
H901	C7	L902	C3
L904	D5	L907	G5
L909	E8	L910	B9
L911	B8	L912	B9
L913	B8	L914	B5
L915	E7	L916	F6
Q901	C7	Q902	C5
Q908	G6	Q912	D8
Q913	D8	Q914	D8
Q915	E8	Q916	D3
R902	B2	R913	D3
R914	G6	R915	D8
R916	D8	R918	C4
R922	D6	R923	E6
R924	D5	R925	E4
R926	D5	R927	B7
R928	E8	R929	D5
R930	C6	R932	D4
R933	G4	R934	G6
R935	G6	R936	D10
R937	E10	R938	D9
R939	D10	R940	D10
R941	G9	R942	D6
R943	G8	R944	G9
R945	G9	R946	E9
R947	G9	R948	E7
R949	D6	R950	E6
R951	F7	R952	C5
R953	E5	R956	D8
R957	D7	R958	E5
R959	B4	R960	A4
R961	B4	R962	D3
R963	C6	R964	C1
R965	G6	R969	B6
R970	B6	R971	B6
R972	C5	R973	C5
R974	G6	R975	D8
R976	E7	R977	F6
R978	G5	R979	E4
R980	D4	R981	D4
SG1	A2	SG2	B2
SG3	A3	SG4	B3
T902	B1	T904	F7
T905	B8	T906	B7
Z904	B7	Z906	F6

Power Board layout(26",32")



- BD901 D1 IC990 B3
- C900 D2 IC991 B1
- C901 D2 IC995 B3
- C902 C2 J911 C2
- C905 D1 J912 C3
- C906 D1 J913 C1
- C907 C3 J914 C3
- C908 D3 J916 B2
- C909 D3 J917 B3
- C918 B3 J918 A3
- C919 B2 J919 A3
- C934 B1 J920 A3
- C949 B2 J921 A3
- C954 B3 J922 A2
- C959 B2 J926 A1
- C960 A2 J927 A1
- C961 A2 L901 D3
- C964 A2 L903 C1
- C965 A2 L904 C3
- C966 A2 L905 D3
- C970 A3 L909 D2
- C972 A3 L910 D2
- C975 A3 L966 A3
- CN900 D1 L970 A3
- CN901 D3 L983 A1
- CN902 D2 NR901 D3
- CN913 A3 NR902 C2
- CN915 A1 Q901 C2
- D901 C2 Q902 B2
- D934 B3 Q982 A1
- D935 B3 R904 C3
- D950 C2 R905 D3
- D951 C2 R906 D2
- D957 C2 R907 D2
- D958 B2 R920 C2
- D959 B2 R926 C1
- D960 A2 R932 C3
- D961 A2 R934 B3
- D970 A3 R940 B1
- D980 B3 R947 A1
- F901 D3 R948 A1
- FB900 D2 R950 C2
- FB901 D2 R952 C3
- FB902 C2 R954 C2
- FB903 D2 R957 C3
- FB904 D2 R961 A1
- FB905 D2 R969 A1
- FB918 B3 R970 B1
- FB919 B2 R977 A1
- FB960 A2 R980 B1
- FB961 A2 R983 A1
- FB962 A2 R988 A1
- FB963 A2 S900 C3
- HBD901 D1 S901 D3
- HD901 C2 S902 C2
- HD960 A2 S903 D2
- HIC970 A3 T901 B2
- HQ901 C2 VAR901 C3
- HQ982 A1 VAR902 C2
- IC970 A3 ZD10 D1

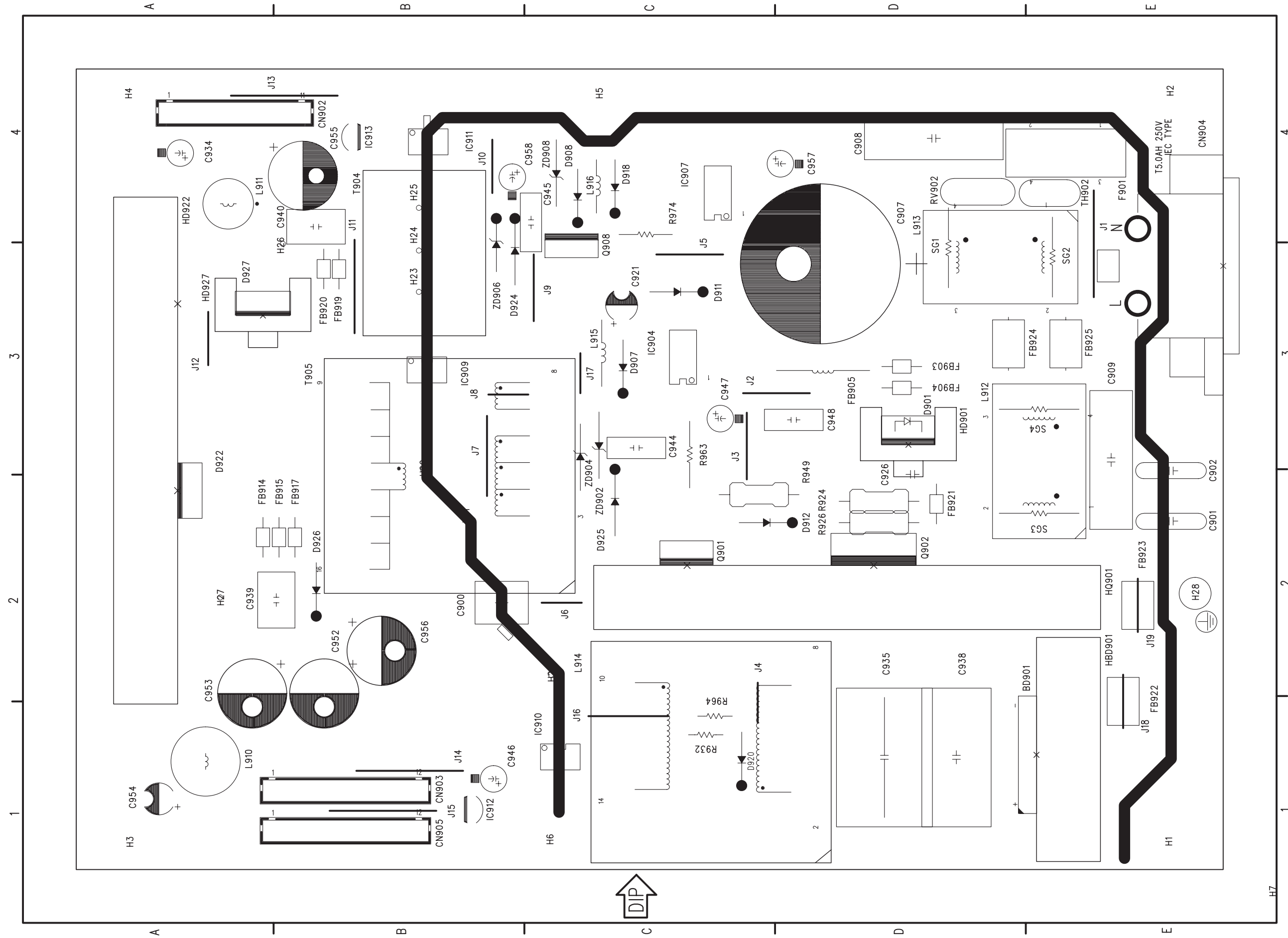
Power Board Layout(26",32")-1



- C915 A1 R922 C1
- C916 A1 R923 C1
- C917 A1 R924 C1
- C920 C1 R925 C2
- C921 C1 R927 C1
- C922 C1 R928 C1
- C923 A3 R929 C1
- C924 C1 R930 C1
- C925 A3 R931 A3
- C927 C1 R936 C1
- C930 C1 R937 B3
- C931 C1 R938 B3
- C950 C3 R939 C1
- C951 C3 R941 C1
- C952 C3 R942 C1
- C953 C3 R943 C1
- C955 C3 R944 C3
- C971 A3 R945 C3
- C973 A3 R951 C3
- C974 A3 R953 C3
- C976 A3 R955 C2
- C977 A3 R956 C3
- C981 B1 R958 C2
- C982 A1 R959 C3
- C983 A1 R962 A2
- C984 A2 R963 A1
- C987 B1 R964 A2
- C988 B3 R965 B3
- C991 B3 R966 B3
- C995 B3 R967 B3
- C996 B3 R968 B3
- C997 B3 R971 A3
- D923 C1 R972 A3
- D926 C2 R973 A3
- D953 C3 R974 B1
- D954 B3 R975 A2
- D955 B3 R976 A3
- D985 A1 R978 A1
- D986 A2 R979 B3
- D988 A2 R981 A1
- IC920 C1 R982 A1
- IC950 C3 R984 A1
- Q936 C1 R985 A1
- Q937 C3 R986 A1
- Q985 A1 R987 A1
- Q986 A1 R989 A1
- Q987 A1 R990 B3
- Q988 B1 R991 B3
- Q989 A1 R992 B3
- Q990 C3 R993 A1
- Q991 A1 R994 B1
- Q992 B3 R995 B3
- Q993 C2 R996 B3
- R901 D3 R998 B3
- R902 D3 R999 A1
- R903 D3 ZD934 B1
- R910 C2 ZD935 C2
- R911 C2 ZD936 C3
- R912 C2 ZD937 B3
- R913 C1 ZD938 C2
- R914 C1 ZD964 A3
- R916 A1 ZD965 B3
- R917 C2 ZD966 B3
- R918 C1 ZD973 A3
- R919 C1 ZD984 A1
- R921 C1 ZD985 A1
- Z4991 B3

7. Circuit Diagrams and PWB Layouts

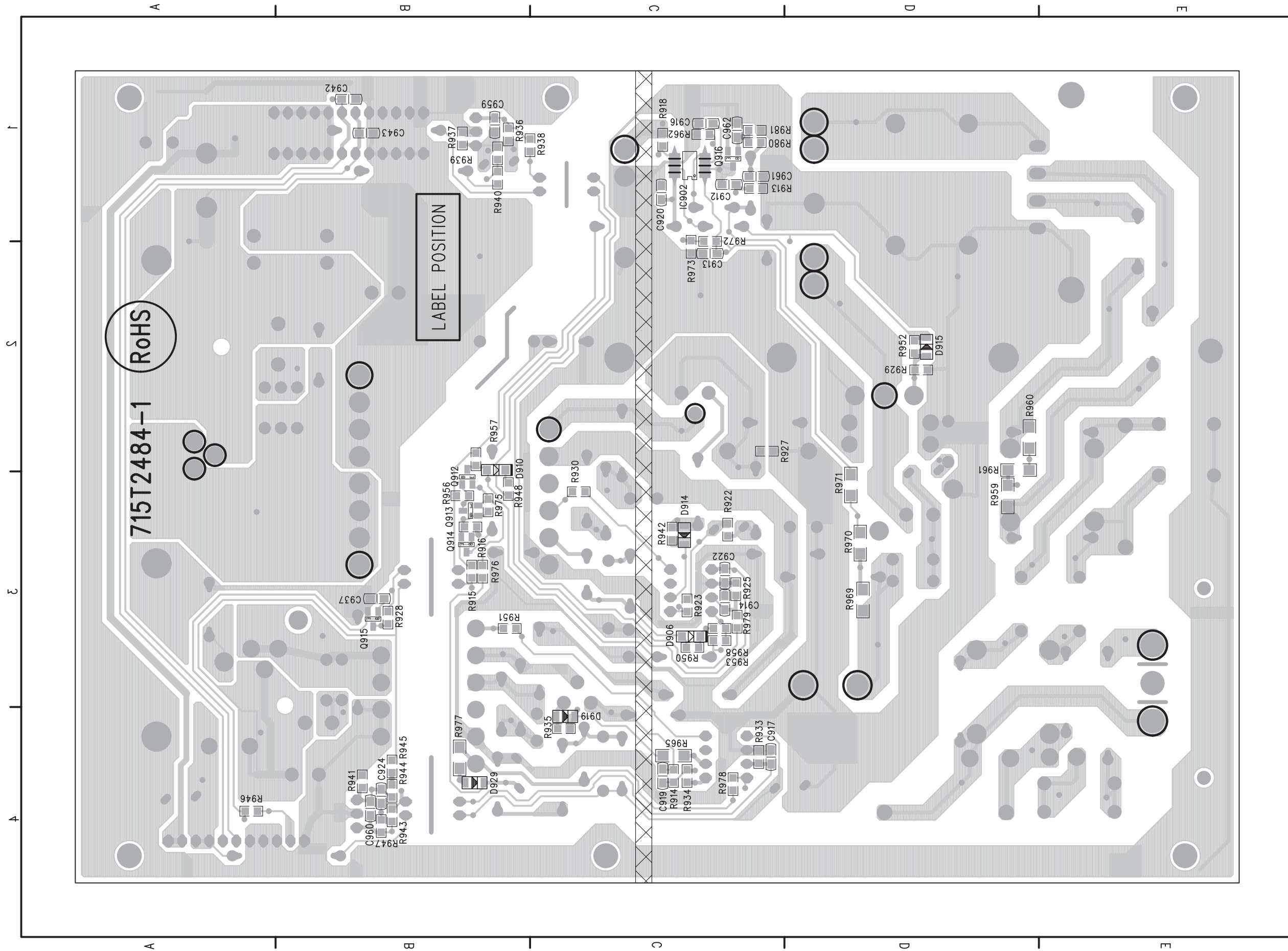
Power Board Layout(37")



- 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



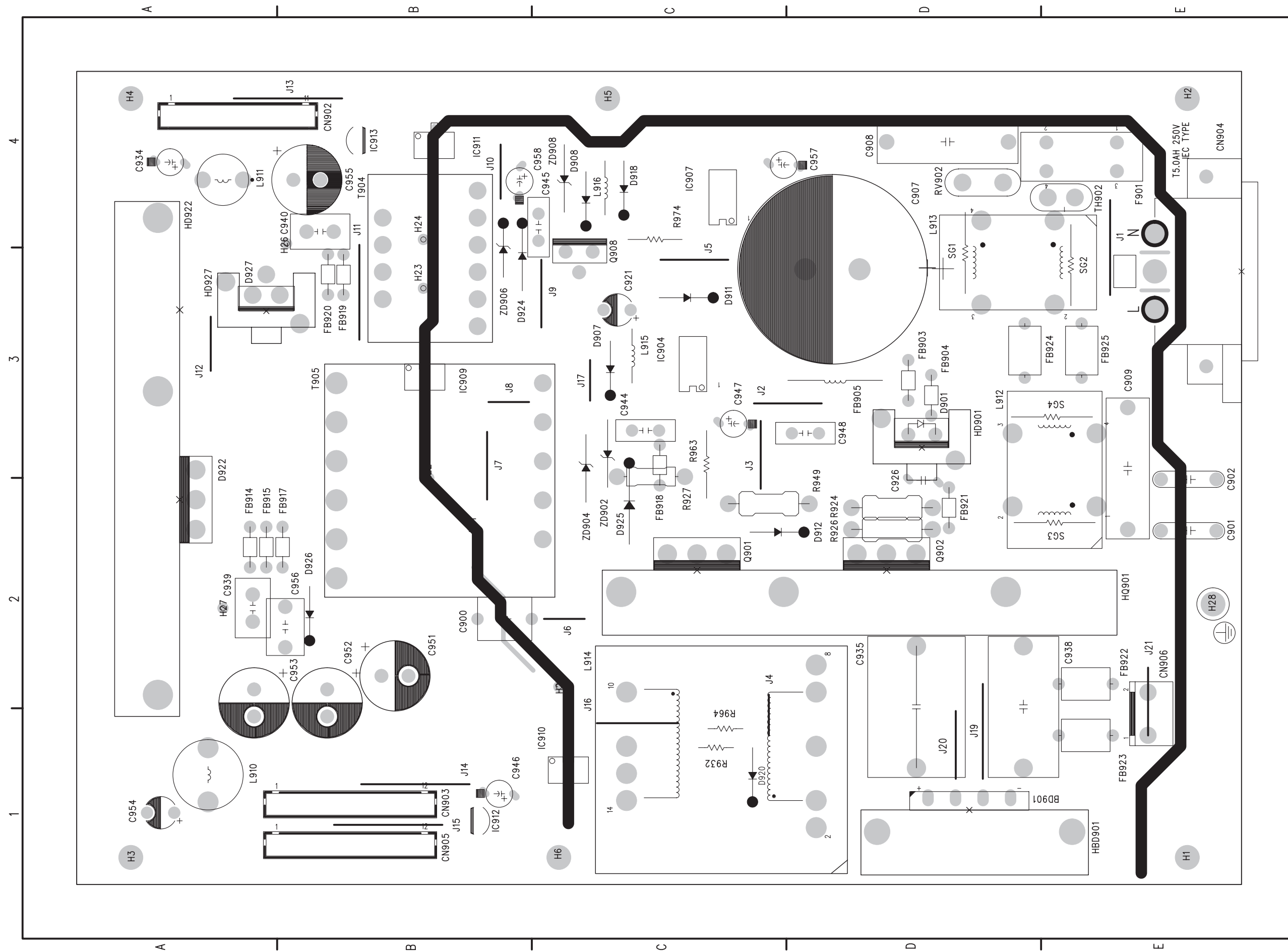
Power Board Layout(37")-1



C912	C1	R933	C4
C913	C2	R934	C4
C914	C3	R935	C4
C916	C1	R936	B1
C917	C4	R937	B1
C919	C4	R938	B1
C920	C1	R939	B1
C922	C3	R940	B1
C924	B4	R941	B4
C937	B3	R942	C3
C942	B1	R943	B4
C943	B1	R944	B4
C959	B1	R945	B4
C960	B4	R946	A4
C961	C1	R947	B4
C962	C1	R948	B3
D906	C3	R950	C3
D910	B2	R951	B3
D914	C3	R952	D2
D915	D2	R953	C3
D919	C4	R956	B3
D929	B4	R957	B2
IC902	C1	R958	C3
Q912	B3	R959	D3
Q913	B3	R960	D2
Q914	B3	R961	D2
Q915	B3	R962	C1
Q916	C1	R965	C4
R913	C1	R969	D3
R914	C4	R970	D3
R915	B3	R971	D3
R916	B3	R972	C1
R918	C1	R973	C2
R922	C3	R975	B3
R923	C3	R976	B3
R925	C3	R977	B4
R927	C2	R978	C4
R928	B3	R979	C3
R929	D2	R980	C1
R930	C3	R981	C1

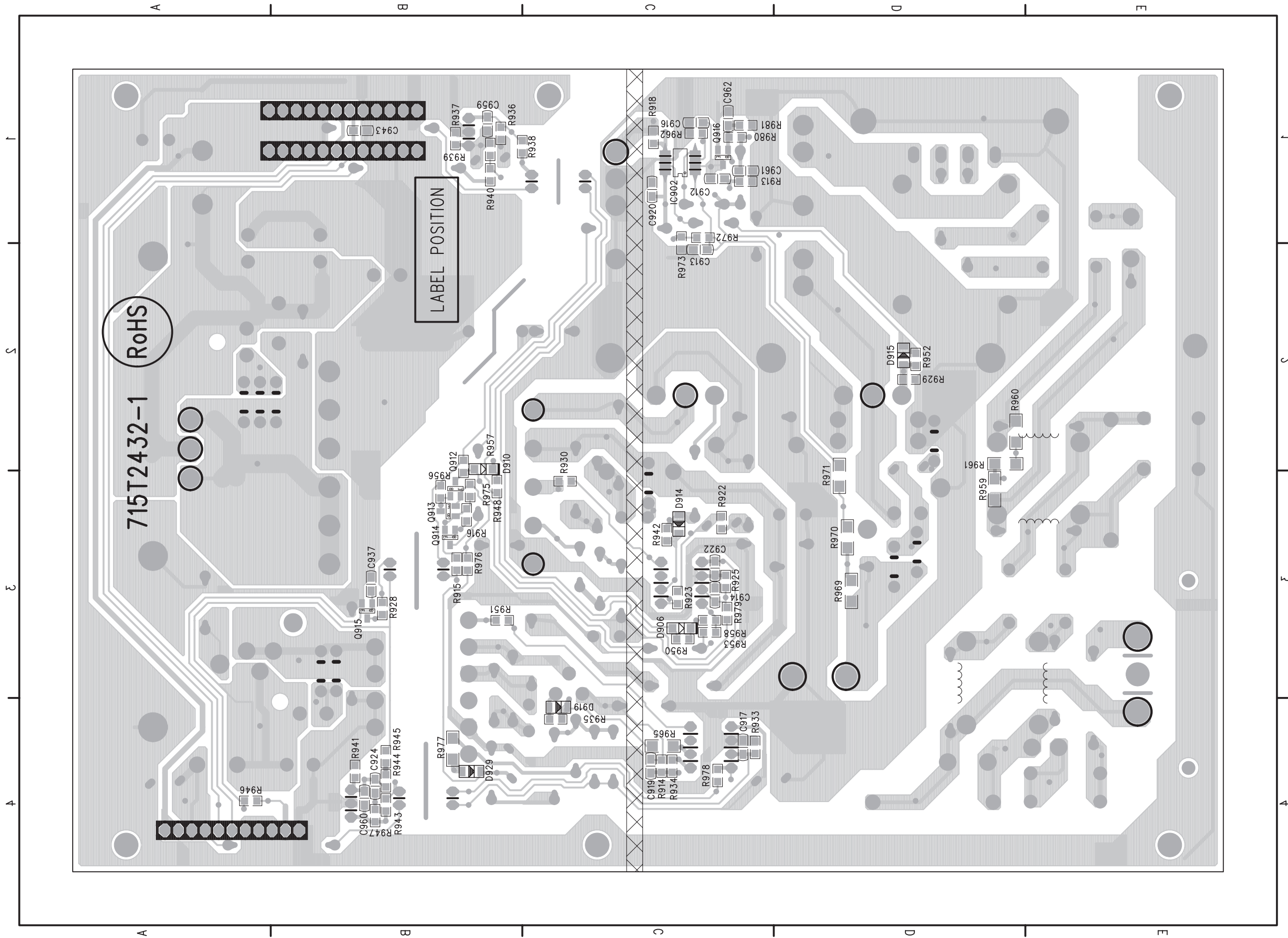
7. Circuit Diagrams and PWB Layouts

Power Board Layout(42")



- 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
- D918 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

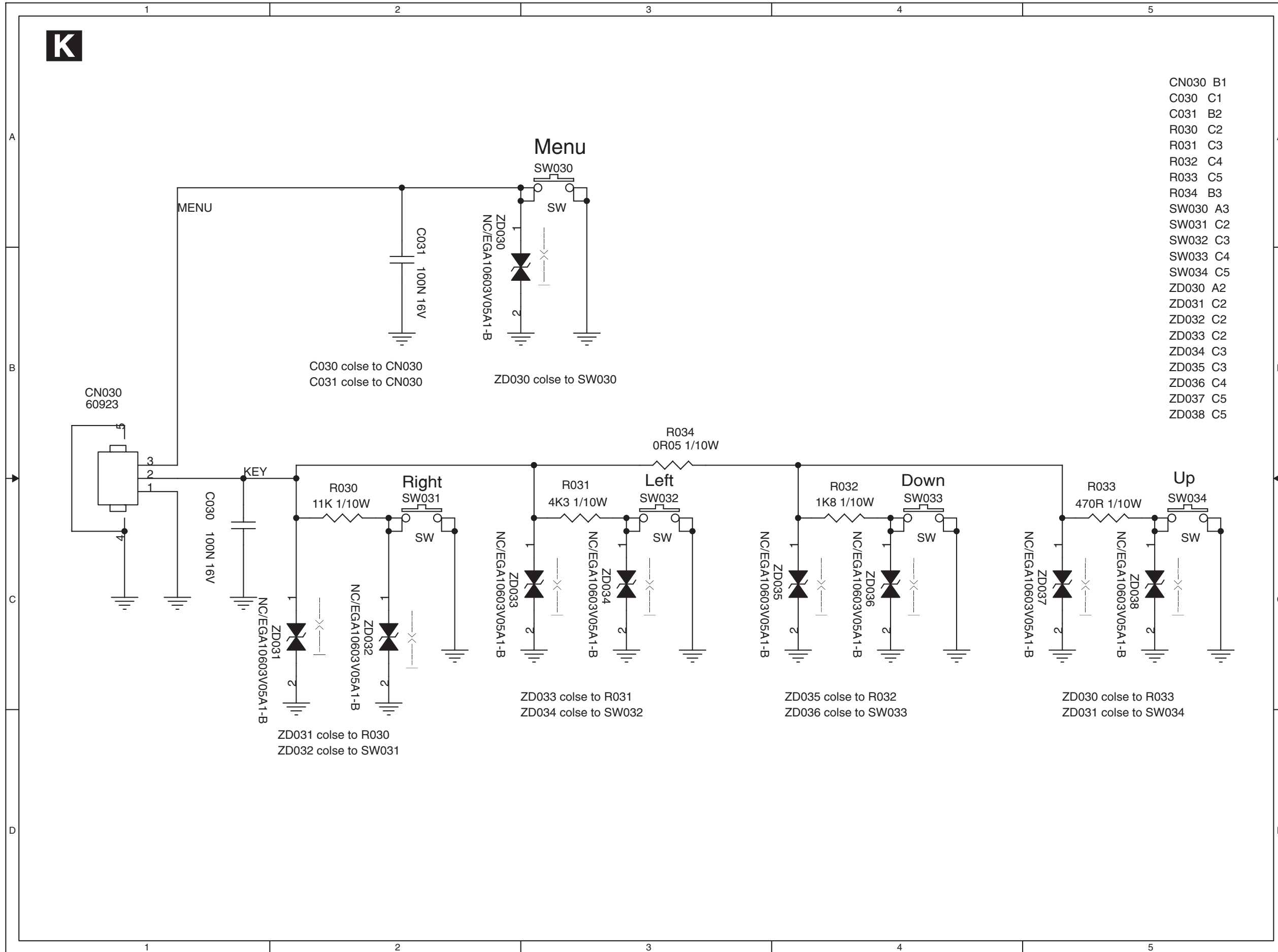
Power Board Layout(42")-1



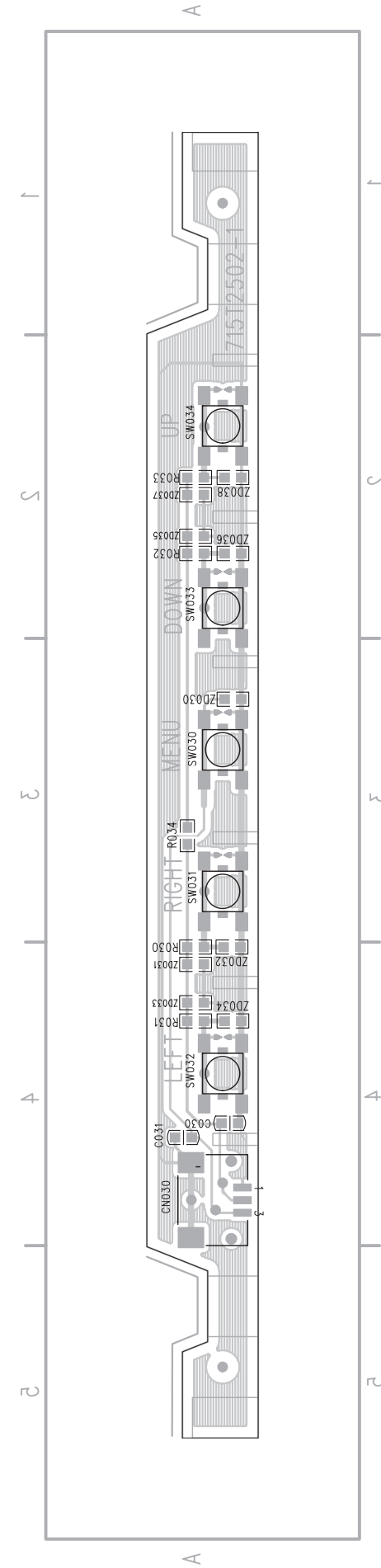
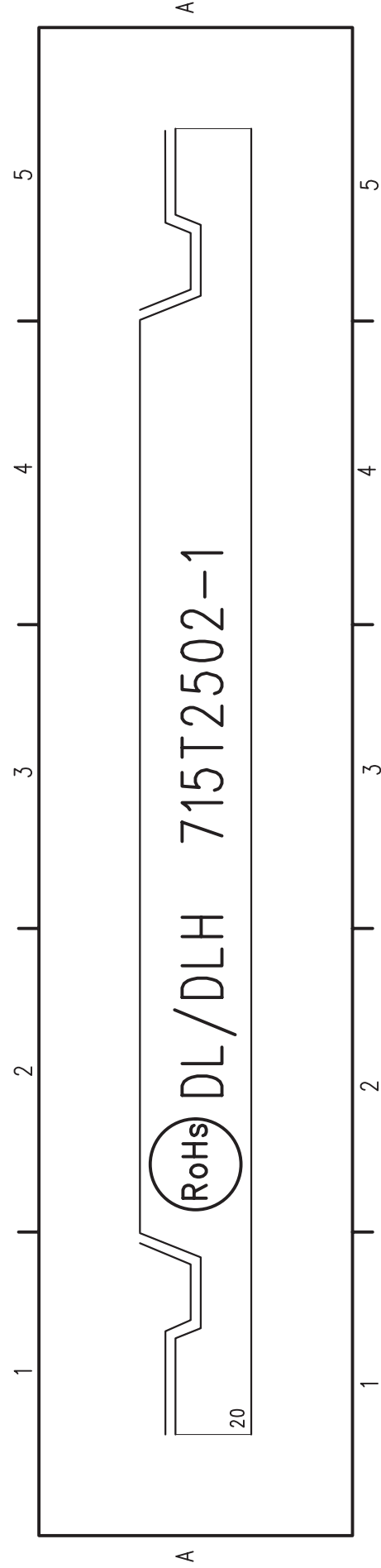
- C912 C1
- C913 C2
- C914 C3
- C916 C1
- C917 C4
- C919 C4
- C920 C1
- C922 C3
- C924 B4
- C937 B3
- C943 B1
- C959 B1
- C960 B4
- C961 C1
- C962 C1
- D906 C3
- D910 B2
- D914 C3
- D915 D2
- D919 C4
- D929 B4
- IC902 C1
- Q912 B3
- Q913 B3
- Q914 B3
- Q915 B3
- Q916 C1
- R913 C1
- R914 C4
- R915 B3
- R916 B3
- R918 C1
- R922 C3
- R923 C3
- R925 C3
- R928 B3
- R929 D2
- R930 C3
- R933 C4
- R934 C4
- R935 C4
- R936 B1
- R937 B1
- R938 B1
- R939 B1
- R940 B1
- R941 B4
- R942 C3
- R943 B4
- R944 B4
- R945 B4
- R946 A4
- R947 B4
- R948 B3
- R950 C3
- R951 B3
- R952 D2
- R953 C3
- R956 B3
- R957 B2
- R958 C3
- R959 D3
- R960 D2
- R961 D2
- R962 C1
- R965 C4
- R969 D3
- R970 D3
- R971 D3
- R972 C1
- R973 C2
- R975 B3
- R976 B3
- R977 B4
- R978 C4
- R979 C3
- R980 C1
- R981 C1

7. Circuit Diagrams and PWB Layouts

Key Board Schematic Diagram



Key Board Layout

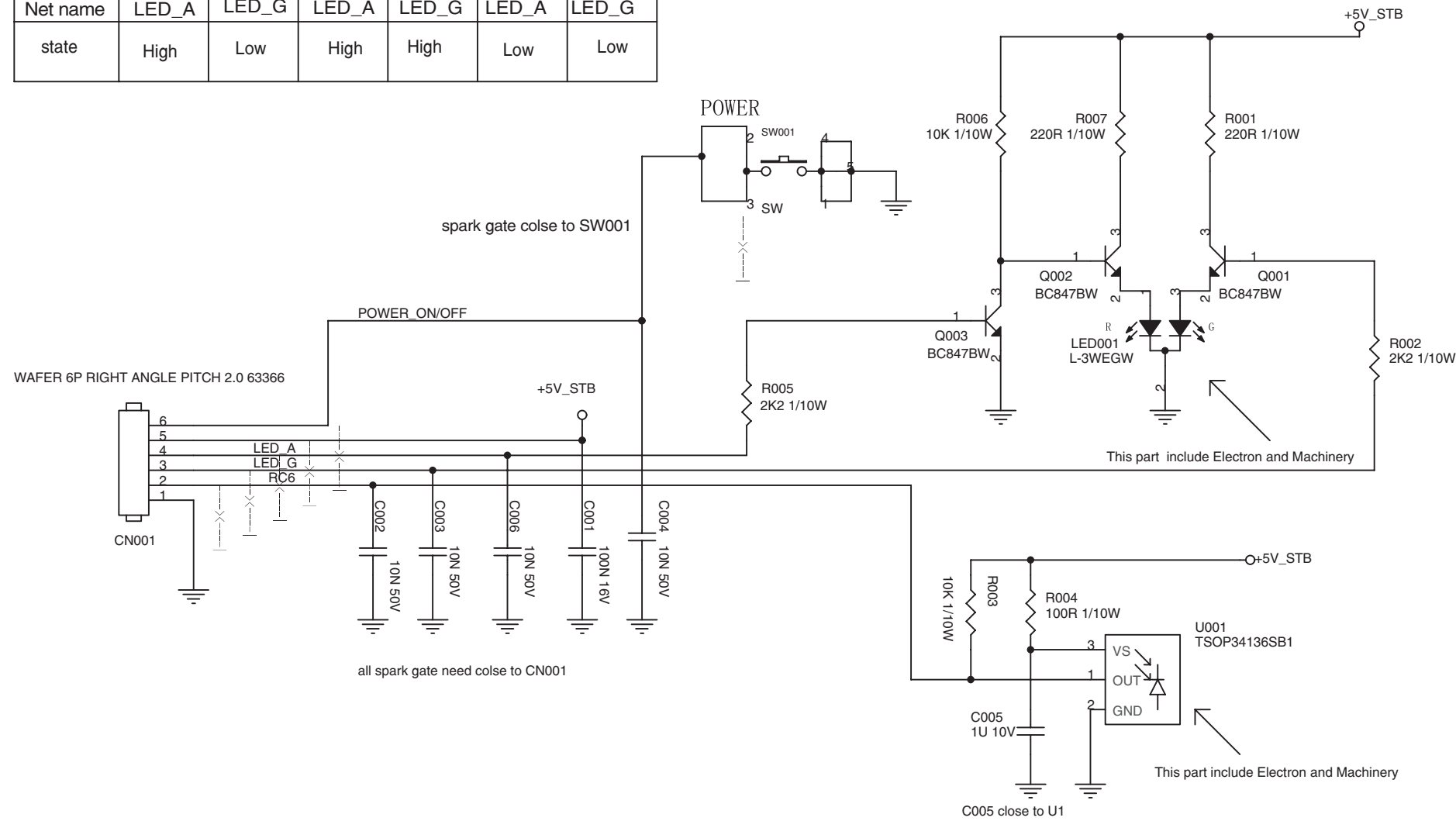


- C030 A4 SW14 A3
- C031 A4 SW15 A3
- CN030 A4 SW16 A2
- R030 A4 SW17 A2
- R031 A4 ZD030 A3
- R032 A2 ZD031 A4
- R033 A2 ZD032 A4
- R034 A3 ZD033 A4
- SW030 A3 ZD034 A4
- SW031 A3 ZD035 A2
- SW032 A4 ZD036 A2
- SW033 A2 ZD037 A2
- SW034 A2 ZD038 A2
- SW13 A4

IR Board Schematic Diagram(26",32")

# LED STATUS

FUCTION	Standby (Blank)		Power on (Green)		Pc power saving (Red)	
	LED_A	LED_G	LED_A	LED_G	LED_A	LED_G
state	High	Low	High	High	Low	Low

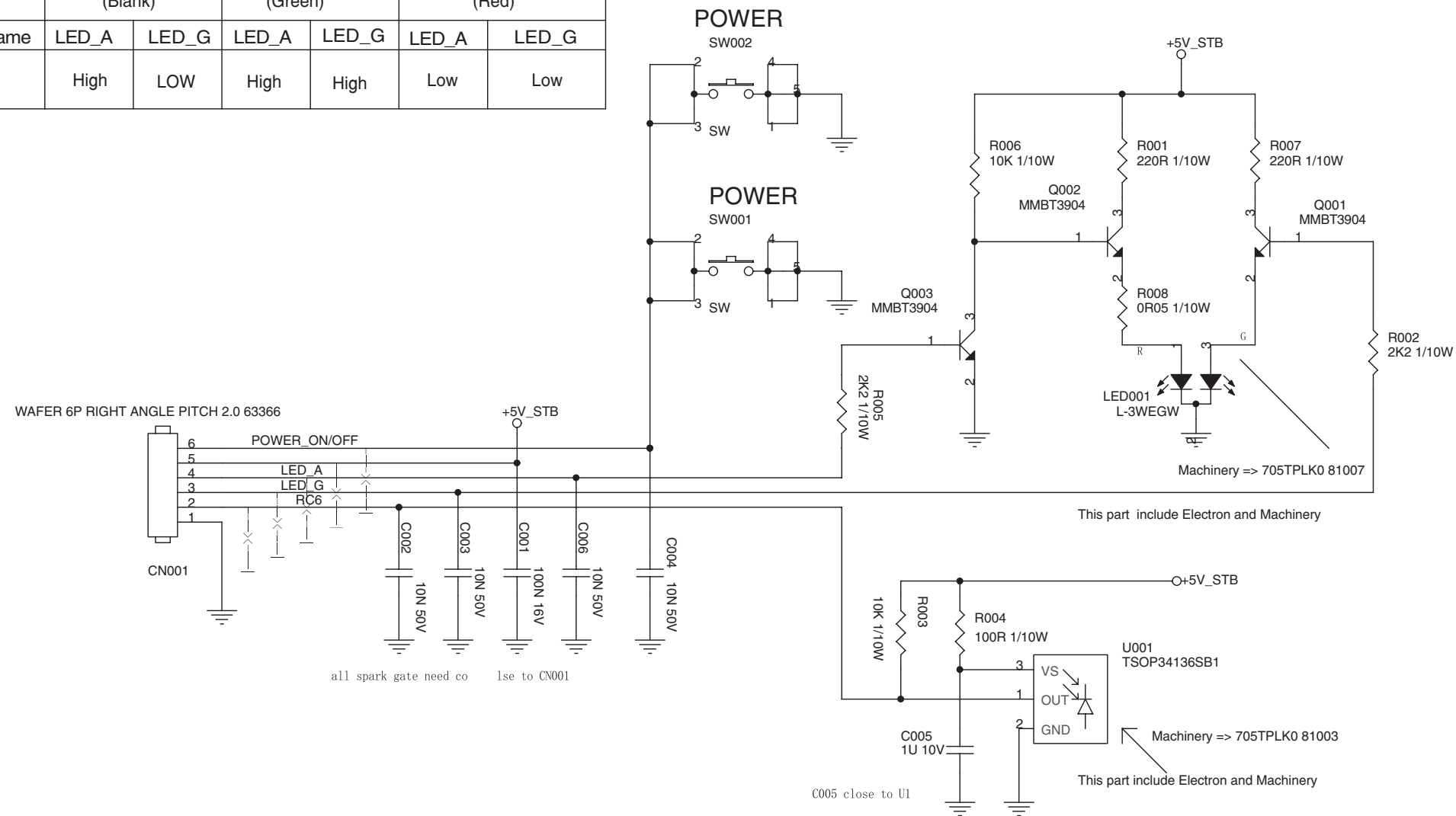


- CN001 C1
- C001 C3
- C002 C2
- C003 C2
- C004 C3
- C005 D4
- C006 C2
- LED001 B5
- Q001 B5
- Q002 B5
- Q003 B4
- R001 B5
- R002 B6
- R003 C4
- R004 C4
- R005 C3
- R006 B4
- R007 B5
- SW001 B3
- U001 C5

IR Board Schematic Diagram(37",42")

LED STATUS

FUNCTION	Standby (Blank)		Power on (Green)		Pc power saveing (Red)	
Net name	LED_A	LED_G	LED_A	LED_G	LED_A	LED_G
state	High	LOW	High	High	Low	Low



- CN001 C2
- C001 C3
- C002 C2
- C003 C3
- C004 C3
- C005 D4
- C006 C3
- LED001 B5
- Q001 B6
- Q002 B5
- Q003 B4
- R001 B5
- R002 B6
- R003 C4
- R004 C4
- R005 C4
- R006 B4
- R007 B5
- R008 B5
- SW001 B3
- SW002 A3
- U001 C5

all spark gate need co lse to CN001

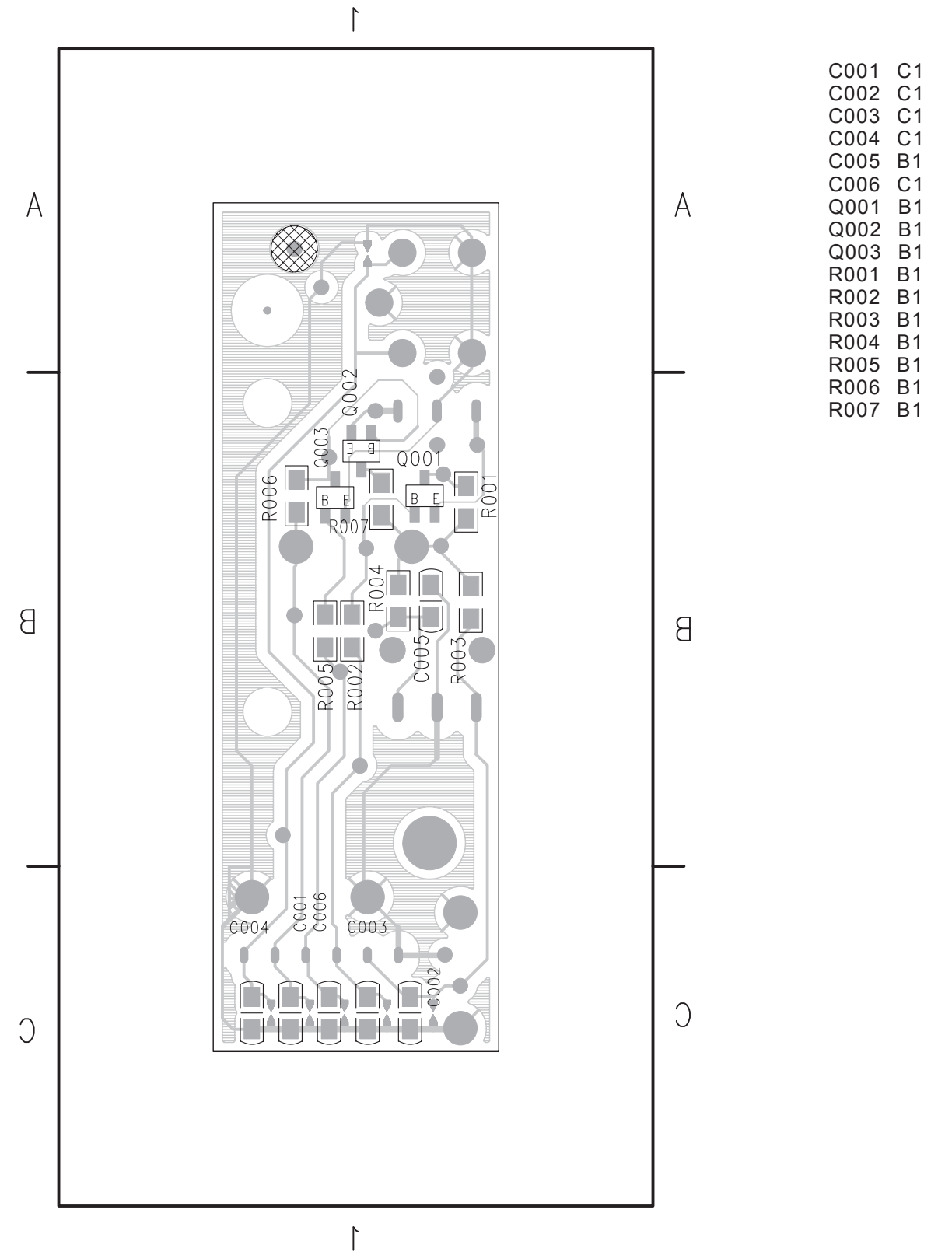
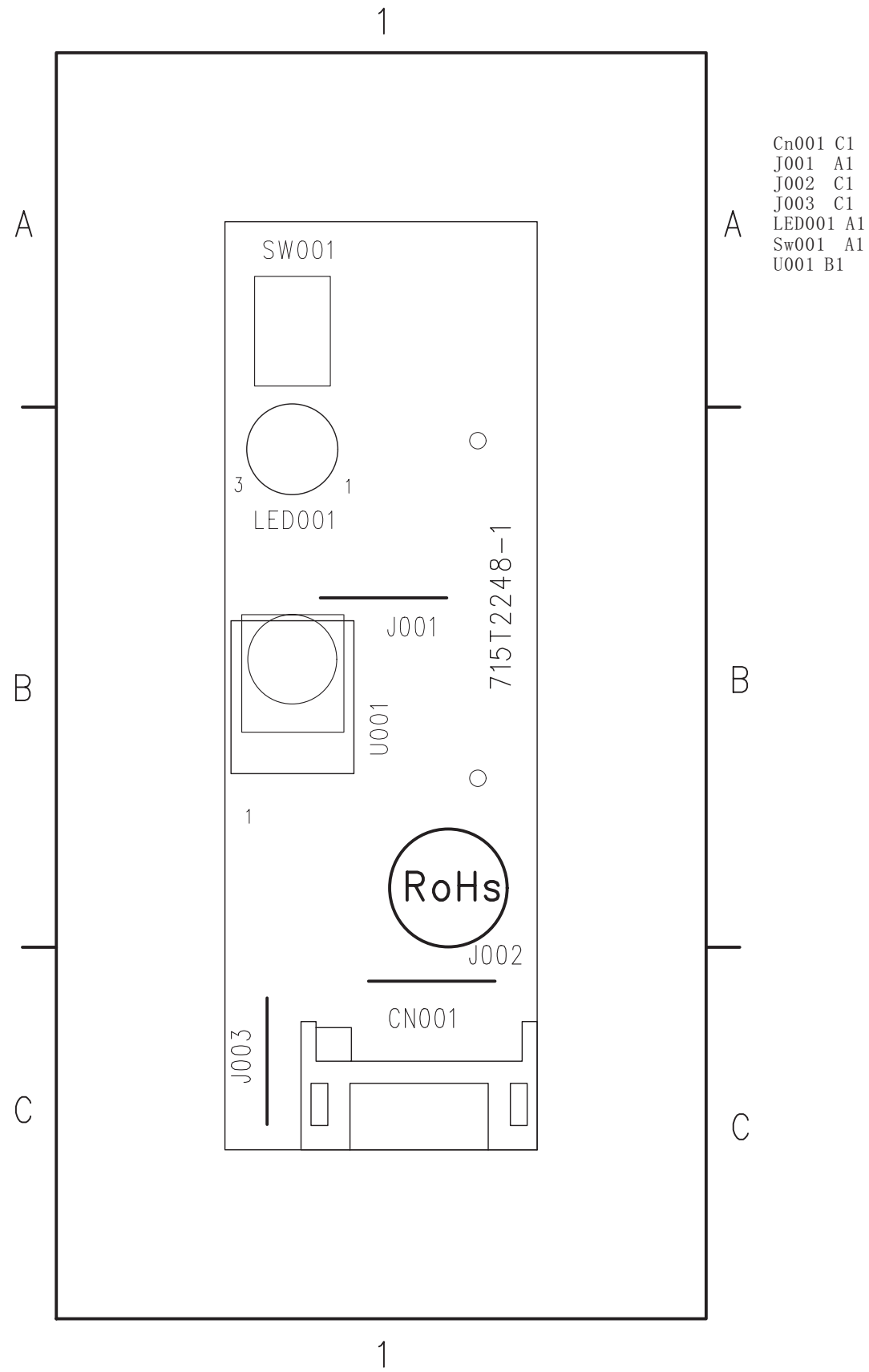
This part include Electron and Machinery

This part include Electron and Machinery

C005 close to U1

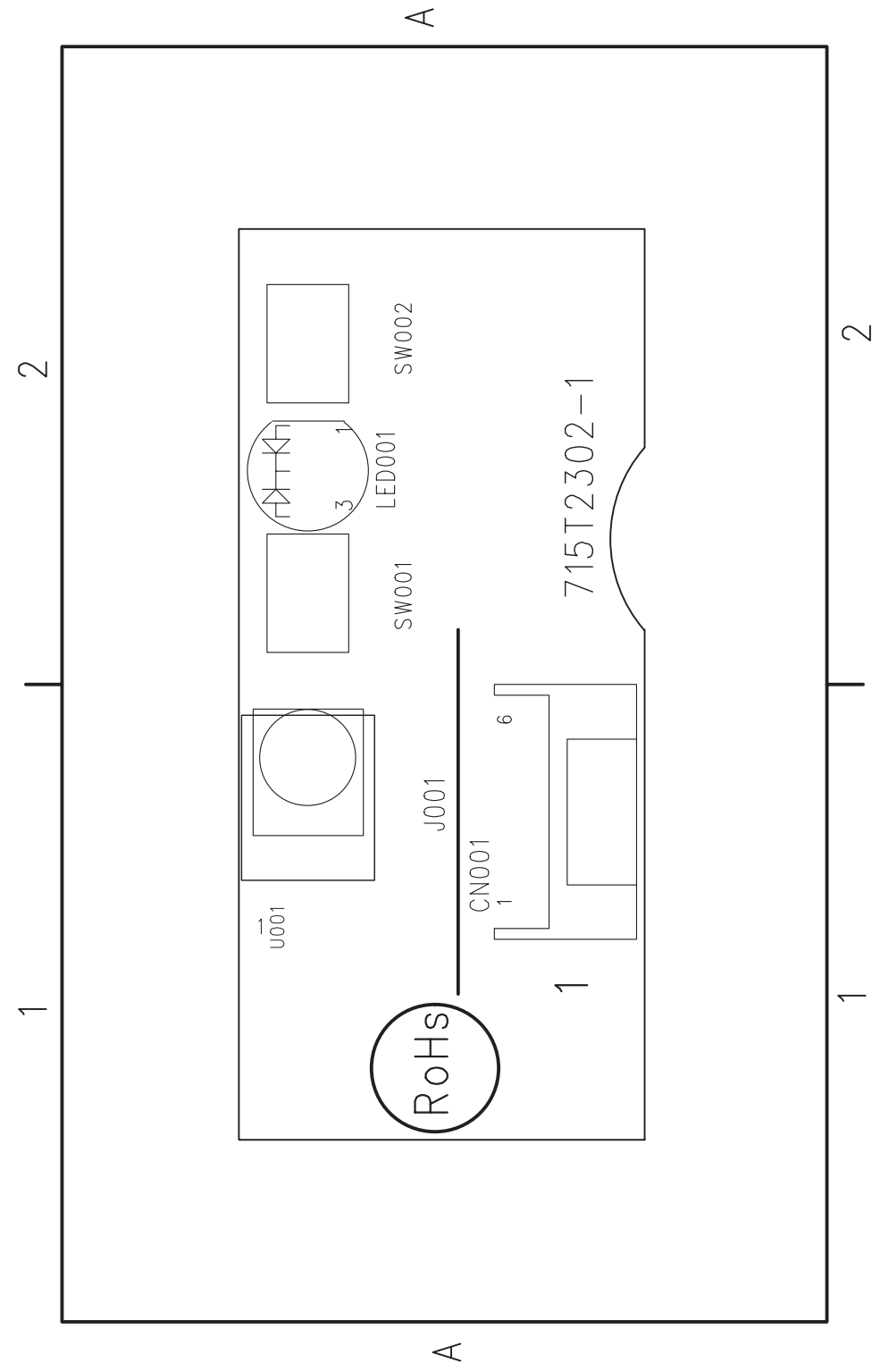
### 7. Circuit Diagrams and PWB Layouts

IR Board Layout(26"32")

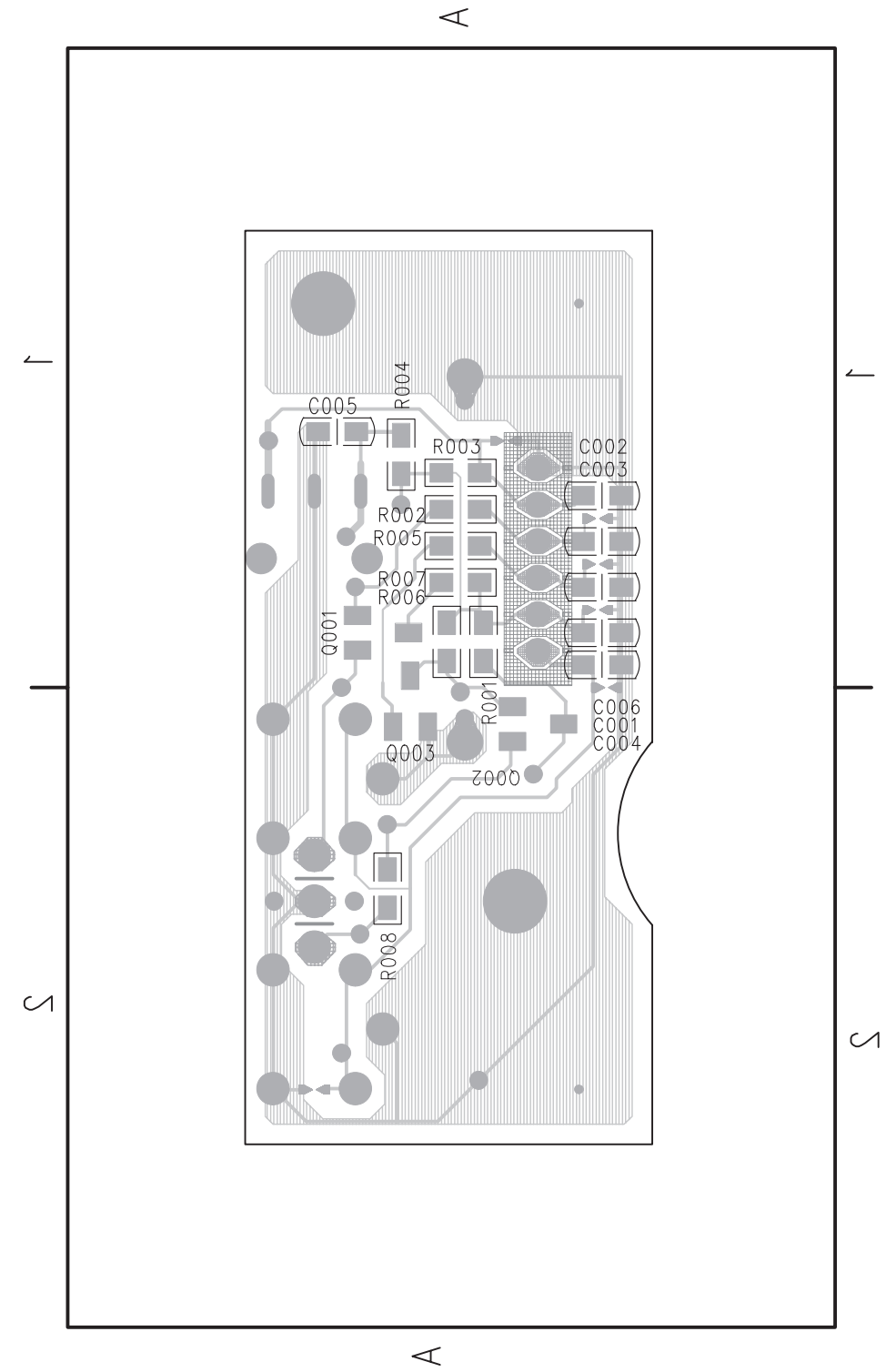




IR Board Layout(37",42")



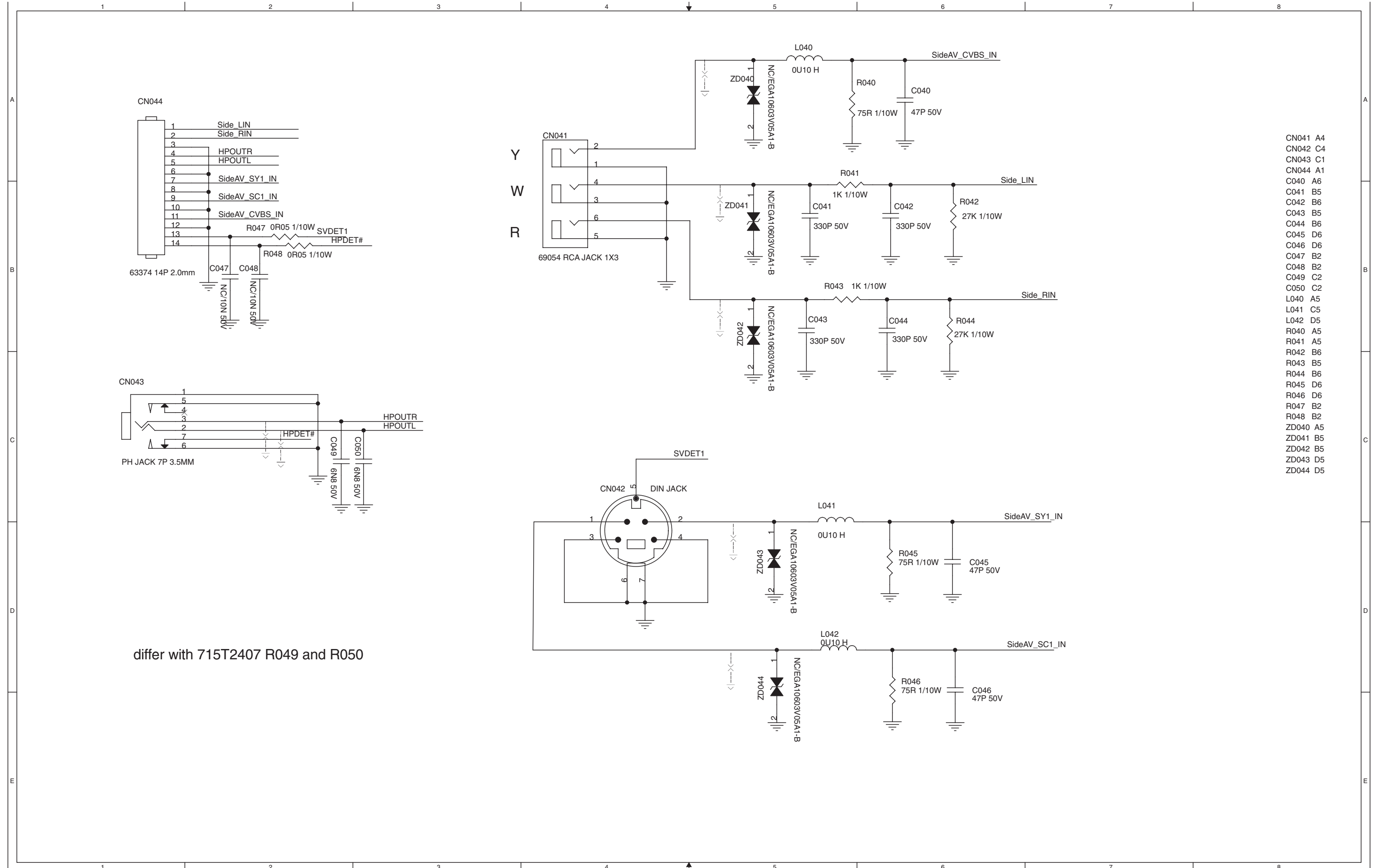
- Cn001 A1
- J001 A1
- LED001 A2
- Sw001 A2
- Sw001 A2
- U001 A1



- C001 A1
- C002 A1
- C003 A1
- C004 A1
- C005 A1
- C006 A1
- Q001 A1
- Q002 A2
- Q003 A2
- R001 A1
- R002 A1
- R003 A1
- R004 A1
- R005 A1
- R006 A1
- R007 A1
- R008 A2

### 7. Circuit Diagrams and PWB Layouts

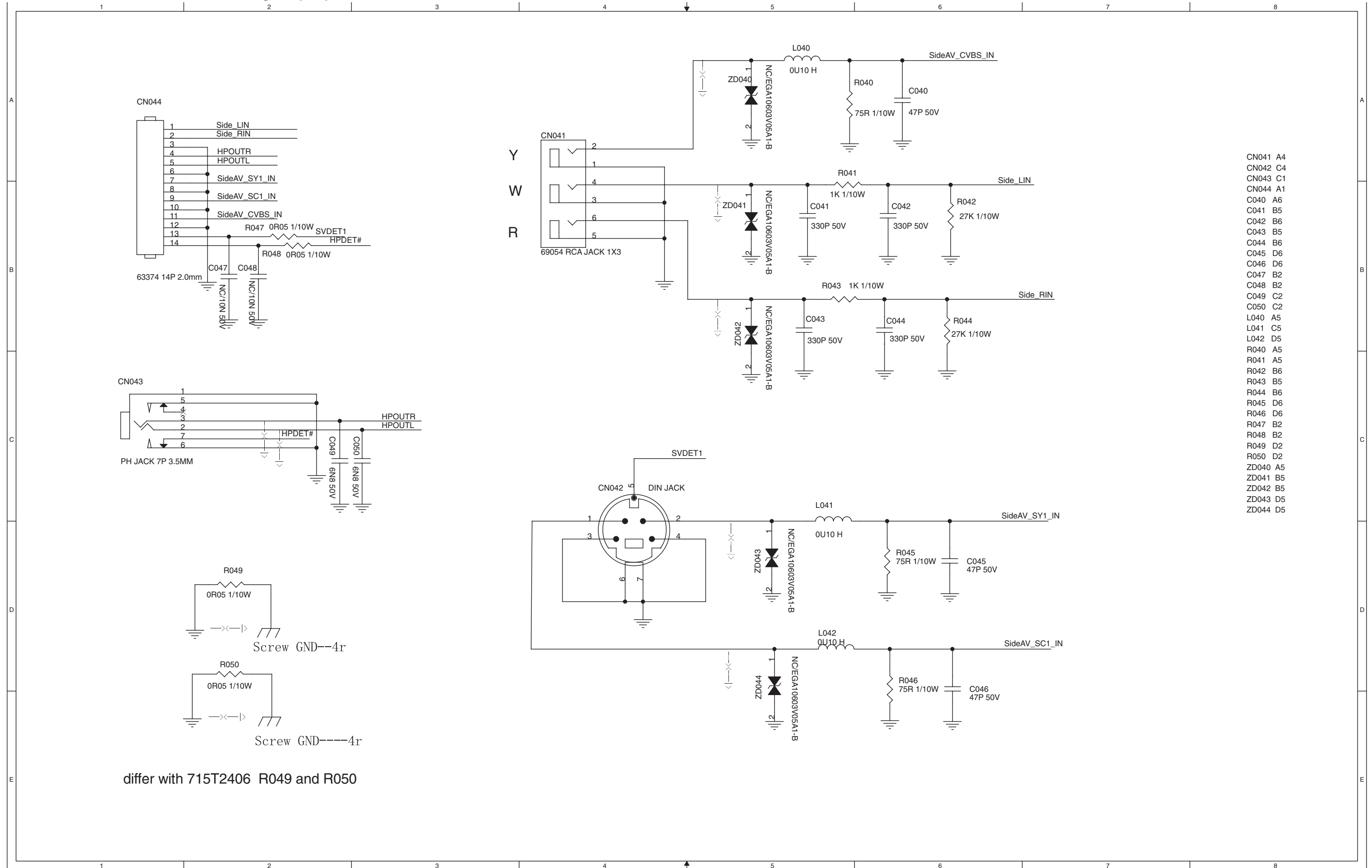
Side AV Board Schematic Diagram(26",32",37")



- CN041 A4
- CN042 C4
- CN043 C1
- CN044 A1
- C040 A6
- C041 B5
- C042 B6
- C043 B5
- C044 B6
- C045 D6
- C046 D6
- C047 B2
- C048 B2
- C049 C2
- C050 C2
- L040 A5
- L041 C5
- L042 D5
- R040 A5
- R041 A5
- R042 B6
- R043 B5
- R044 B6
- R045 D6
- R046 D6
- R047 B2
- R048 B2
- ZD040 A5
- ZD041 B5
- ZD042 B5
- ZD043 D5
- ZD044 D5

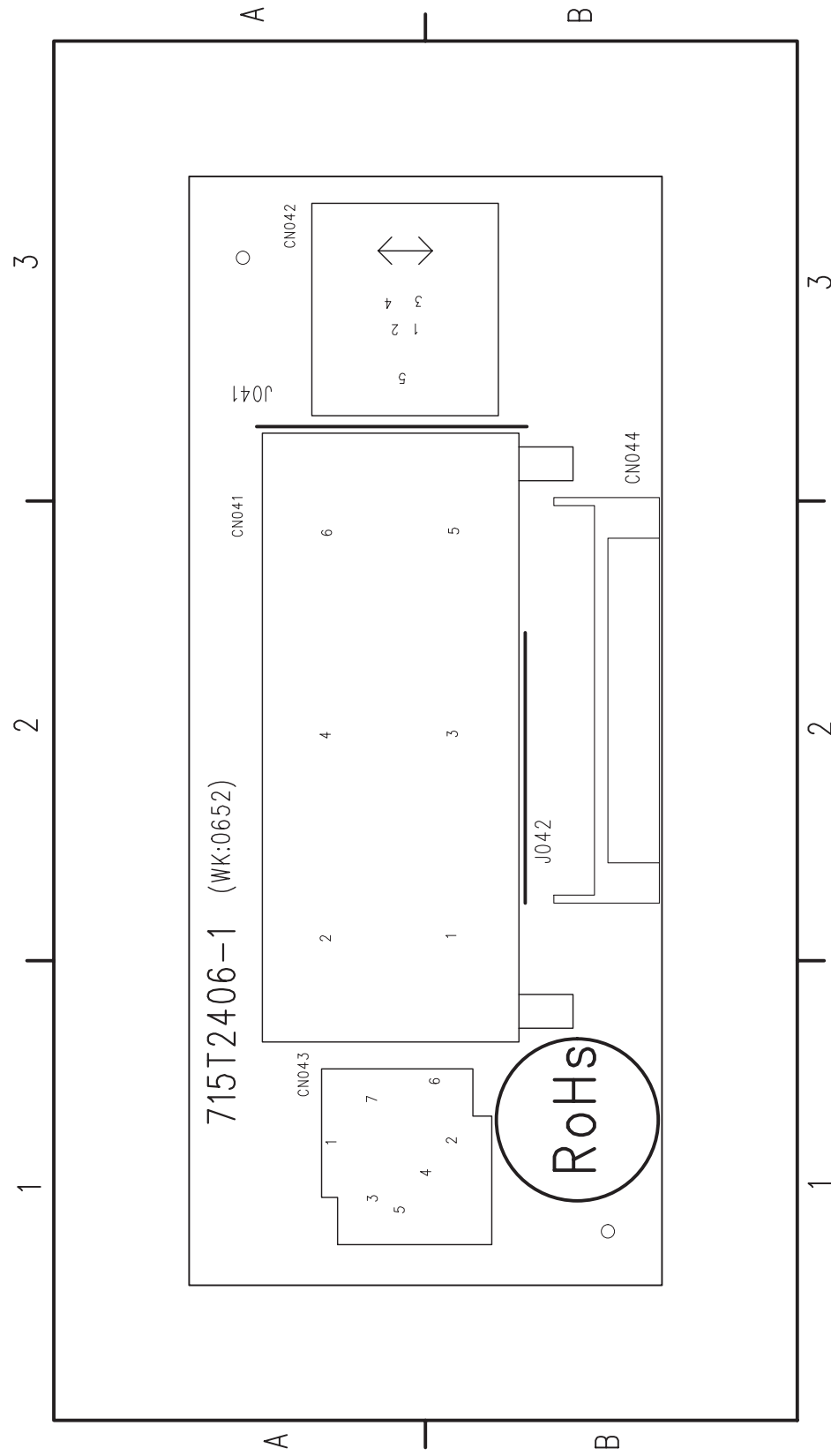
differ with 715T2407 R049 and R050

Side AV Board Schematic Diagram(42")

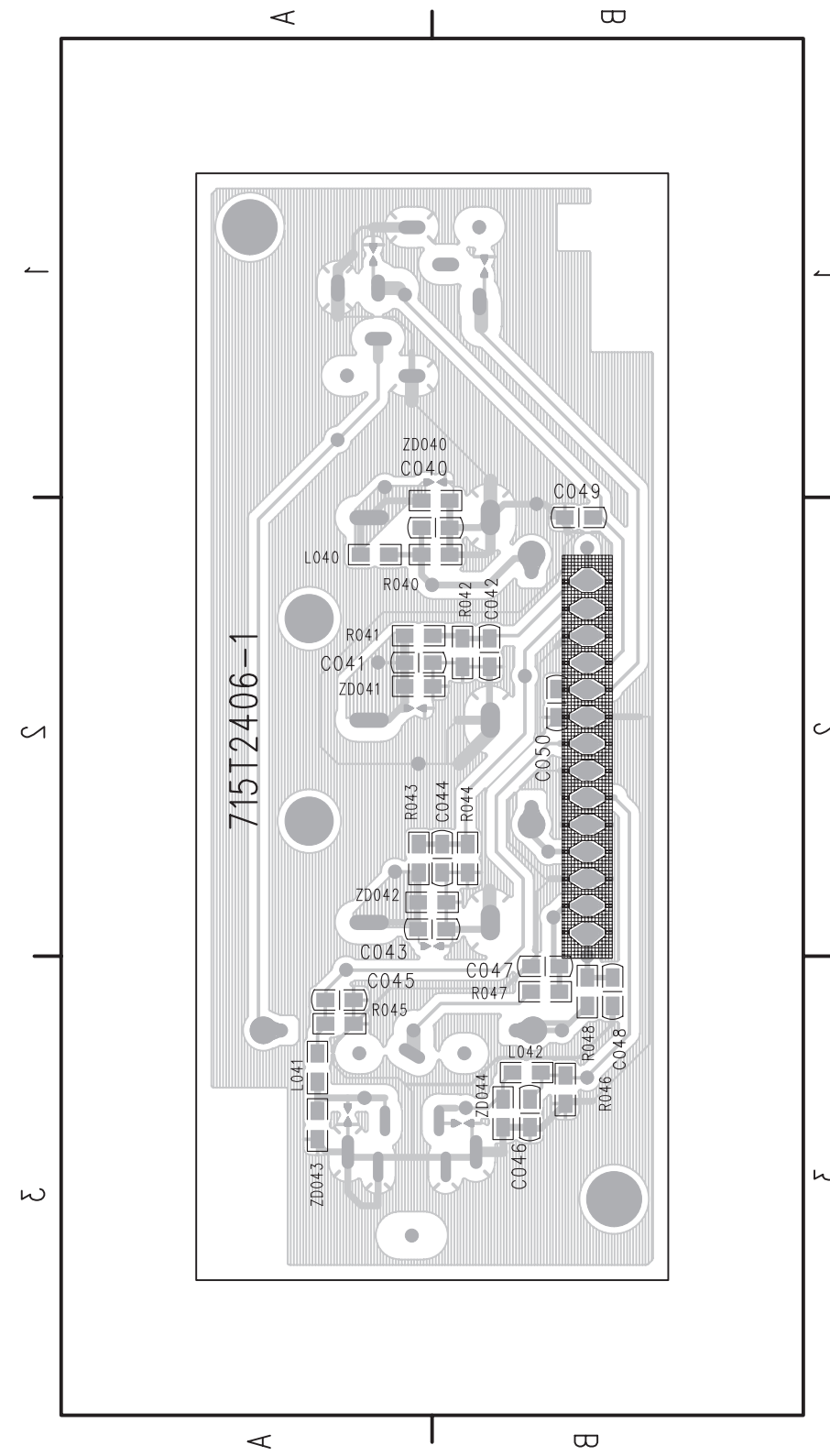


### 7. Circuit Diagrams and PWB Layouts

Side AV Board Layout(26",32",37")

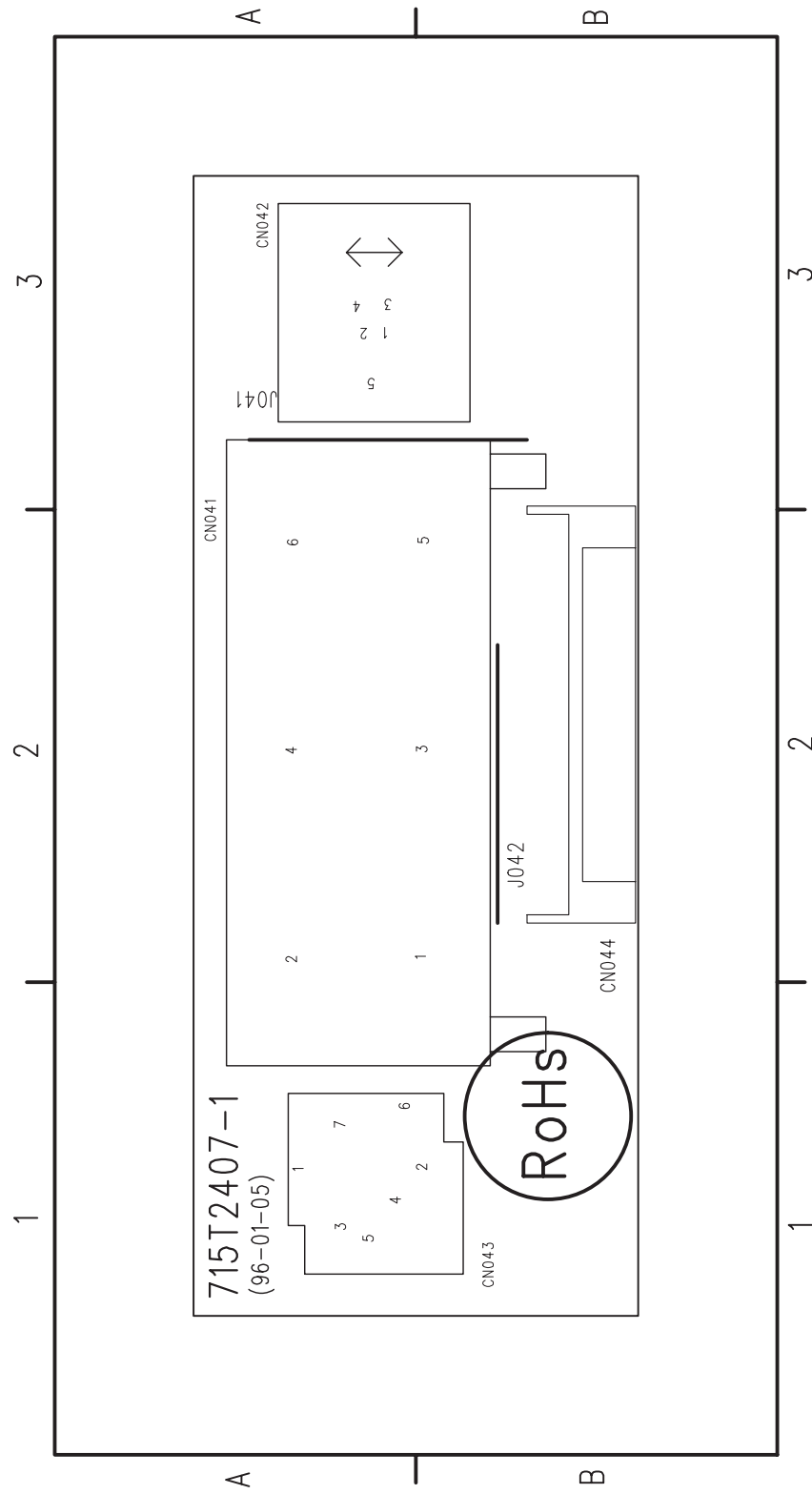


- Cn041 A2
- Cn042 A3
- Cn043 A1
- Cn044 B2
- J041 B3
- J042 B2

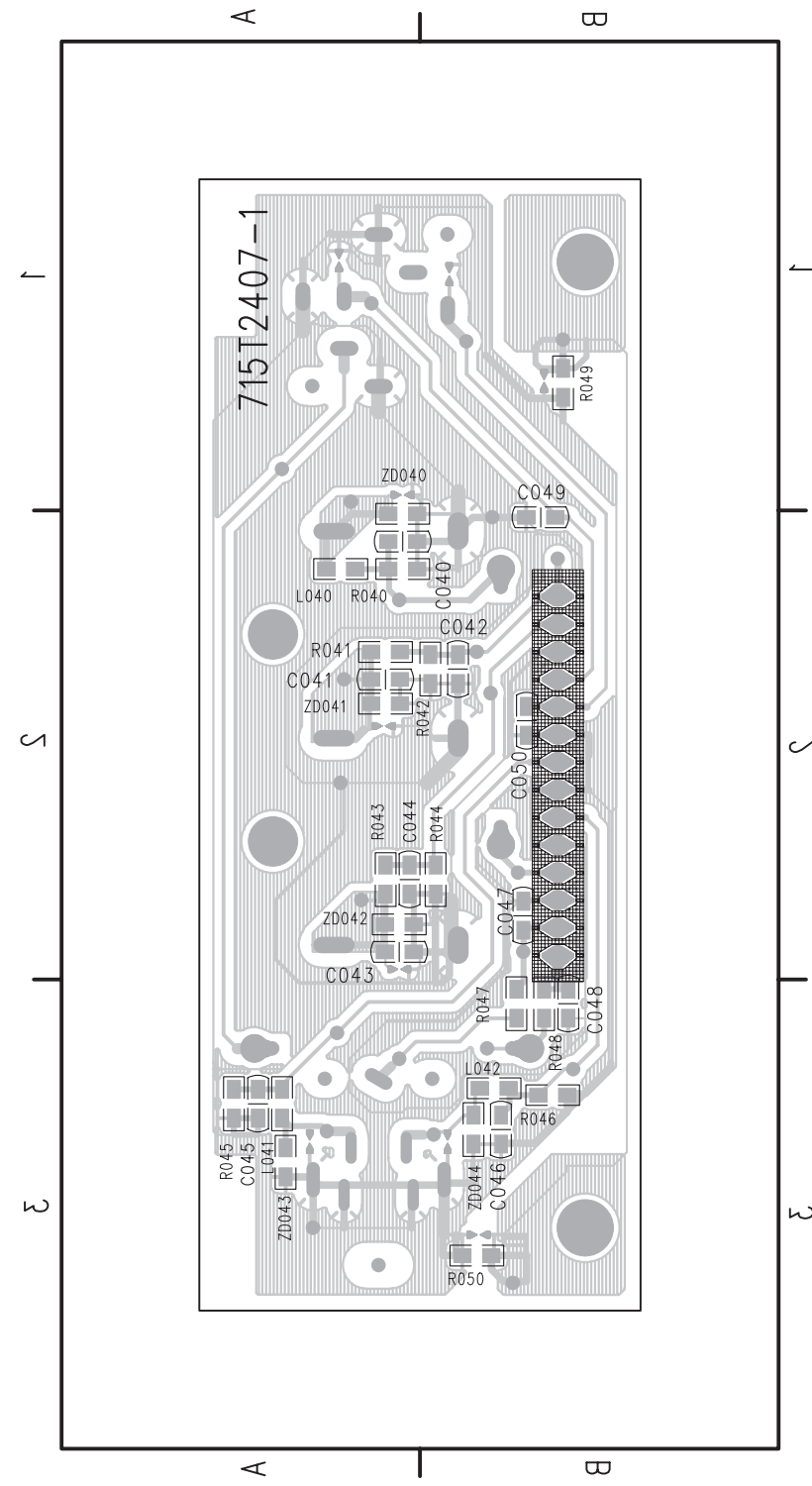


- C040 B2
- C041 A2 L040 A2
- C042 B2 L041 A3
- C043 A2 L042 B3
- C044 B2 R040 B2
- C045 A3 R041 A2
- C046 B3 R042 B2
- C047 B3 R043 A2
- C048 B3 R044 B2
- C049 B2 R045 A3
- C050 B2 R046 B3
- R047 B3
- R048 B3
- ZD040 B2
- ZD041 A2
- ZD042 A2
- ZD043 A3
- ZD044 B3

Side AV Board Layout(42")



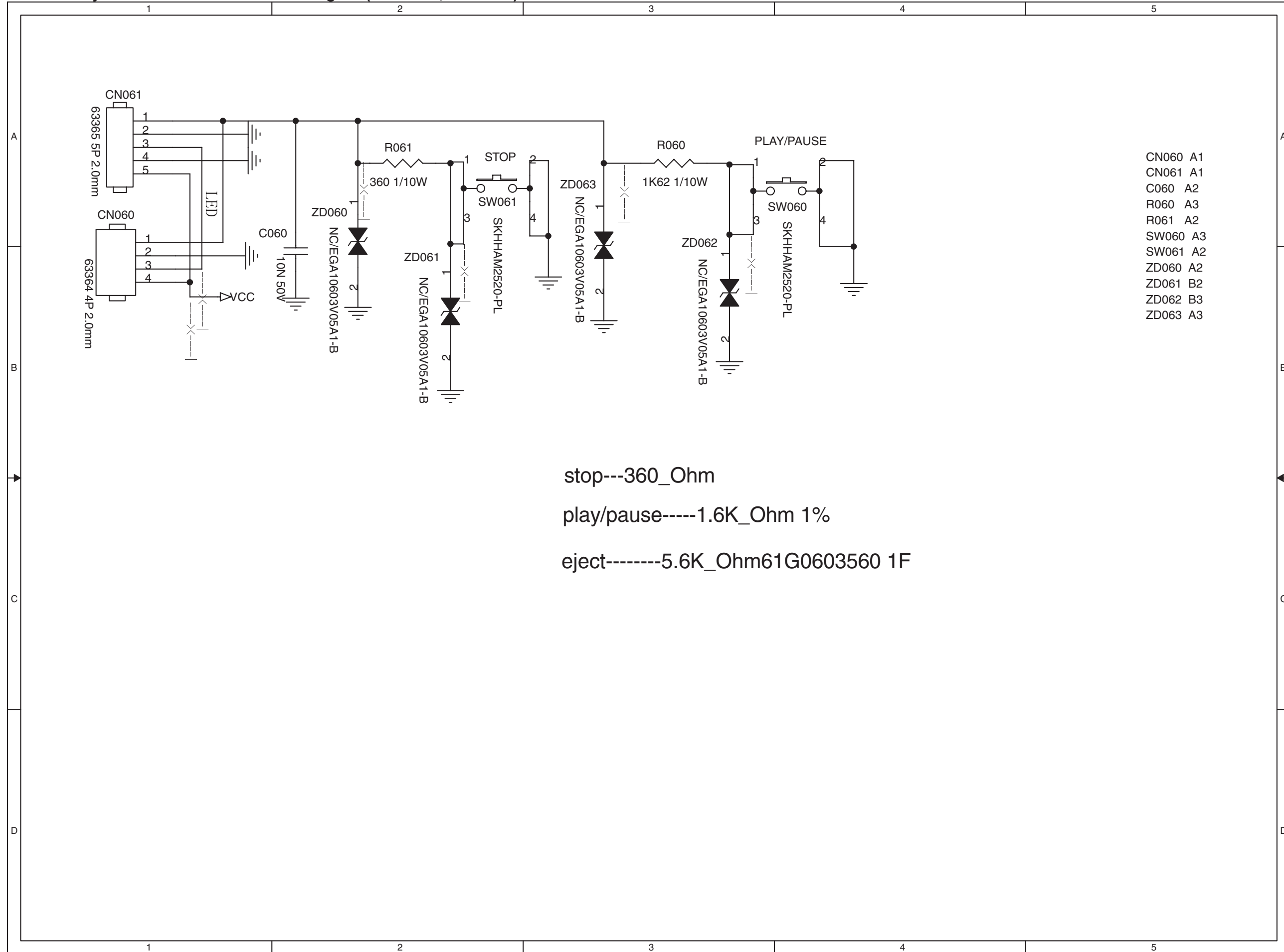
- CN041 A2
- CN042 A3
- CN043 A1
- CN044 B2
- J041 B3
- J042 B2



- C040 A2 R041 A2
- C041 A2 R042 B2
- C042 B2 R043 A2
- C043 A2 R044 B2
- C044 A2 R045 A3
- C045 A3 R046 B3
- C046 B3 R047 B3
- C047 B2 R048 B3
- C048 B3 R049 B1
- C049 B2 R050 B3
- C050 B2 ZD040 A2
- L040 A2 ZD041 A2
- L041 A3 ZD042 A2
- L042 B3 ZD043 A3
- R040 A2 ZD044 B3

7. Circuit Diagrams and PWB Layouts

DVD Key Control Board Schematic Diagram(26MD357,32MD357)



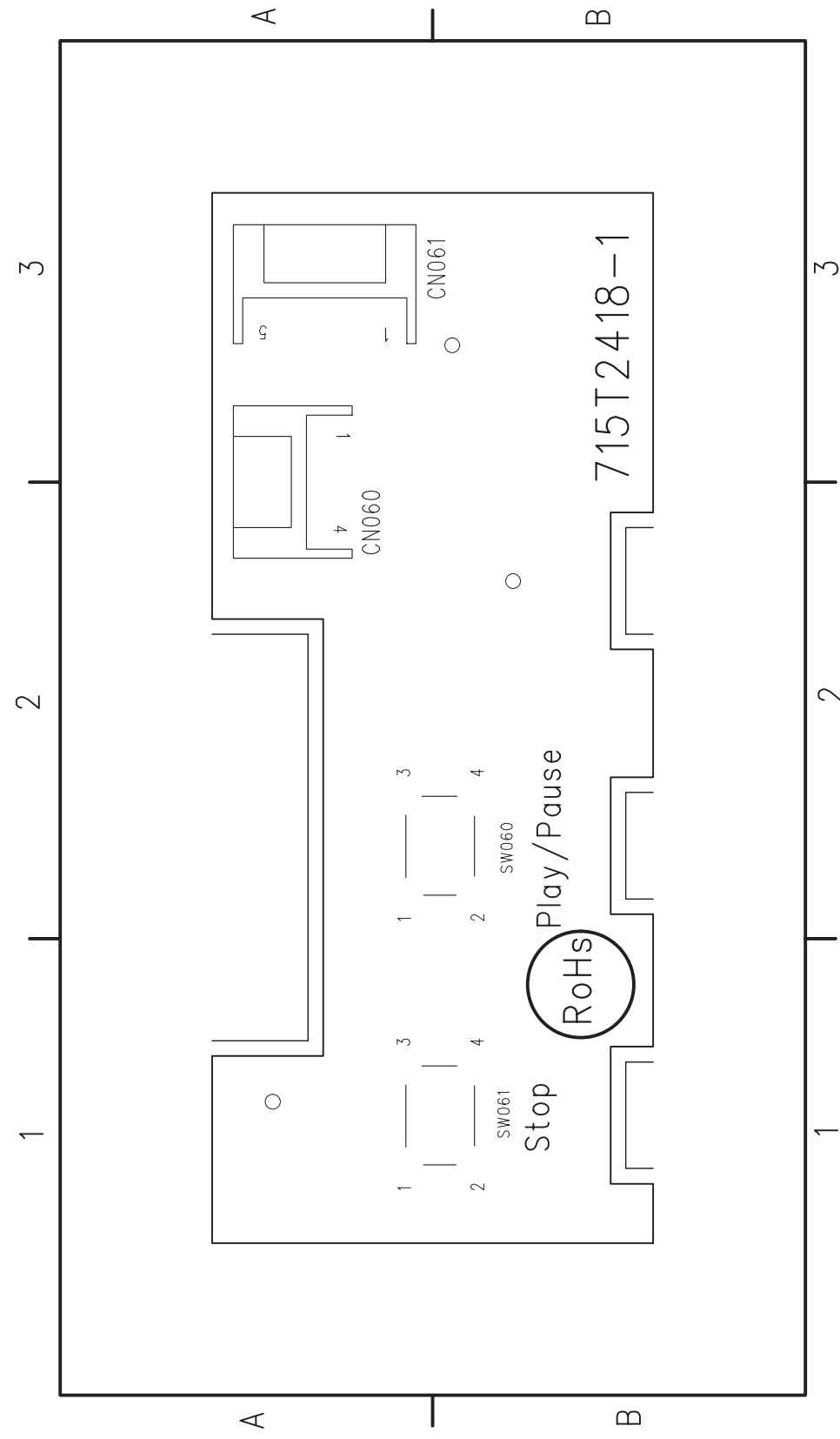
- CN060 A1
- CN061 A1
- C060 A2
- R060 A3
- R061 A2
- SW060 A3
- SW061 A2
- ZD060 A2
- ZD061 B2
- ZD062 B3
- ZD063 A3

stop---360\_Ohm

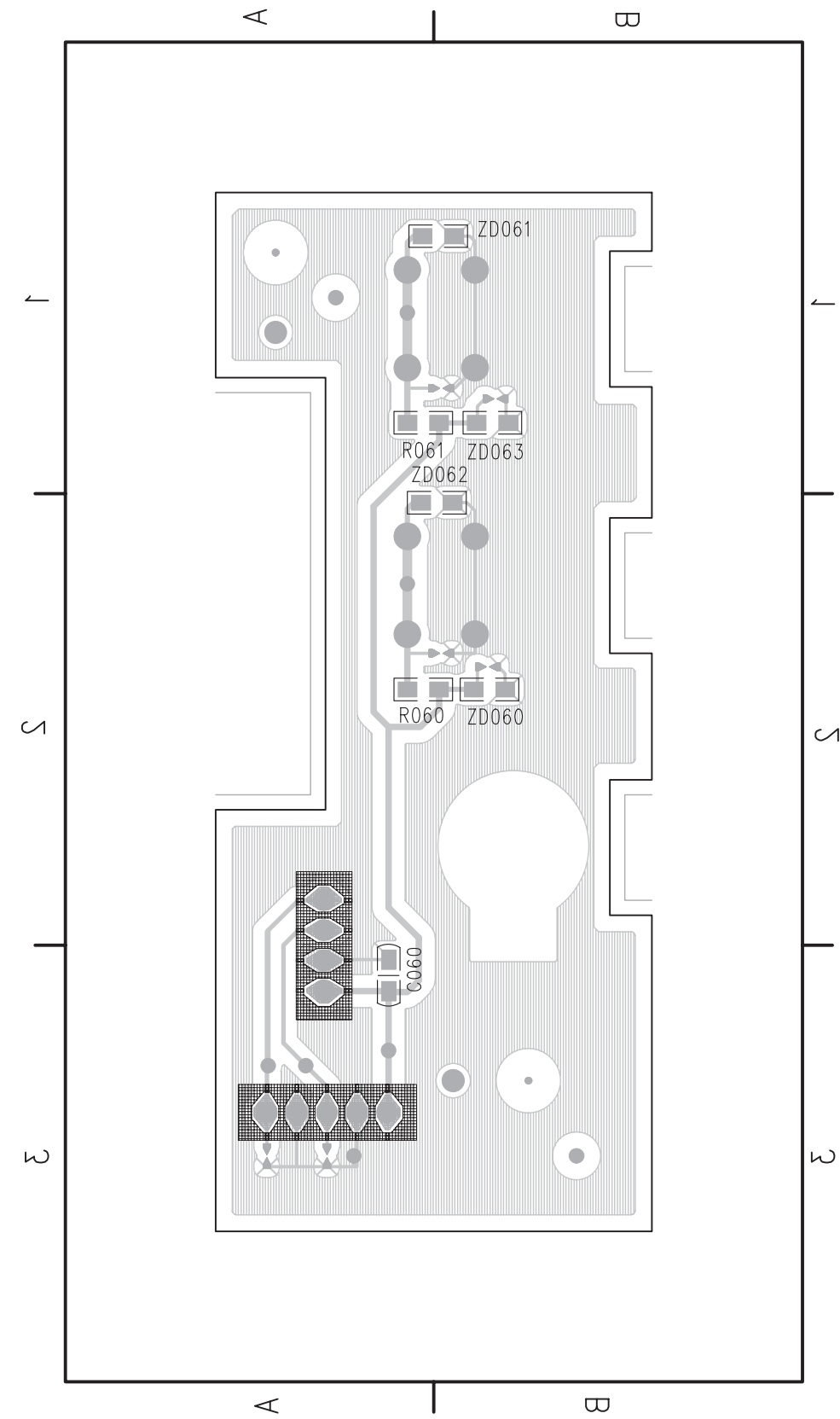
play/pause-----1.6K\_Ohm 1%

eject-----5.6K\_Ohm61G0603560 1F

DVD Key Control Board Layout(26MD357, 32MD357)



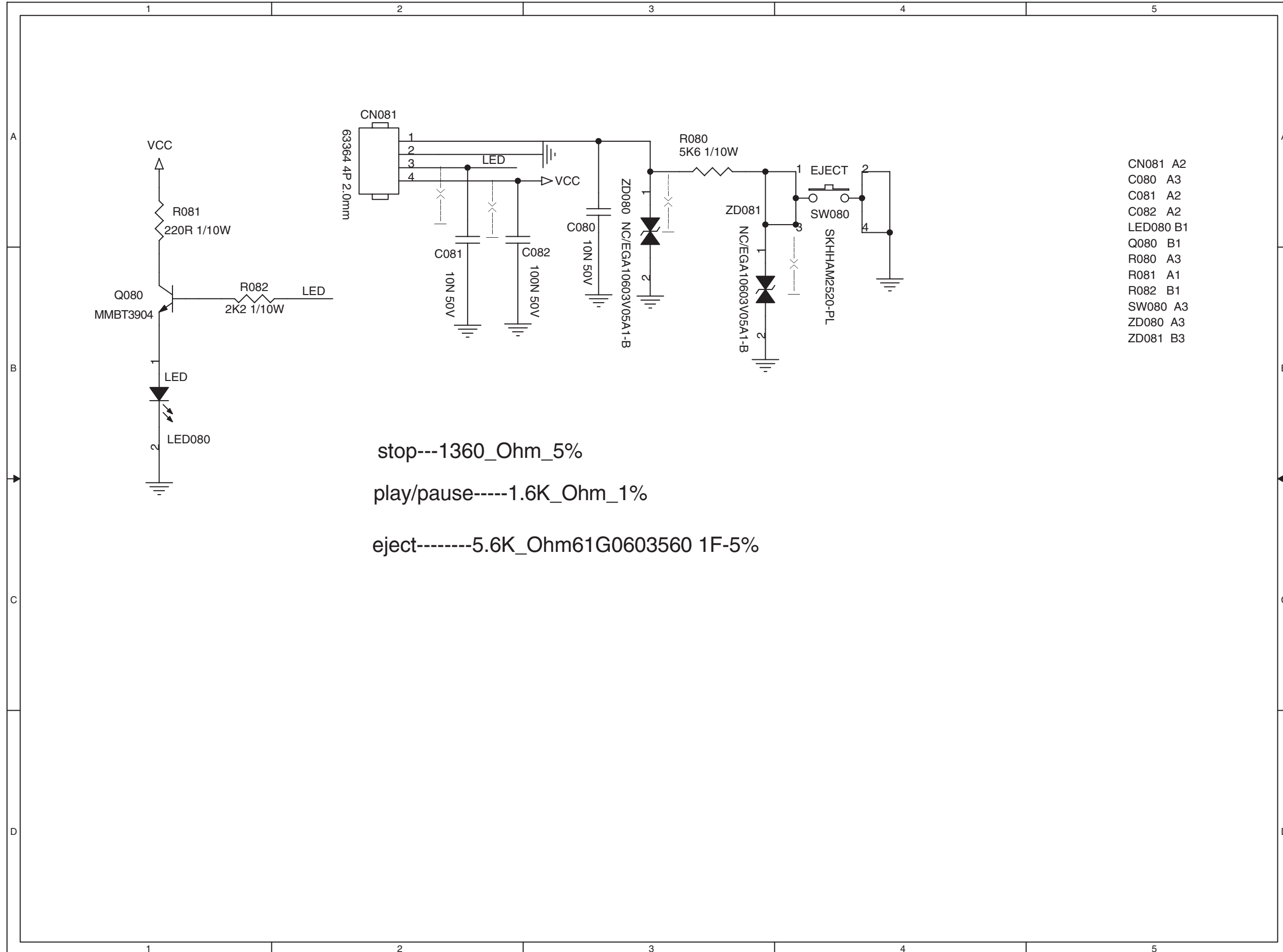
CN060 A3  
 CN061 A3  
 SW060 B2  
 SW061 B1



C060 A3  
 R060 A2  
 R061 A1  
 ZD060 B2  
 ZD061 B1  
 ZD062 B2  
 ZD063 B1

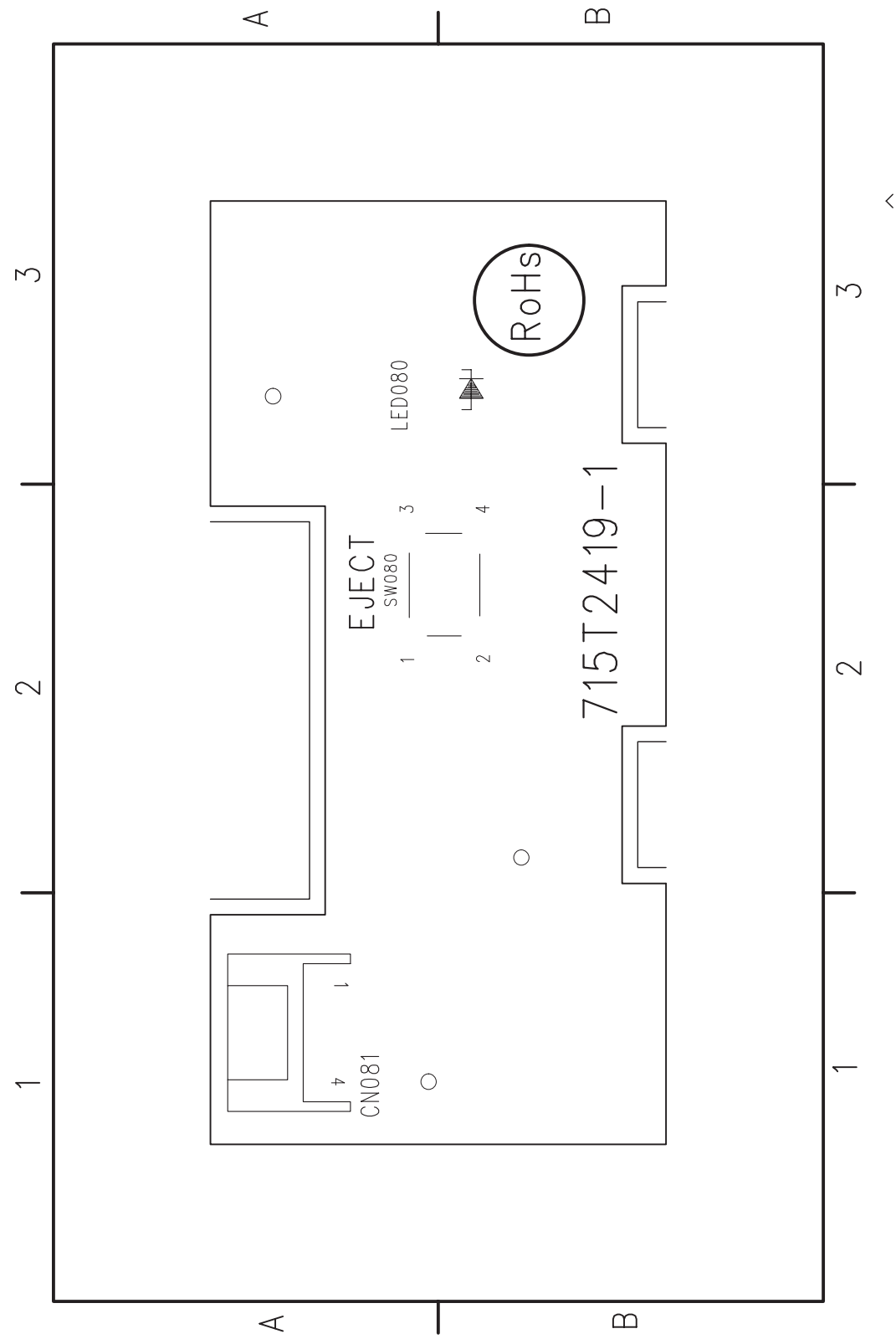
7. Circuit Diagrams and PWB Layouts

DVD LED Board Schematic Diagram(26MD357,32MD357)

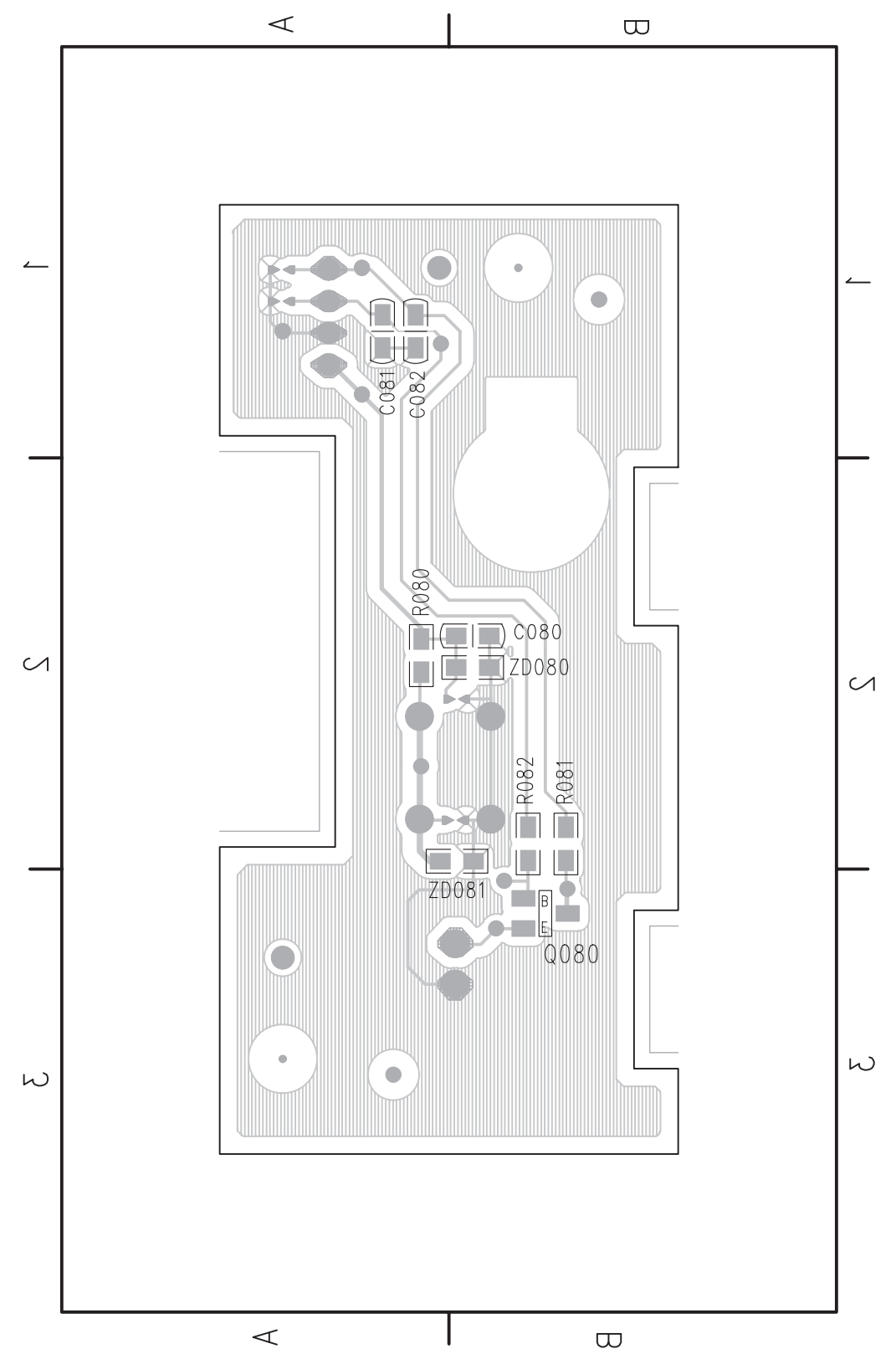




DVD LED Board Layout(26MD357,32MD357)



CN081 A1  
LED080 B3  
SW080 B2



C080 B2  
C081 A1  
C082 A1  
Q080 B3  
R080 A2  
R081 B2  
R082 B2  
ZD080 B2  
ZD081 B2

## 8. Alignments

Index of this chapter:

- 8.1 Electrical Instructions
- 8.2 ISP Instructions
- 8.3 Serial Number Definition
- 8.4 WriteMTK\_CSM\_No\_HDCP and WriteMTKHDCPKey Instructions

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. Analog TV Mode display adjustment

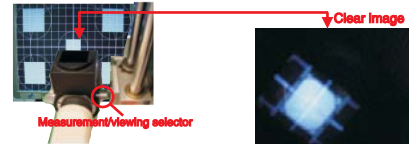
##### 8.1.1.1 White balance adjustment (B)

General set-up :

Equipment Requirements: Minolta CA-110 or Equivalent Color analyzer  
Fluke 54200 or equivalent TV RF signal generator

Input requirements:

- Input Signal Type : RF signal
1. Set to NTSC system, frequency=187.25MHZ(for NAFTAmodel), with White pattern of 100%
  2. Select Smart picture to **Personal** mode and check the x, y data.



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

Input Injection Point : TV Tuner input

Alignment method:

Initial Set-up:

1. Select source as "TV".
2. Set Smart picture as "**Personal**" and to be Contrast =50 (LPL), Brightness=50 (LPL) , at normal menu mode.
3. Apply "100% Full White" pattern by TV pattern generator.
4. Enter factory mode menu: press MENU + Numeric keys "062596" + MENU key (**FAC mode menu**). Then select "Factory" item.

Alignment:

1. Set color temperature to "NORMAL".
2. At **FAC mode menu**, adjust the CLR TEMP R, CLR TEMP G, CLR TEMP B values to meet "NORMAL" color coordinates specification below. Then store those values to NVM.
3. Set color temperature to "WARM".
4. At **FAC mode menu**, adjust the CLR TEMP R, CLR TEMP G, CLR TEMP B values to meet "WARM" color coordinates specification below. Then store those values to NVM.
5. Set color temperature to "COOL".
6. At **FAC mode menu**, adjust the CLR TEMP R, CLR TEMP G, CLR TEMP B values to meet "COOL" color coordinates specification below. Then store those values to NVM

Color temperature Normal/Warm/Cool (x, y) co-ordinates specification:

Picture Mode	x	y
Normal (8500°K)	0.291±0.005	0.302±0.005
WARM (6500°K)	0.314±0.005	0.324±0.005
COOL( 11500°K)	0.273±0.005	0.280±0.005

Table 5: Reading with Minolta CA-110.

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

	Normal/(8500°K)	Cool/(11500°K)	Warm/(6500°K)
R	117	144	118
G	112	130	116
B	108	123	144

7. Check the gray pattern should be distinguished and color bar is correct

Note:

1. Use Minolta CA-110 for color coordinates and luminance check.
2. Luminance > 400 cd/m<sup>2</sup> in the center of the screen when CLR TEMP R, CLR TEMP G, CLR TEMP B set to 128 and Brightness control at 100; Contrast control at 100
3. Reset AV setting, smart picture shall be recalled to be "**Rich**" and Contrast=60 (LPL), Brightness=55(LPL).

#### 8.1.2. PC mode display adjustment

##### 8.1.2.1 Display quality adjustment

Use timing mode as describe in 2.2, and use the POPO (pixel on pixel off) pattern

to adjust the clock until no stripe and adjust the phase until clear picture.  
 ("Auto" will be done every time switching to PC mode and mode change)  
 Check all preset 6 modes.

## 8.1.2.2 WHITE-D adjustment (B)

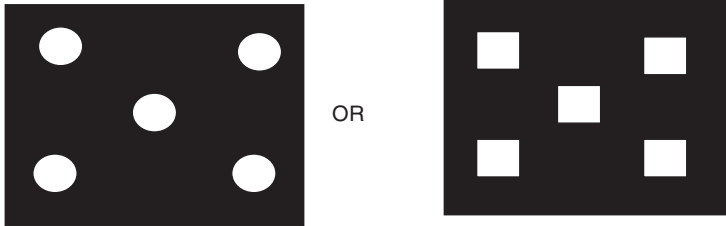
General set-up :

Equipment Requirements: Minolta CA-110 or Equivalent Color analyzer  
 Chroma 2250 or equivalent PC signal generator

Input requirements:

Input Signal Type : PC VGA signal  
 1. 1024X768/60Hz PC mode with 5 white block pattern. (see pattern-1)  
 2. Select Smart picture to **Normal** mode and check the x, y data.

Input Signal Strength : 0.7 Vp-p linear voltage.  
 Input Injection Point : PC D-SUB input



Pattern-1

Alignment method:

Initial Set-up:

1. Select source as "PC".
2. Set Contrast = 50 (LPL) and Brightness=50 (LPL) , at normal menu mode.
3. Apply "5 white block" pattern by VGA pattern generator.
4. Enter factory mode menu: press MENU + Numeric keys "062596" + MENU key (FAC mode menu). Then select "Factory" item.

Alignment:

1. At FAC mode menu, select AUTO\_COLOR item. Then press "OK" key to adjust ADC\_GAIN\_R, ADC\_GAIN\_G, ADC\_GAIN\_B and ADC\_OFFSET\_R, ADC\_OFFSET\_G, ADC\_OFFSET\_B. Then store those values to NVM.
2. Set color temperature to "NORMAL".
3. At FAC mode menu, adjust the CLR TEMP R, CLR TEMP G, CLR TEMP B values to meet "NORMAL" color coordinates specification below. Then store those values to NVM.
4. Set color temperature to "WARM".
5. At FAC mode menu, adjust the CLR TEMP R, CLR TEMP G, CLR TEMP B values to meet "WARM" color coordinates specification below. Then store those values to NVM.
6. Set color temperature to "COOL".
7. At FAC mode menu, adjust the CLR TEMP R, CLR TEMP G, CLR TEMP B values to meet "COOL" color coordinates specification below. Then store those values to NVM.

Color temperature Normal/Warm/Cool (x, y) co-ordinates specification:

	X	Picture Mode	y
Normal (8500°K)	0.291±0.005		0.302±0.005
WARM (6500°K)	0.314±0.005		0.324±0.005
COOL( 11500°K)	0.273±0.005		0.280±0.005

Readings with Minolta CA-110.

## 8.1.2.3 Check grayscale

Apply 32 gray pattern.  
 Check the color poor & noise condition of 32 gray pattern.

## 8. Alignments

## 8.1.3. YPbPr mode display adjustment

## 8.1.3.1 White Balance adjustment (B)

General set-up :

Equipment Requirement: Minolta CA-110 or Equivalent Color analyzer  
Quantum Data Pattern Generator 801GD or 802G or Fluke 54200

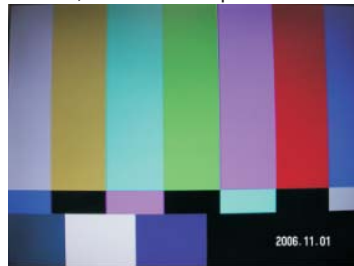
Input requirements:

Input Signal Type : YPbPr signal  
1. 1080i mode, SMPTE color pattern by 801GD or 802G.or 576i (PAL system), color bar with black/white pattern by Fluke 54200.  
2. Select Smart picture to **Personal** mode and check the x, y data.

Input Signal Strength : 1 Vpp for Y signal ; 350 mVpp for Pb & Pr signal

Input Injection Point : AV1 YPbPr (RAC jack)

1080i, SMPTE color pattern.



576i (PAL system), color bar with black and white pattern



Alignment method:

Initial Set-up:

1. Select source as "AV1".
2. Set Smart picture as "Personal" and to be Contrast =50 (LPL), Brightness=50 (LPL) , at normal menu mode.
3. Apply "SMPTE color" pattern or "color bar with black & white" pattern by signal generator.
4. Enter factory mode menu: press MENU + Numeric keys "062596" + MENU key (FAC mode menu). Then select "Factory" item.

Alignment:

1. At FAC mode menu, select AUTO\_COLOR item. Then press "OK" key to adjust ADC\_GAIN\_R, ADC\_GAIN\_G, ADC\_GAIN\_B and ADC\_OFFSET\_R, ADC\_OFFSET\_G, ADC\_OFFSET\_B. Then store those values to NVM.
2. Apply full white pattern.
3. Set color temperature to "NORMAL".
4. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "NORMAL" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "NORMAL" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.
5. Set color temperature to "WARM".
6. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "WARM" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "WARM" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.
7. Set color temperature to "COOL".
8. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "COOL" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "COOL" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.

Color temperature Normal/Warm/Cool (x, y) co-ordinates specification:

Picture Mode	x	y
Normal (8500°K)	0.291±0.010	0.302±0.010
WARM (6500°K)	0.314±0.010	0.324±0.010
COOL( 11500°K)	0.273±0.010	0.280±0.010

8.1.3.2 Check grayscale

Apply 32 gray pattern.  
Check the color poor & noise condition of 32 gray pattern

8.1.4. HDMI mode display adjustment

8.1.4.1 White Balance adjustment (B)

General set-up :

Equipment Requirement: Minolta CA-110 or Equivalent Color analyzer  
Quantum Data Pattern Generator 802BT or 881

Input requirements:

Input Signal Type : HDMI signal  
1. 1080i mode, full white pattern.  
2. Select Smart picture to **Personal** mode and check the x, y data.

Input Signal Strength : 4 channels TMDS signal  
Input Injection Point : HDMI1 input.

Alignment method:

Initial Set-up:

1. Select source as "HDMI1".
2. Set Smart picture as "**Personal**" and to be Contrast =50 (LPL), Brightness=50 (LPL) , at normal menu mode.
3. Apply full white pattern by Quantum Data signal generator.
4. Enter factory mode menu: press MENU + Numeric keys "062596" + MENU key (FAC mode menu). Then select "Factory" item.

Alignment:

1. Set color temperature to "NORMAL".
2. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "NORMAL" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "NORMAL" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.
3. Set color temperature to "WARM".
4. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "WARM" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "WARM" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.
5. Set color temperature to "COOL".
6. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "COOL" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "COOL" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.

Color temperature Normal/Warm/Cool (x, y) co-ordinates specification:

Picture Mode	x	y
Normal (8500°K)	0.291± 0.010	0.302± 0.010
WARM (6500°K)	0.314± 0.010	0.324± 0.010
COOL( 11500°K)	0.273± 0.010	0.280± 0.010

8.1.5. DTV (ATSC) mode display adjustment

8.1.5.1 White Balance adjustment (B)

General set-up :

Equipment Requirement: Minolta CA-110 or Equivalent Color analyzer.  
ATSC signal generator - Sencore ATSC997 or equivalent generator

Input requirements:

Input Signal Type : RF signal  
1. Set center frequency=69MHz, playing transport stream with white pattern.  
2. Select Smart picture to **Personal** mode and check the x, y data.

Input Signal Strength : 60 dBuV  
Input Injection Point : RF input

Alignment method:

Initial Set-up:

1. Select source as "TV".
2. Set Smart picture as "**Personal**" and to be Contrast =50 (LPL), Brightness=50 (LPL) , at normal menu mode.
3. Apply white pattern by ATSC997 signal generator.
4. Enter factory mode menu: press MENU + Numeric keys "062596" + MENU key (FAC mode menu). Then select "Factory" item.

Alignment:

1. Set color temperature to "NORMAL".
  2. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "NORMAL" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "NORMAL" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.
  3. Set color temperature to "WARM".
  4. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "WARM" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "WARM" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.
  5. Set color temperature to "COOL".
  6. Copy CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values from "COOL" color temperature in Analog TV mode. Check whether (x,y) color coordinates meet "COOL" color specification below. If color coordinates are out of specification, fine-tune CLR\_TEMP\_R, CLR\_TEMP\_G and CLR\_TEMP\_B values. Then store those values to NVM.
- Color temperature Normal/Warm/Cool (x, y) co-ordinates specification:

Picture Mode	x	y
Normal (8500°K)	0.291±0.010	0.302±0.010
WARM (6500°K)	0.314±0.010	0.324±0.010
COOL( 11500°K)	0.273±0.010	0.280±0.010

8.1.6. HDMI HDCP Key Download

8.1.6.1 HDCP Key Encryption

The handling of HDCP keys must be done in the most secure way.

The HDCP keys purchased / delivered from Digital Content Protection, LLC are first encrypted by MTK encryption software. Then the encrypted keys are stored in secure room or secure PC in production line.

8.1.6.2 HDCP Key Downloading to Set

In production line PC, execute HDCP key programming software to load encrypted key data from secureroom or secure PC to specific positions of set's NVM via UART interface of MT537x chip.

8.1.6.3 Test HDCP Key

- 8.1.6.3.1. Use QuantumData 802BT or equivalent instrument with HDCP test pattern to verify HDCP key loaded in the set. The "PASS" information will be shown in the lower center block of the screen when HDCP key is correctly loaded.
- 8.1.6.3.2 Use DVD player Pioneer DVD player xxx or equivalent DVD player with HDMI output to verify HDCP key loaded in the set. The video should be smoothly displayed when HDCP key is correctly loaded

## 8.2 Service Tools

### 8.2.1 ComPair

#### Introduction

ComPair (Computer Aided Repair) is a Service tool for Philips Consumer Electronics products. and offers the following:

1. ComPair helps you to quickly get an understanding on how to repair the chassis in a short and effective way.
2. ComPair allows very detailed diagnostics and is therefore capable of accurately indicating problem areas. You do not have to know anything about I<sup>2</sup>C or UART commands yourself, because ComPair takes care of this.
3. ComPair speeds up the repair time since it can automatically communicate with the chassis (when the uP is working) and all repair information is directly available.
4. ComPair features TV software upgrade possibilities.

#### Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The (new) ComPair II interface box is connected **to the PC** via an USB cable. For the TV chassis, the ComPair interface box and the TV communicate via a bi-directional cable via the service connector(s).

#### How to Connect

This is described in the ComPair chassis fault finding database.

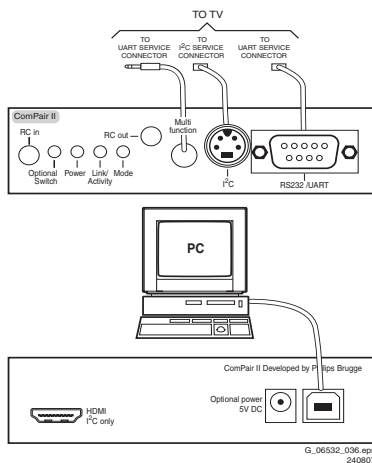


Figure 8-1 ComPair II interface connection

**Caution:** It is compulsory to connect the TV to the PC as shown in the picture above (with the ComPair interface in between), as the ComPair interface acts as a level shifter. If one connects the TV directly to the PC (via UART), ICs will be blown!

#### How to Order

ComPair II order codes:

- ComPair II interface: 3122 785 91020.
- ComPair32 CD (update): 3122 785 60160.
- ComPair I<sup>2</sup>C interface cable: 3122 785 90004 (to be used with chassis L01, A02, A10, EMx, TPM1.xA, etc ...).
- ComPair I<sup>2</sup>C interface extension cable: 3139 131 03791 (to be used with chassis L01, A02, A10, L04, LC4, LC7.1, LC7.2).
- ComPair UART interface cable: 3122 785 90630 (to be used with chassis LC4, EJ3, BJ2, BL2, BP2, ...).
- ComPair RS232 cable: 3104 311 12742 (to be used with chassis Q52x).
- ComPair I<sup>2</sup>C interface cable (3.5 mm Jack-to-SVHS plug): 9965 100 07325 (to be used with chassis LC7.5).  
**Note:** For I<sup>2</sup>C it is **compulsory** to use this particular cable.
- ComPair UART interface cable (3.5 mm Jack-to-Jack): 3138 188 75051 (to be used with chassis LC7.5).

**Note:** For UART it is also allowed to use a standard “Jack-to-Jack” cable.

**Note:** If you encounter any problems, contact your local support desk.

### 8.2.2 LVDS Tool

Support of the LVDS Tool has been discontinued.

## 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

This is a new TV chassis, specifically developed for NTSC/ATSC/QAM reception. The key components are :

MT537x: DTV backend decoder and TV controller (MT5371 for WXGA & MT5373 for full HD).

MT5112BD: Channel Decoder

WM8776S: Stereo Audio Codec

Chassis Function Description

Terrestrial Reception

The TV receives multimedia information by tuning to one of many 6 MHz input channels available via a terrestrial connection (including NTSC & ATSC).

When the input channel is an analog channel, the signal is processed via the NTSC decoder and the VBI data decoder. If the input channel is a digital channel, the signal is processed via the channel decoder and DTV backend decoder.

Cable Reception

The TV receives multimedia information by tuning to one of many 6 MHz input channels available via a cable connection (NTSC & Free QAM). When the input channel is a digital channel, it is processed via the QAM demodulator.

Signal Processing

The key part in the system, the MT537x, performs almost all key features, like video quality enhancement, smooth picture quality for motion deinterlacer, and others. The special color processing technology provided favorite and natural color for TV. It is a highly integrated SOC IC with an ARM microcontroller core. MT537x support transport de-multiplexer, MPEG-2 video decoder, AC3 audio decoder, LVDS transmitter, TV decoder and HDMI Receiver. It is also integrated with high speed VGA ADC, high resolution Video/Audio ADC, 90db Audio DAC and 12-bit Video DAC. It will provide very fine quality for TV.

The audio processing is processed in WM8776S. It is a high performance, stereo audio codec with 6 channel input selector and is ideal for surround sound processing. It supports fully independent sample for ADC and DAC. Its audio data interface supports I<sup>2</sup>S and DSP formats.



## 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

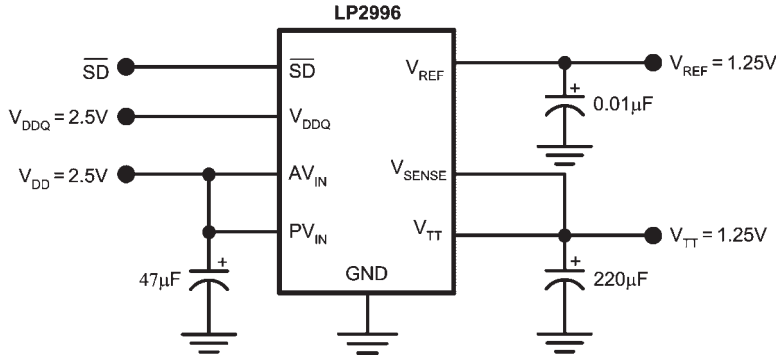
TFT	Thin Film Transistor
SRAM	Static RAM
STBY	STandBY
SOG	Sync On Green
SVGA	800x600 (4:3)
SVHS	Super Video Home System
SW	Software
SWAN	Spatial temporal Weighted Averaging Noise reduction
SXGA	1280x1024
TMDS	Transmission Minimized Differential Signalling
UXGA	1600x1200 (4:3)
V	V-sync to the module
VCR	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

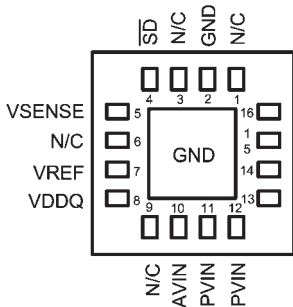
This section shows the internal block diagrams and pin configurations of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

9.3.1 IC Data Sheets-LP2996(U503)

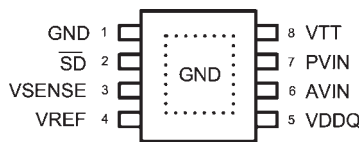
Typical Application Circuit



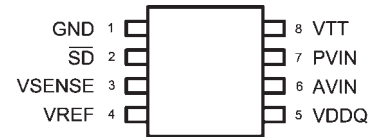
Pin Configuration



LLP-16 Layout



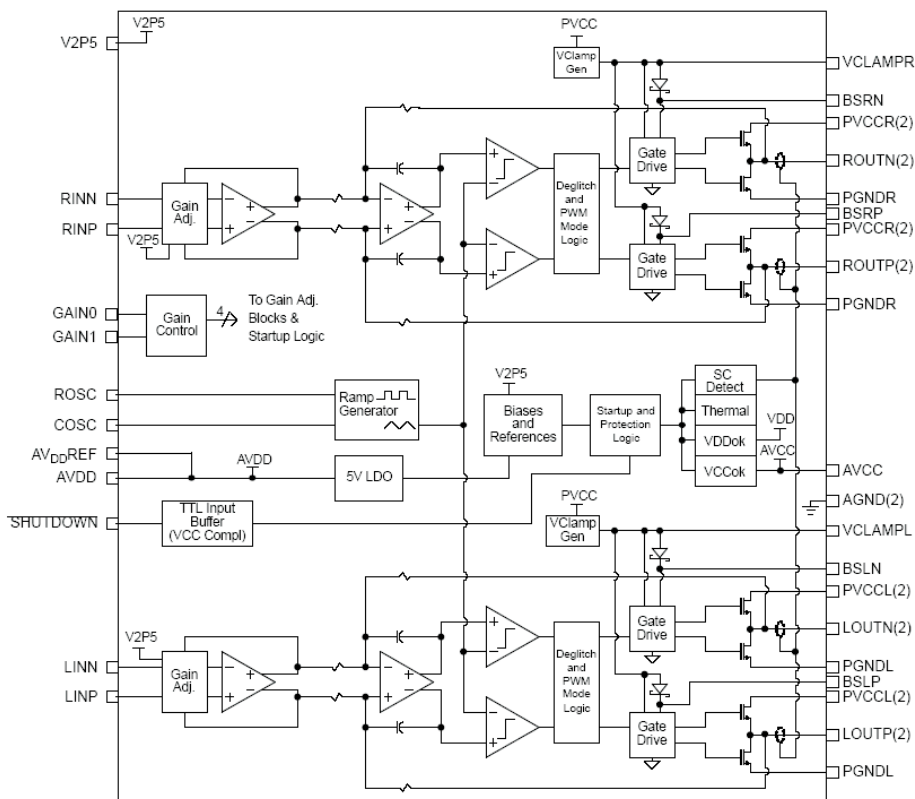
PSOP-8 Layout



SO-8 Layout

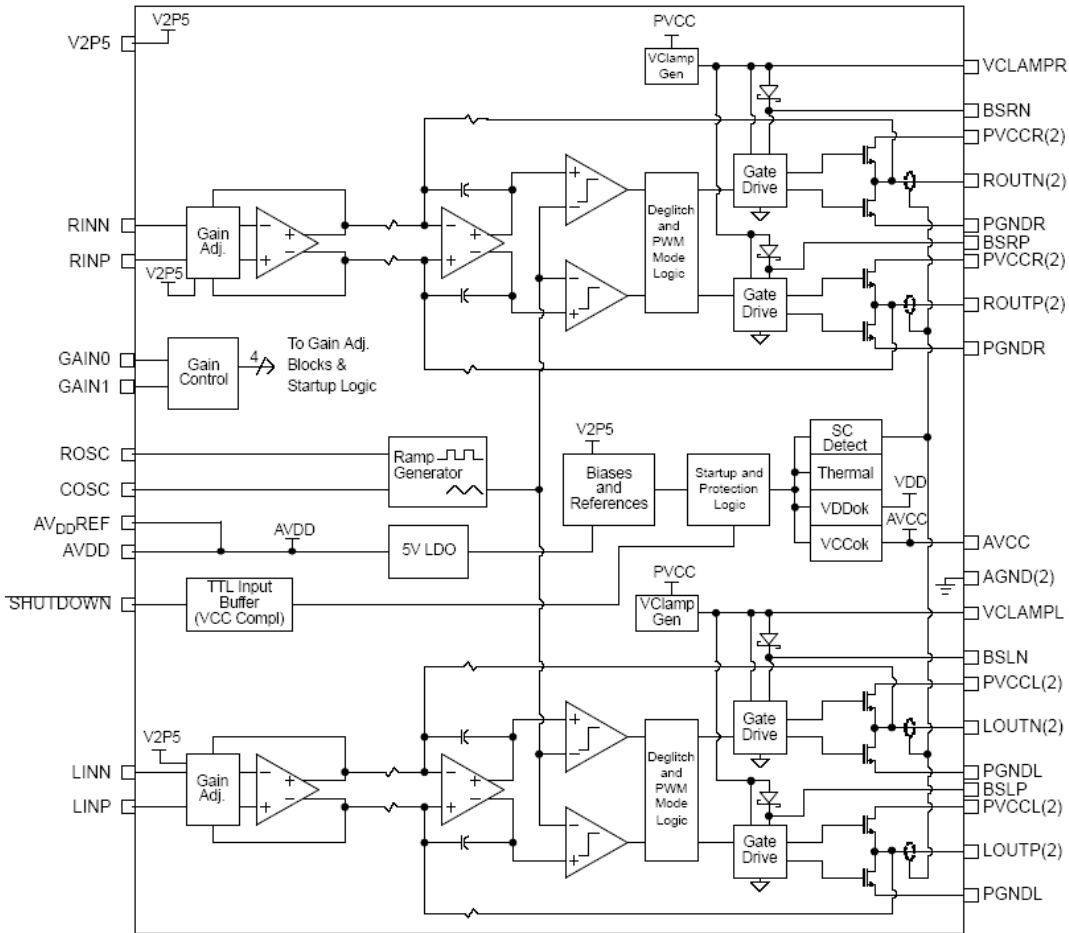
9.3.2 IC Data Sheets-TPA3005D2(U801)

FUNCTIONAL BLOCK DIAGRAM

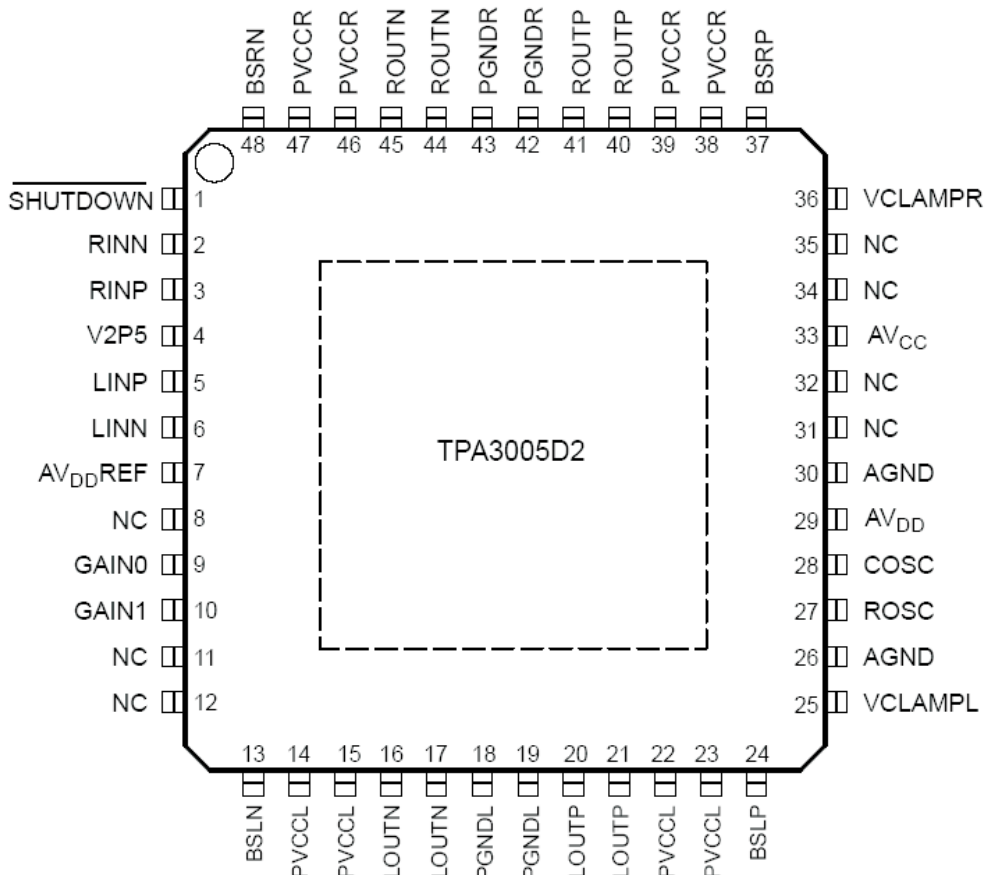


9.3.2 IC Data Sheets-TPA3005D2(U801)

FUNCTIONAL BLOCK DIAGRAM

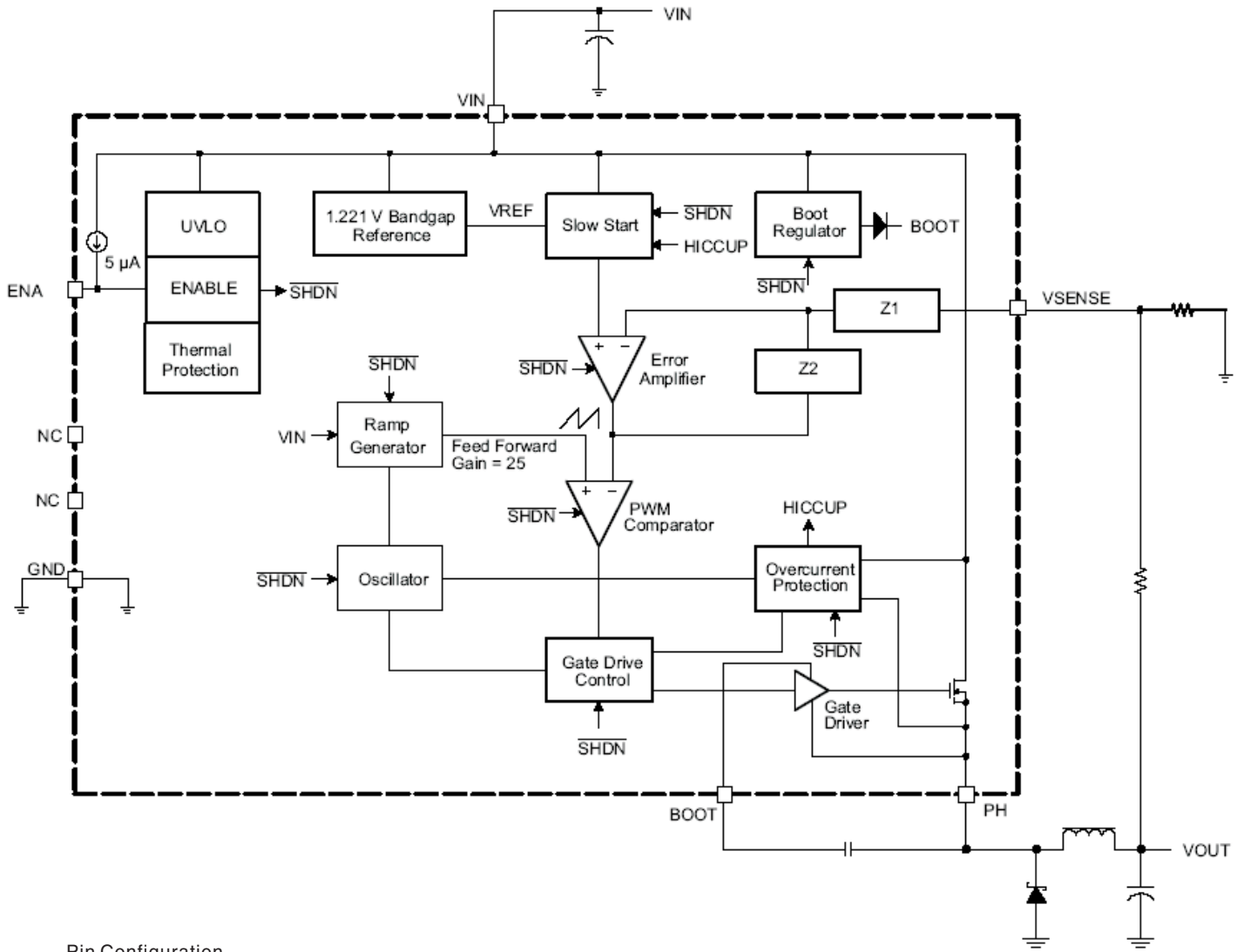


Pin Configuration

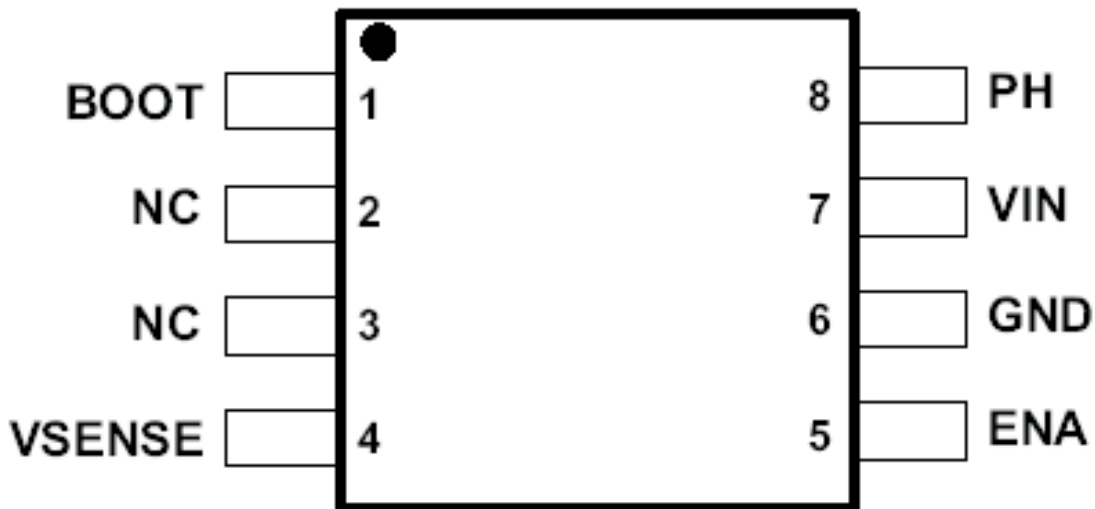


9.3.3 IC Data Sheets-TPS5420(U102)

Function Diagram

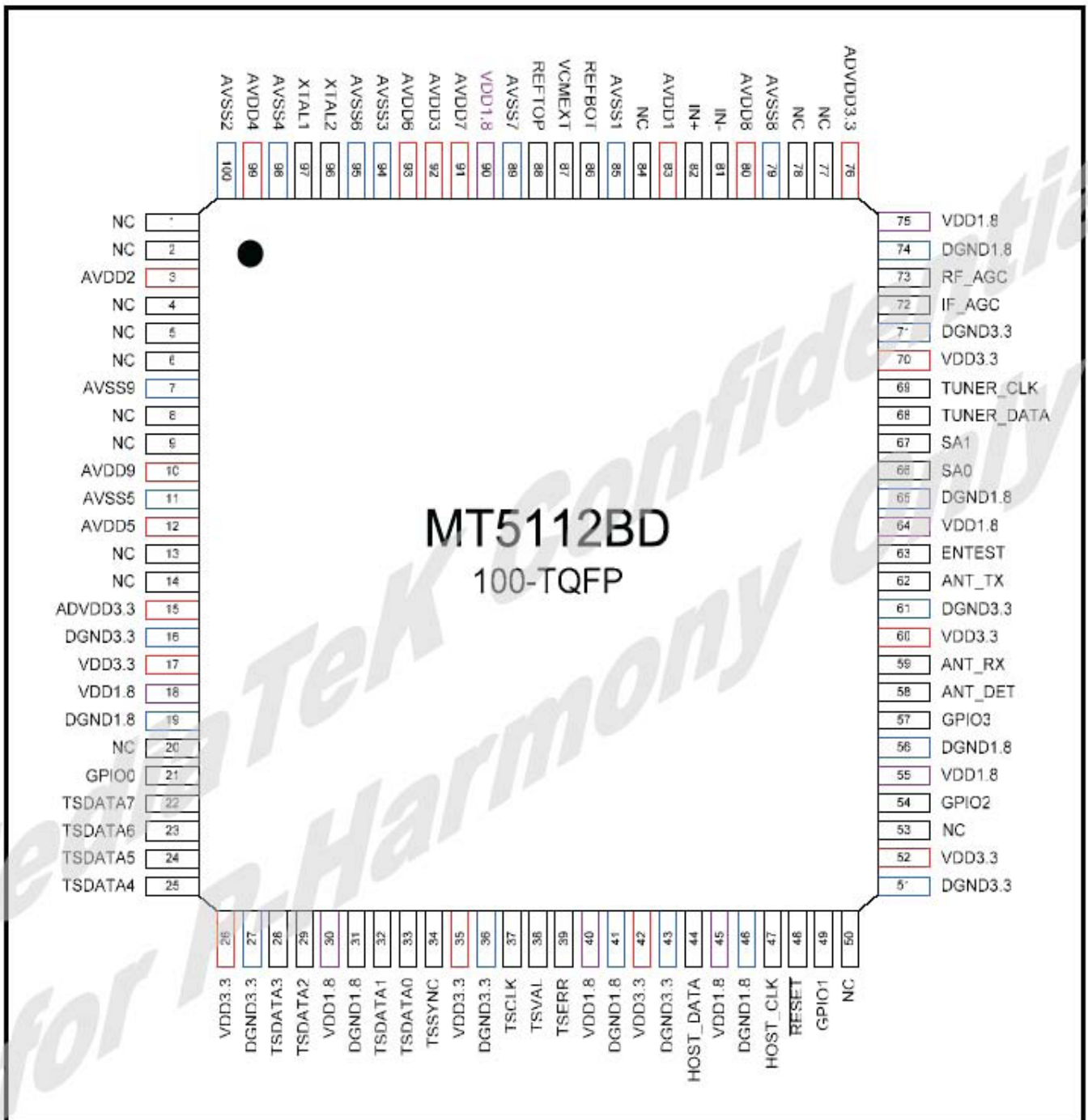


Pin Configuration



9.3.4 IC Data Sheets-MT5112BD(U250)

Pin Configuration













9.3.5 IC Data Sheets-MT5371AJ(U301)

PIN ASSIGNMENT (MT5372, MT5371)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	RA13	RA1	RA5	RA9	RA12	RDQ29	RDQS3_	RDQ25	RDQ21	RDQS2_	RCLK1	RDQ20	GPIO_3	GPIO7	GPIO_11
B	RA8	RA11	RA10	RA3	RA7	RDQ26	RDQS3	RDQ27	RDQ18	RDQS2	RCLK1_	GPIO_0	GPIO_4	GPIO_8	GPIO_12
C	RA4	RA6	RBA1	RRAS_	RCAS_	RDQ24	RDQM3	RDQ28	RDQ16	RDQM2	RDQ17	GPIO_1	GPIO_5	GPIO_9	JTRST_
D	RA0	RA2	RWE_	RBA0	RCS_	RDQ31	RDQ30	RVREF	RDQ23	RDQ22	RDQ19	GPIO_2	GPIO_6	GPIO_10	JTDI
E	RCKE	RODT	RDQ4	RDQ3	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO
F	RDQ1	RDQ6	RDQM0	RVREF	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO	VCC2IO
G	RDQS0	RDQS0_	RDQ7	RDQ0	VCC2IO	VCC2IO									
H	RDQ2	RDQ5	RDQ12	RDQ11	VCC2IO	VCC2IO									
J	RDQ9	RDQ14	RDQS1_	RDQS1	VCC2IO	VCC2IO									
K	RDQM1	RDQ15	RDQ8	RDQ10	VCC2IO	VCC2IO									
L	RCLK0	RCLK0_	RDQ13	REXTUP	VCC2IO	VCC2IO									
M	REXTDN	PDCD1	PDCE1_	PDCE2	VCC2IO	VCC2IO									
N	PDVS1	PDOE_	PDIORD	PDIOWR	VCC3IO	VCC3IO									
P	PDWE_	PDIREQ	PDCTRLVP	PDVS2	VCC3IO	VCC3IO									
R	PDRESET	PDWAIT	PDINPACK	PDREG_	VCC3IO	VCC3IO									
T	PDIOS16	PDCD2_	PDENPOD	POCE2_	VCCCK	VCCCK									
U	POCE1_	POOE_	POCE0_	PDA1	VCCCK	VCCCK									
V	PDD0	PDD1	PDD2	PDD3	VCCCK	VCCCK									
W	PDD4	PDD5	PDD6	PDD7											
Y	PDA0	PDA17	PDA16	PDA15											
AA	PDA14	PDA13	PDA12	PDA11											
AB	PDA10	PDA9	PDA20	PDA21											
AC	POWE_	PDA22	PDA19	PDA18											
AD	PDA8	PDA7	PDA6	PDA5											
AE	PDA4	PDA3	PDA2	IDD8											
AF	IIRDY	IDD9	IDD10	IDD11		VCC3IO	VCC3IO	VCC3IO	VCC3IO						VCCCK
AG	IDD12	IDD13	IDD14	IDD15	MDATA0	SDIOD2	OPWM1	OSDA1	OWRP2	PGND	AVSS_HC	AVSS_H0	AVSS_H1	AVSS_H2	OPCTRL4
AH	IDIOR_	IDIOW_	IDA2	SDIOCMD	DCLK	SDIOD3	OPWM0	OSDA0	OSCL2	PVCC	AVCC_HC	AVCC_H0	AVCC_H1	AVCC_H2	OPCTRL5
AJ	IDA1	IINTRQ	IDA0	SDIOD0	MCLK	OIRO	PWR5V	OSCL0	OSDA2	CVCC12	RXCB	RX0B	RX1B	RX2B	OPCTRL6
AK	IRESET	ICS0_	ICS1_	SDIOCLK	SMCE_	MDATA1	SDIOD1	OPWM2	OSCL1	EXT_RES	RXC	RX0	RX1	RX2	OPCTRL7
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

	11	12	13	14	15
L					
M					
N					
P					
R					
T					
U					
V					
W					
Y					
	11	12	13	14	15

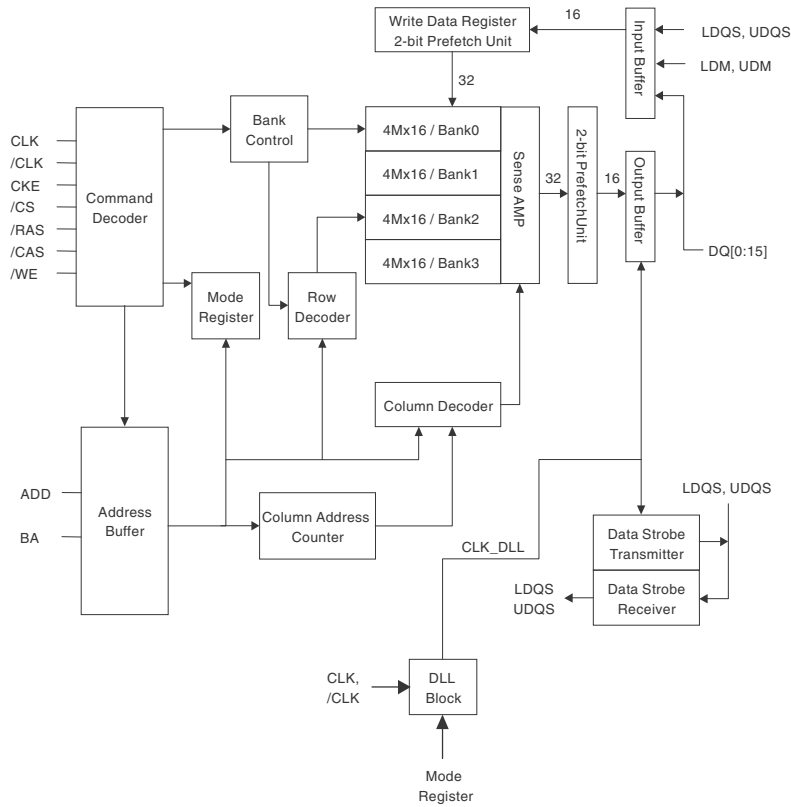
 DDR SIGNAL (120)	 VCCCK CORE POWER 1.2V	 xxxx Analog Power
 NOR Flash / POD (54)	 VCC2IO DDR POWER 2.5V / 1.8V	 xxxx Analog Ground
 ATA/CF/MS/SD/XD/SDIO (29)	 VCC3IO IO POWER 3.3V	
 GPIO	 Digital GND	





9.3.6 IC Data Sheets-HY5DU561622ETP-5(U501)

Function Diagram



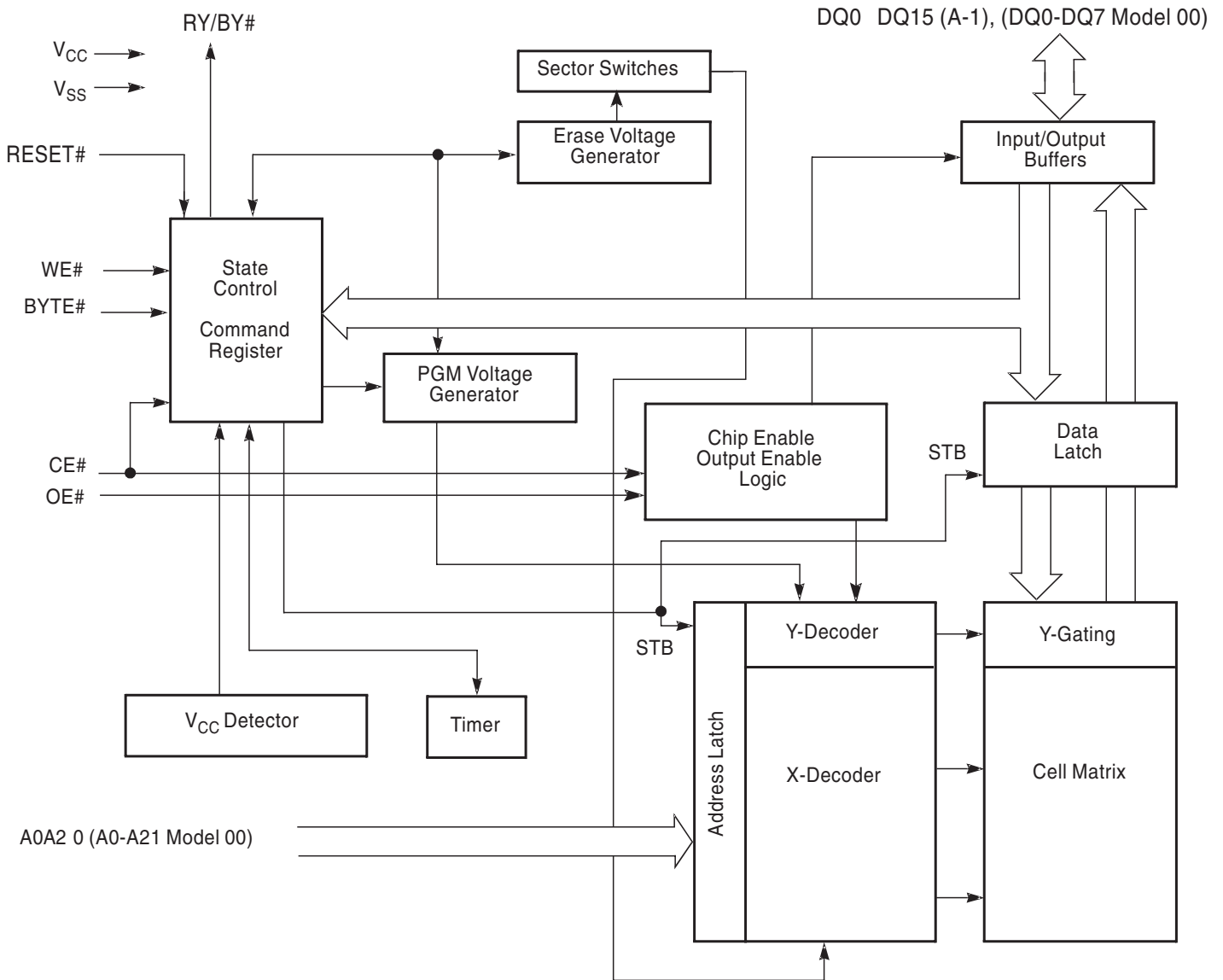
Pin Configuration

x8		x16		x16		x8	
VDD	VDD	1	66	VSS	VSS		
DQ0	DQ0	2	65	DQ15	DQ7		
VDDQ	VDDQ	3	64	VSSQ	VSSQ		
NC	DQ1	4	63	DQ14	NC		
DQ1	DQ2	5	62	DQ13	DQ6		
VSSQ	VSSQ	6	61	VDDQ	VDDQ		
NC	DQ3	7	60	DQ12	NC		
DQ2	DQ4	8	59	DQ11	DQ5		
VDDQ	VDDQ	9	58	VSSQ	VSSQ		
NC	DQ5	10	57	DQ10	NC		
DQ3	DQ6	11	56	DQ9	DQ4		
VSSQ	VSSQ	12	55	VDDQ	VDDQ		
NC	DQ7	13	54	DQ8	NC		
NC	NC	14	53	NC	NC		
VDDQ	VDDQ	15	52	VSSQ	VSSQ		
NC	LDQS	16	51	UDQS	DQS		
NC	NC	17	50	NC	NC		
VDD	VDD	18	49	VREF	VREF		
NC	NC	19	48	VSS	VSS		
NC	LDM	20	47	UDM	DM		
/WE	/WE	21	46	/CK	/CK		
/CAS	/CAS	22	45	CK	CK		
/RAS	/RAS	23	44	CKE	CKE		
/CS	/CS	24	43	NC	NC		
NC	NC	25	42	A12	A12		
BA0	BA0	26	41	A11	A11		
BA1	BA1	27	40	A9	A9		
A10/AP	A10/AP	28	39	A8	A8		
A0	A0	29	38	A7	A7		
A1	A1	30	37	A6	A6		
A2	A2	31	36	A5	A5		
A3	A3	32	35	A4	A4		
VDD	VDD	33	34	VSS	VSS		

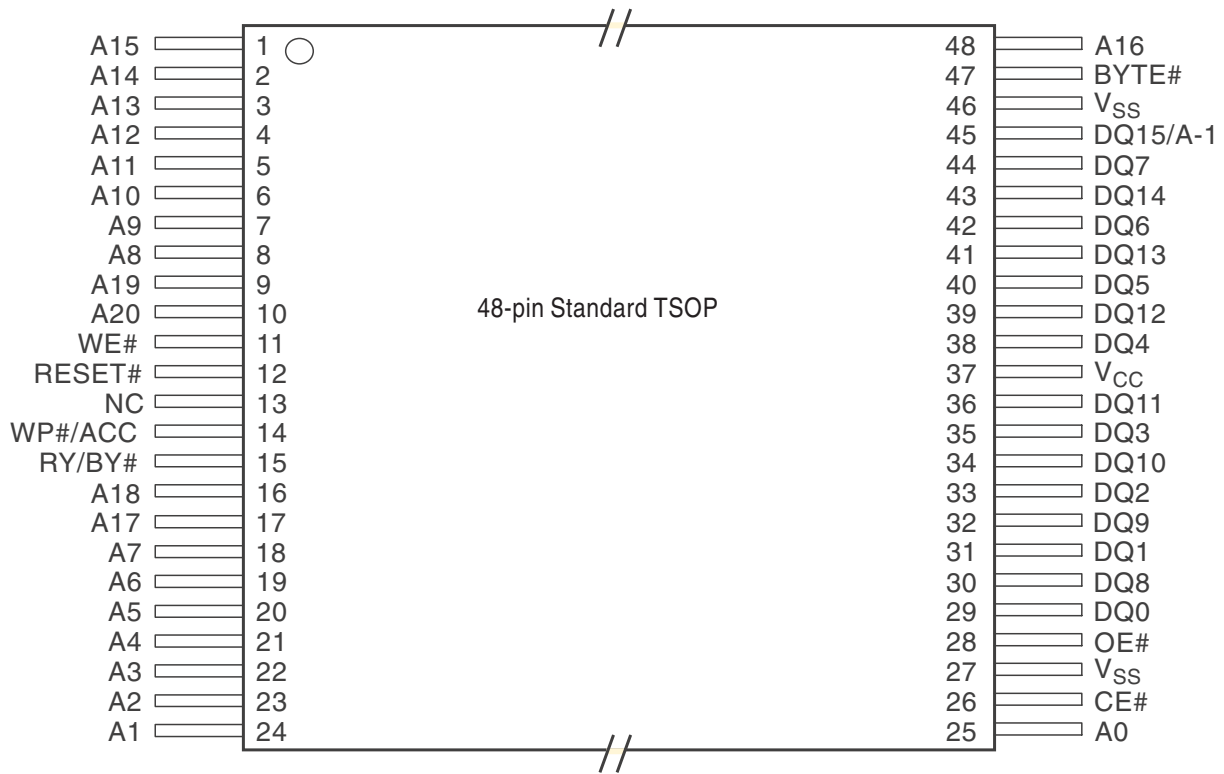
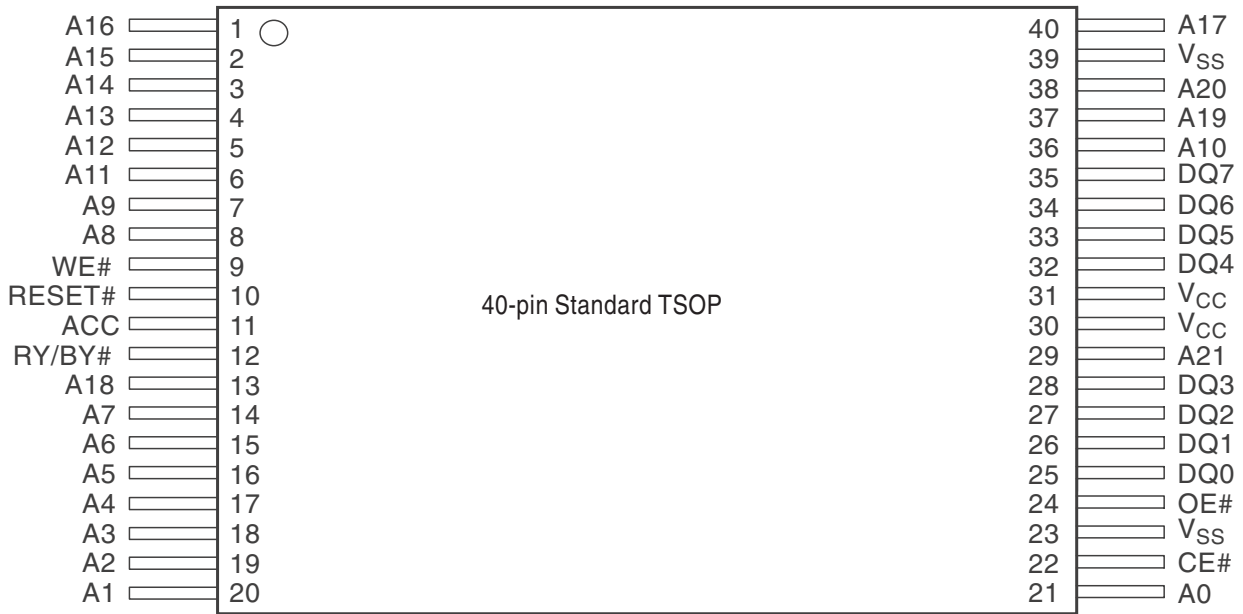
400mil X 875mil  
66pin TSOP -II  
0.65mm pin pitch  
(Lead free)

9.3.7 IC Data Sheets-S29AL032D(U350)

Function Diagram



Pin Configuration



# 10.Recommended/Spare Parts List

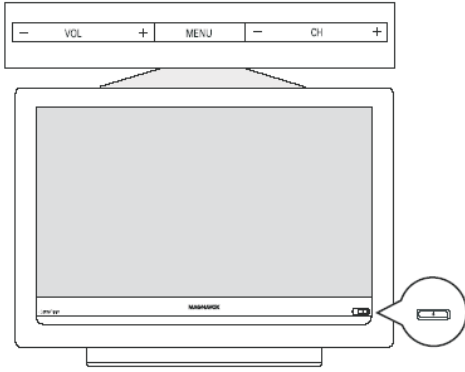
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10.1 Styling Sheet

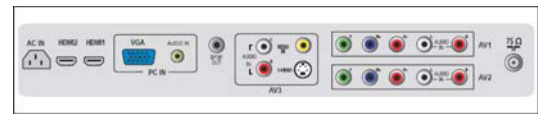
10.2 Recommended Parts List

10.3 Spare Parts List

10.1 Styling Sheet



26MF337B and 32MF337B



# 10. Spare Parts List

## Sets Listed per Model Number (CTN)

### 26MD357B/37 (SBOM 1 & 2)

1050	9965 000 44168	LC260WX2-SLB2
1050	9965 100 05889	V260B1-L01 26"
1053	9965 000 44765	Scaler assy [S]
1053	9965 100 05962	Scaler assy [S]
1054	9965 000 44171	Power board assy [P]
1055	9965 100 05853	Side AV assy [SA]
1056	9965 000 43802	IR & LED assy [I]
1057	9965 000 43803	Keyboard & Cntrl assy [K]
1058	9965 100 02881	DVD key assy [DK]
1059	9965 100 02884	DVD LED assy [DL]
1187	9965 000 44752	DVD 9KDR0850AP1S
8060	9965 000 44753	Cable 4p/290/4p
8150	9965 000 44754	Cable 4p/530/4p
8352	9965 000 44755	Cable 6p/430/6p
8353	9965 000 44756	Cable 4p/440/3p
8354	9965 000 44757	Cable 5p/500/5p
8662	9965 000 44758	Cable 7*2p/270/14p
8801	9965 000 44759	Cable 2p/550/
8802	9965 000 44760	Cable 3p/725/
8850	9965 000 44761	Cable 30p-20*2p 140mm
8850	9965 100 05878	LVDS 30p/140/40p
8900	9965 000 44763	Cable FFC 16p 640mm
8913	9965 000 44764	Cable 11p/90/11p
8915	9965 000 44762	Cable 12p12/14p 200mm
8915	9965 100 05876	Cable 12p/410/14p
SZ002	9965 100 09273	SCREW

1185	9965 000 44169	Loudspeaker 8Ω 5W
1186	9965 000 44169	Loudspeaker 8Ω 5W

### 26MF337B/27 (SBOM 1 & 2)

1050	9965 000 44168	LC260WX2-SLB2
1050	9965 100 05889	V260B1-L01 26"
1053	9965 000 44170	Scaler assy [S]
1053	9965 100 05839	Scaler assy [S]
1054	9965 000 44171	Power board assy [P]
1055	9965 100 05853	Side AV assy [SA]
1056	9965 000 43802	IR & LED assy [I]
8352	9965 000 44755	Cable 6p/430/6p
8353	9965 000 44756	Cable 4p/440/3p
8662	9965 000 44758	Cable 7*2p/270/14p
8801	9965 000 44759	Cable 2p/550/
8802	9965 000 44760	Cable 3p/725/
8850	9965 000 44761	Cable 30p-20*2p 140mm
8850	9965 100 05878	LVDS 30p/140/40p
8913	9965 000 44764	Cable 11p/90/11p
8915	9965 000 44762	Cable 12p12/14p 200mm
8915	9965 100 05876	Cable 12p/410/14p

1185	9965 000 44169	Loudspeaker 8Ω 5W
1185	9965 100 04652	Loudspeaker 8Ω 5W
1186	9965 000 44169	Loudspeaker 8Ω 5W
1186	9965 100 04652	Loudspeaker 8Ω 5W

### 32MD357B/37 (SBOM 1 & 2)

1050	9965 000 43790	LC320W01-SL06
1050	9965 100 05587	V315B1-L06 CMO
1053	9965 100 02816	Scaler assy [S]
1053	9965 100 06904	Scaler assy [S]
1054	9965 000 43800	Power board assy [P]
1054	9965 000 44171	Power board assy [P]
1055	9965 000 43799	Side AV assy [SA]
1056	9965 000 43802	IR & LED assy [I]
1057	9965 000 43803	Keyboard & Cntrl assy [K]
1058	9965 100 02881	DVD key assy [DK]
1059	9965 100 02884	DVD LED assy [DL]
1187	9965 000 44752	DVD 9KDR0850AP1S
1187	9965 100 02814	DVD 9KDR0850AP1S
8060	9965 000 44753	Cable 4p/290/4p
8150	9965 100 06900	Cable 4p/4p 530mm
8353	9965 100 05883	Cable 4p/460/3p
8354	9965 100 06901	Cable 5p/5p 500mm
8850	9965 100 05879	Cable 30p/170mm/40p
8900	9965 100 02815	FFC Cable 16p
8913	9965 100 05870	Cable 11p/85/11p
8915	9965 100 05875	Cable 12p/240/14p

1185	9965 100 02813	Loudspeaker 8Ω 5W
1186	9965 100 02813	Loudspeaker 8Ω 5W

### 32MF337B/27 (SBOM 1 : 4)

1050	9965 100 02577	V315B1-L01
1050	9965 100 05587	V315B1-L06 CMO
1050	9965 100 08189	CLAA320WF01SC
1053	9965 100 05838	Scaler assy [S]
1053	9965 100 08017	Scaler assy [S]
1053	9965 100 08190	Scaler assy [S]
1054	9965 000 44171	Power board assy [P]
1055	9965 000 43799	Side AV assy [SA]
1056	9965 000 43802	IR & LED assy [I]
1057	9965 000 43803	Keyboard & Cntrl assy [K]
8353	9965 100 05883	Cable 4p/460/3p
8353	9965 100 08174	Cable 4p/3p 520mm
8662	9965 100 05887	Cable 7*2p/270/14p
8850	9965 100 05879	Cable 30p/170mm/40p
8850	9965 100 08178	Cable 30p/20*2p 160mm
8913	9965 100 05870	Cable 11p/85/11p
8913	9965 100 08176	Cable 11p/11p 80mm
8915	9965 100 05875	Cable 12p/240/14p
8915	9965 100 08177	Cable 12p/14p 200mm

1185	9965 100 02813	Loudspeaker 8Ω 5W
1186	9965 100 02813	Loudspeaker 8Ω 5W

### 37MF337B/37 (SBOM 1 : 3)

1050	9965 100 03368	LC370WX1-SLB1
1050	9965 100 05888	LT370XW02 V5 AUO
1050	9965 100 08855	LPL LC370WX4-SLB1
1053	9965 000 45006	Scaler assy [S]
1053	9965 100 05842	Scaler assy [S]
1053	9965 100 08857	Scaler assy [S]
1054	9965 100 03225	Power Supply assy [P]
1055	9965 000 45008	Side AV assy [SA]
1056	9965 000 44561	IR & LED assy [I]
1057	9965 000 43803	Keyboard & Cntrl assy [K]
8352	9965 000 45016	Cable 6p/6p 530mm
8353	9965 000 45017	Cable 4p/3p 505mm
8801	9965 000 45018	Cable 4p/3/2p 485mm
8662	9965 100 03388	Cable 7*2p/310/14p
8850	9965 100 03389	Cable LVDS 150mm
8850	9965 100 05877	LVDS 30p/20*2p 150mm
8850	9965 100 08853	Cable 30p/20*2p 200mm
8902	9965 100 03390	Cable 11p/90/11p
SZ002	9965 100 05871	Cable 12p/14p/10p
SZ002	9965 100 08852	Cable 12p/14p 200mm

1187	9965 000 45002	Loudspeaker 6Ω 10W
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### 37PFL5322D/37 (SBOM 1 : 4)

1050	9965 100 03368	LC370WX1-SLB1
1050	9965 100 05888	T370XW02 V5 AUO
1050	9965 100 08855	LPL LC370WX4-SLB1
1050	9965 100 09951	T370XW02 V508 AUO
1053	9965 100 03391	Scaler assy [S]
1053	9965 100 08984	Scaler assy [S]
1053	9965 100 10029	Scaler assy [S]
1053	9965 100 10034	Scaler assy [S]
1054	9965 100 03225	Power Supply assy [P]
1055	9965 000 45008	Side AV assy [SA]
1056	9965 000 44561	IR & LED assy [I]
1057	9965 000 43803	Keyboard & Cntrl assy [K]
8352	9965 000 45016	Cable 6p/6p 530mm
8353	9965 000 45017	Cable 4p/3p 505mm
8662	9965 100 03388	Cable 7*2p/310/14p
8801	9965 000 45018	Cable 4p/3/2p 485mm
8850	9965 100 03389	Cable LVDS 150mm
8850	9965 100 05877	LVDS 30p/20*2p 150mm
8850	9965 100 08981	Cable 30p/20*2p 200mm
8902	9965 100 03390	Cable 11p/90/11p
8903	9965 100 05871	Cable 12p/14p/10p
SZ002	9965 100 08852	Cable 12p/14p 200mm

1187	9965 100 03387	Loudspeaker 6Ω 10W
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### 42MF337B/37 (SBOM 1 : 3)

1050	9965 000 44549	LC420WX5-SLD1
1050	9965 100 06702	T420XW01 V500 TW
1050	9965 100 07853	LC420WX7-SLB1
1053	9965 000 44558	Scaler assy [S]
1053	9965 100 09223	Scaler assy [S]
1053	9965 100 09635	Scaler assy [S]
1054	9965 000 44559	Power Supply assy [P]
1055	9965 000 44560	Side AV assy [SA]
1056	9965 000 44561	IR & LED assy [I]
1057	9965 000 43803	Keyboard & Cntrl assy [K]
8352	9965 000 44550	Cable 6p/580/6p
8353	9965 000 44551	Cable 4p/3p 490mm
8353	9965 100 08751	Cable 4p/3p 490mm
8801	9965 000 44552	Cable 4p/475/3p2
8850	9965 100 08752	Cable 30p/20*2p 230mm
8850	9965 100 09220	Cable 30p/20 2p
8902	9965 000 44557	Cable 11p/11p 150mm
8903	9965 100 09219	Cable 12p/14/12p

1187	9965 100 08750	Loudspeaker 6Ω 10W
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## DVD Key Control Panel [DK]

### Various

SW060	9965 100 02882	Tact Switch
SW060	9965 100 02883	Switch
SW061	9965 100 02882	Tact Switch
SW061	9965 100 02883	Switch

## DVD LED Panel [DL]

### Various

SW080	9965 100 02882	Tact Switch
SW080	9965 100 02883	Switch

LED080	9965 100 02885	VS L-3XGD
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## IR & LED Panel [I]

### Various

SW001	9965 000 35740	Tact Switch TSPB-2-NP
SW001	9965 000 44878	SFKHHPM25C0-PL
SW001	9965 100 02877	Switch
SW001	9965 100 02878	Switch GY
SW002	9965 000 35740	Tact Switch TSPB-2-NP
SW002	9965 000 44878	SFKHHPM25C0-PL

C001	9965 000 42228	100nF 16V X7R 0603
C002	9965 000 42673	10nF 50V Y5V 20% 0603
C003	9965 000 42673	10nF 50V Y5V 20% 0603
C004	9965 000 42673	10nF 50V Y5V 20% 0603
C005	9965 000 42400	1μF 10V Y5V 20% 0603
C006	9965 000 42673	10nF 50V Y5V 20% 0603

R001	9965 000 42218	220Ω 5% 1/10W
R002	9965 000 42219	2.2kΩ 5% 1/10W
R003	9965 000 42214	10kΩ 5% 1/10W
R004	9965 000 42213	100Ω 5% 1/10W
R005	9965 000 42219	2.2kΩ 5% 1/10W
R006	9965 000 42214	10kΩ 5% 1/10W
R007	9965 000 42218	220Ω 5% 1/10W
R008	9965 000 42212	0Ω 5% 1/10W

LED001	9965 100 02879	VS L-3WEGW
Q001	9965 000 43944	BC847BW 100mA/45V
Q001	9965 100 02880	BC847BW 100mA/45V
Q002	9965 000 43944	BC847BW 100mA/45V
Q003	9965 000 43944	BC847BW 100mA/45V
U001	9965 000 42727	TSOP34136SB1

### Keyboard & Control Panel [K]

#### Various

SW030	9965 000 42278	Switch Tact SKQGAB
SW030	9965 000 42279	Switch SFKQGMA2125
SW031	9965 000 42278	Switch Tact SKQGAB
SW031	9965 000 42279	Switch SFKQGMA2125
SW032	9965 000 42278	Switch Tact SKQGAB
SW032	9965 000 42279	Switch SFKQGMA2125
SW033	9965 000 42278	Switch Tact SKQGAB
SW033	9965 000 42279	Switch SFKQGMA2125
SW034	9965 000 42278	Switch Tact SKQGAB
SW034	9965 000 42279	Switch SFKQGMA2125



C031	9965 000 42228	100nF 16V X7R 0603
CN030	9965 000 45270	Connector 3p m



R030	9965 000 44043	11kΩ 5% 1/10W
R031	9965 000 44045	4.3kΩ 5% 1/10W
R032	9965 000 44044	1.8kΩ 5% 1/10W
R033	9965 000 42224	470Ω 5% 1/10W
R034	9965 000 42212	0Ω 5% 1/10W

### Power Supply Unit [P]

#### Various

F901	9965 000 43852	Fuse 250V 4A
F901	9965 100 02521	Fuse 5A 250V
F901	9965 100 05869	Fuse 4A 250V
FB900	9965 100 02511	Ferr. core 35Ω
FB901	9965 100 02511	Ferr. core 35Ω
FB902	9965 100 02511	Ferr. core 35Ω
FB903	9965 000 43357	Ferrite Bead
FB903	9965 000 43424	Bead coil
FB903	9965 000 43839	Ferrite Bead
FB904	9965 000 43357	Ferrite Bead
FB904	9965 000 43424	Bead coil
FB904	9965 000 43839	Ferrite Bead
FB905	9965 000 43424	Bead coil
FB914	9965 000 40066	Ferr. core BF30TA-2
FB914	9965 100 02511	Ferr. core 35Ω
FB915	9965 000 40066	Ferr. core BF30TA-2
FB915	9965 100 02511	Ferr. core 35Ω
FB917	9965 000 40066	Ferr. core BF30TA-2
FB917	9965 100 02511	Ferr. core 35Ω
FB918	9965 000 40066	Ferr. core BF30TA-2
FB918	9965 100 02511	Ferr. core 35Ω
FB919	9965 000 40066	Ferr. core BF30TA-2
FB919	9965 100 02511	Ferr. core 35Ω
FB920	9965 000 40066	Ferr. core BF30TA-2
FB920	9965 100 02511	Ferr. core 35Ω
FB921	9965 000 40066	Ferr. core BF30TA-2
FB921	9965 100 02511	Ferr. core 35Ω
FB922	9965 000 43357	Ferrite Bead
FB922	9965 000 43839	Ferrite Bead
FB923	9965 000 43357	Ferrite Bead
FB923	9965 000 43839	Ferrite Bead
FB924	9965 000 43357	Ferrite Bead
FB924	9965 000 43839	Ferrite Bead
FB925	9965 000 43357	Ferrite Bead
FB925	9965 000 43839	Ferrite Bead
FB960	9965 100 02511	Ferr. core 35Ω
FB961	9965 100 02511	Ferr. core 35Ω
FB962	9965 100 02511	Ferr. core 35Ω
FB963	9965 100 02511	Ferr. core 35Ω
S900	9965 000 43423	GS41-201MA
S901	9965 000 43423	GS41-201MA
S902	9965 000 43423	GS41-201MA
S903	9965 000 43423	GS41-201MA
SG1	9965 000 43423	GS41-201MA

SG2	9965 000 43423	GS41-201MA
SG3	9965 000 43423	GS41-201MA
SG4	9965 000 43423	GS41-201MA
ZD902	9965 000 43426	Trans Suppr 120V 5W
ZD902	9965 000 43434	P6KE120A DO-15
ZD904	9965 000 43426	Trans Suppr 120V 5W
ZD904	9965 000 43434	P6KE120A DO-15
ZD906	9965 000 44652	P4KE250A
ZD908	9965 000 43427	BZX79-B18 A
ZD908	9965 000 43430	BZX55-B18 A
ZD935	9965 000 43893	RLZ15B
ZD935	9965 000 43895	RLZ15B
ZD938	9965 000 43892	RLZ27B LLDS
ZD965	9965 000 43892	RLZ27B LLDS
ZD966	9965 000 39777	RLZ 13B LLDS
ZD966	9965 000 43894	RLZ13B SEMTECH



C900	9965 000 43824	470pF 10% 250VAC
C900	9965 000 43827	470pF 10% 250VAC
C900	9965 000 43828	470pF 10% 250VAC
C900	9965 000 44612	1500pF 250V
C901	9965 000 43824	470pF 10% 250VAC
C901	9965 000 43827	470pF 10% 250VAC
C901	9965 000 43828	470pF 10% 250VAC
C902	9965 000 43824	470pF 10% 250VAC
C902	9965 000 43906	2200pF 500V
C902	9965 000 43907	2200pF 500V
C902	9965 000 43908	2200pF 500V
C905	9965 000 43348	63G214J225GMC
C905	9965 000 43822	2.2μF 5% 450V
C907	9965 000 43354	220μF 450V
C907	9965 000 43829	120μF 450V
C907	9965 000 43832	120μF 450V
C907	9965 100 02508	220μF 450V
C907	9965 100 02509	220μF 450V
C907	9965 100 03542	180μF 450V
C907	9965 100 03543	180μF 450V
C908	9965 000 37794	Film Capacitor
C908	9965 000 43347	0.68μF 275V
C908	9965 000 43821	0.47μF 275VAC
C908	9965 000 43838	MPX-474K27B15L3
C909	9965 000 37794	Film Capacitor
C909	9965 000 43347	0.68μF 275V
C909	9965 000 43821	0.47μF 275VAC
C909	9965 000 43838	MPX-474K27B15L3
C912	9965 000 36073	1μF 25V 0805
C913	9965 000 44615	1nF 10% 50V 0805
C914	9965 000 36045	0.047μF -10% 50V
C916	9965 000 36041	0.1μF 50V X7R
C916	9965 000 36074	0.33μF 10% 25V 0805
C917	9965 000 36041	0.1μF 50V X7R
C917	9965 000 36045	0.047μF -10% 50V
C917	9965 100 03562	47nF 10% 50V 0805
C918	9965 000 39731	2200pF 20% 250Vac
C918	9965 000 43825	2200pF 20% 250VAC
C918	9965 000 43826	2200pF 20% 250VAC
C919	9965 000 36073	1μF 25V 0805
C920	9965 000 36040	0.1μF 10% 25V
C920	9965 000 43889	560pF 50V 0805
C920	9965 000 43890	560pF 50V 0805
C921	9965 000 43460	100UF -20% 25V
C921	9965 000 43886	2.2μF 16V
C922	9965 000 36040	0.1μF 10% 25V
C922	9965 100 04670	10nF 50V 0805
C923	9965 000 36041	0.1μF 50V X7R
C924	9965 000 36074	0.33μF 10% 25V 0805
C924	9965 000 43883	22pF 50V 0805
C925	9965 000 36041	0.1μF 50V X7R
C926	9965 000 43457	1500pF 1kV
C927	9965 000 37327	1μF 50V Y5V
C927	9965 000 42402	1mF 20% 25V 0805
C927	9965 000 43882	1μF Y5V 0805
C930	9965 000 43885	22nF 1% 25V 0805
C931	9965 000 36996	390pF 50V
C934	9965 000 43909	33μF 50V
C934	9965 000 43910	33μF 50V
C934	9965 100 02505	47μF 25V
C935	9965 000 43348	63G214J225GMC
C935	9965 000 43822	2.2μF 5% 450V
C937	9965 000 36040	0.1μF 10% 25V
C938	9965 000 44617	1uF 5% 450V
C938	9965 000 44618	1uF 5% 450V
C939	9965 100 02495	0.01μF 5% 100V
C939	9965 100 02496	0.01μF 5% 100V
C939	9965 100 03380	0.018μF 5% 100V
C939	9965 100 03381	0.018μF 5% 100V
C940	9965 100 02495	0.01μF 5% 100V
C940	9965 100 02496	0.01μF 5% 100V
C940	9965 100 03581	0.01μF 5% 100V
C942	9965 000 36040	0.1μF 10% 25V
C943	9965 000 36040	0.1μF 10% 25V

C944	9965 000 44620	200pF 10% 500V
C944	9965 100 03584	1500pF 10% 500V
C945	9965 000 43458	1.5nF 10% 500V
C945	9965 100 03584	1500pF 10% 500V
C946	9965 100 02510	2.2μF 50V
C947	9965 000 43462	6.8μF 50V
C947	9965 100 03586	10uF 50V
C948	9965 000 44620	200pF 10% 500V
C950	9965 000 44289	22pF 50V 0805
C951	9965 000 43355	1500uF 35V
C951	9965 000 43884	220pF 50V 0805
C951	9965 100 04045	1500uF 35V
C952	9965 000 43355	1500uF 35V
C952	9965 000 43884	220pF 50V 0805
C952	9965 000 44331	1000uF 35V
C952	9965 100 04045	1500uF 35V
C953	9965 000 43355	1500uF 35V
C953	9965 000 43887	0.33μF 50V
C953	9965 000 44331	1000uF 35V
C953	9965 100 04045	1500uF 35V
C953	9965 100 04695	330nF 10% 50V 0805
C954	9965 000 43461	47uF 35V
C954	9965 000 43909	33μF 50V
C954	9965 000 43910	33μF 50V
C954	9965 100 02507	47uF 50V
C955	9965 000 37327	1μF 50V Y5V
C955	9965 000 44623	2200uF 16V
C956	9965 000 44331	1000uF 35V
C956	9965 100 02498	22nF 5% 100V
C956	9965 100 03341	0.022μF 5% 100V
C957	9965 100 02506	10uF +/-20% 25V
C958	9965 100 02505	47uF 25V
C959	9965 000 43411	470pF 5% 50V
C959	9965 000 43906	2200pF 500V
C959	9965 000 43907	2200pF 500V
C959	9965 000 43908	2200pF 500V
C960	9965 000 43411	470pF 5% 50V
C961	9965 000 36074	0.33μF 10% 25V 0805
C961	9965 000 43823	0.022μF 5% 250V
C962	9965 000 43411	470pF 5% 50V
C964	9965 000 44331	1000uF 35V
C965	9965 000 44331	1000uF 35V
C966	9965 000 44331	1000uF 35V
C971	9965 000 36041	0.1μF 50V X7R
C972	9965 000 43463	1000μF 25V
C972	9965 000 43833	1000μF 16V
C972	9965 000 43834	1000μF 16V
C972	9965 000 43836	1000μF 25V
C973	9965 000 36041	0.1μF 50V X7R
C974	9965 000 36041	0.1μF 50V X7R
C975	9965 000 42603	220μF 35V
C975	9965 000 43830	220μF 35V
C977	9965 000 36997	560pF 50V NPO 0805
C987	9965 000 36041	0.1μF 50V X7R
C987	9965 000 44292	0.1uF 50V 0805
C988	9965 000 36041	0.1μF 50V X7R
C988	9965 000 44292	0.1uF 50V 0805
C991	9965 000 36041	0.1μF 50V X7R
C995	9965 000 43884	220pF 50V 0805
C996	9965 000 43888	0.22μF 50V
CN901	9965 100 04668	Socket AC
CN915	9965 000 43344	Connector 12p m



R901	996
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R926	9965 000 38141	10 $\Omega$ 5% 1/6W	R991	9965 000 43876	4.7k $\Omega$ 5% 1/8W	D935	9965 000 40067	RGP10-DO-204AL
R926	9965 000 43902	0.15 $\Omega$ 1% 1W	R992	9965 000 42284	0 $\Omega$ 1/10W	D935	9965 000 43435	BYT42D
R926	9965 000 44638	0.120 $\Omega$ 1% 1W	R994	9965 000 39749	100k $\Omega$ 0805	D935	9965 000 43436	RGP10D
R927	9965 000 43881	820k $\Omega$ 5% 1/4W	R995	9965 000 43873	39k $\Omega$ 1% 1/8W	D950	9965 000 40067	RGP10-DO-204AL
R927	9965 000 44639	180 $\Omega$ 5% 2W	R996	9965 000 43875	4.7k $\Omega$ 1% 1/8W	D950	9965 000 43435	BYT42D
R927	9965 100 03556	1.5k $\Omega$ 5% 1/8W	R998	9965 100 04669	20.5k $\Omega$ 1% 1/8W	D950	9965 000 43436	RGP10D
R928	9965 000 43881	820k $\Omega$ 5% 1/4W	RV902	9965 000 43346	VDR DC 1MA/510 845V	D951	9965 000 40067	RGP10-DO-204AL
R928	9965 000 44642	8.2k $\Omega$ 1% 1/10W	RV902	9965 100 02714	TVR14511KFC4FY	D951	9965 000 43435	BYT42D
R929	9965 000 42735	47k $\Omega$ 5% 1/8W	VAR901	9965 100 02714	TVR14511KFC4FY	D951	9965 000 43436	RGP10D
R929	9965 000 43881	820k $\Omega$ 5% 1/4W				D953	9965 000 43891	MLL4148 SMD
R930	9965 000 36963	1k $\Omega$ 5% 0.1W				D953	9965 100 03321	LL4148-GSO8
R930	9965 000 43868	16k $\Omega$ 5% 1/8W				D953	9965 100 05242	LL4148WP
R931	9965 000 42284	0 $\Omega$ 1/10W				D955	9965 000 36035	LL4148WP
R932	9965 000 43898	7.5k $\Omega$ 5% 1/4W	L901	9965 000 43847	Line Filter 6mH 1.8A	D955	9965 000 39775	LL4148-GS08
R932	9965 000 43901	7.5k $\Omega$ 5% 1/6W	L901	9965 000 43848	Line Filter 6mH 2.0A	D955	9965 000 43891	MLL4148 SMD
R932	9965 100 02482	330 $\Omega$ 5% 1/6W	L903	9965 000 43840	Choke coil 430mH 0.19W	D955	9965 100 03321	LL4148-GSO8
R933	9965 000 36963	1k $\Omega$ 5% 0.1W	L903	9965 000 43843	Choke coil 430 $\mu$ H 0.19 $\Omega$	D955	9965 100 05242	LL4148WP
R934	9965 000 43393	330 $\Omega$ 5% 1/8W	L903	9965 100 04967	Choke coil 430 $\mu$ H 0.19 $\Omega$	D957	9965 000 43426	Trans Suppr 120V 5W
R935	9965 000 43874	47 $\Omega$ 5% 1/8W	L910	9965 000 43849	Line Filter 11mH 3.5A	D957	9965 000 43434	P6KE120A DO-15
R936	9965 000 36965	100k $\Omega$ 5% 0.1W	L910	9965 000 43850	Line Filter 11mH 3.5A	D958	9965 000 43437	UF1007 1A 1000V
R936	9965 000 43381	10k $\Omega$ 1/10W	L910	9965 000 44634	Coil 2.3 $\mu$ H 20% 4.5M $\Omega$	D958	9965 000 43438	STTH110
R937	9965 000 43389	2.2k $\Omega$ 1% 1/8W	L911	9965 000 44635	Coil 2.3 $\mu$ H 20% 7.2M $\Omega$	D959	9965 000 43426	Trans Suppr 120V 5W
R937	9965 000 43393	330 $\Omega$ 5% 1/8W	L912	9965 000 43362	Line Filter 8mH 4.0A	D959	9965 000 43434	P6KE120A DO-15
R938	9965 000 43869	18 $\Omega$ 5% 1/8W	L913	9965 000 43362	Line Filter 8mH 4.0A	D960	9965 000 36034	SP10150
R938	9965 000 43876	4.7k $\Omega$ 5% 1/8W	L914	9965 000 43358	Filter 300 $\mu$ H 0R085	D960	9965 000 43855	MBRF10150CT
R939	9965 000 43381	10k $\Omega$ 1/10W	L914	9965 100 03226	Choke 380 $\mu$ H 130 $\Omega$	D960	9965 000 43856	MBRF10150CT
R939	9965 000 43387	18k $\Omega$ 1% 1/6W	L914	9965 100 03227	Choke 380 $\mu$ H 130 $\Omega$	D961	9965 000 36034	SP10150
R940	9965 000 43896	1k $\Omega$ 5% 1/4W	L915	9965 000 43425	Coil 47 $\mu$ H 10%	D961	9965 000 43855	MBRF10150CT
R940	9965 000 43899	1k $\Omega$ 5% 1/6W	L916	9965 000 43425	Coil 47 $\mu$ H 10%	D961	9965 000 43856	MBRF10150CT
R940	9965 000 44641	1.5k $\Omega$ 1% 1/8W	L966	9965 000 43361	15 $\mu$ H 10%	D970	9965 000 43853	DIODE SB240 DO-41
R941	9965 000 43389	2.2k $\Omega$ 1% 1/8W	L966	9965 000 43845	Choke coil 15 $\mu$ H 260M $\Omega$	D970	9965 000 43904	SB240
R942	9965 000 43379	100 $\Omega$ 5% 1/8W	L966	9965 000 43846	Choke coil 15 $\mu$ H 260M $\Omega$	D970	9965 000 43905	SB240-13-F DO-41
R942	9965 000 43391	33 $\Omega$ 5% 1/8W	L966	9965 100 02517	Choke coil 15 $\mu$ H 260M $\Omega$	D970	9965 100 02828	SB240
R942	9965 000 43869	18 $\Omega$ 5% 1/8W	L970	9965 000 42610	Choke Coil			
R943	9965 000 43389	2.2k $\Omega$ 1% 1/8W	L970	9965 000 43841	Choke 35 $\mu$ H 10% 82M $\Omega$			
R944	9965 000 44642	8.2k $\Omega$ 1% 1/10W	L983	9965 000 43360	10 $\mu$ H 10%			
R945	9965 000 44643	330 $\Omega$ 1% 1/8W	L983	9965 000 43842	Choke coil 10 $\mu$ H 17M $\Omega$			
R946	9965 000 43876	4.7k $\Omega$ 5% 1/8W	L983	9965 000 43844	Choke coil 10 $\mu$ H 14.6M $\Omega$			
R947	9965 000 39756	47k $\Omega$ 5% 1/8W	L983	9965 100 02516	Choke coil 10 $\mu$ H 14.6M $\Omega$	IC902	9965 000 44633	SG6961
R947	9965 000 42735	47k $\Omega$ 5% 1/8W	T901	9965 000 43851	XFMR PPH6004AL	IC904	9965 000 36353	TEA1507P
R948	9965 000 36970	1.5k $\Omega$ 5% 0.1W	T901	9965 100 02519	HFC-S6197	IC904	9965 100 03539	TEA1507P/N1
R949	9965 000 43420	0.1 $\Omega$ 1% 1W	T904	9965 100 02520	XFMR HJC-S6191	IC907	9965 000 36353	TEA1507P
R949	9965 000 43902	0.15 $\Omega$ 1% 1W	T905	9965 000 44651	Power transformer	IC907	9965 100 03539	TEA1507P/N1
R950	9965 000 43399	560k $\Omega$ 5%/8W	T905	9965 100 03228	XFMR HJC-S6192	IC909	9965 000 40055	PC123 Y82FZOF
R950	9965 000 43903	0.33 $\Omega$ 5% 1W	TH902	9965 000 43454	NTC 0.75 $\Omega$ 15%	IC909	9965 000 40056	TCET1103G
R951	9965 000 36963	1k $\Omega$ 5% 0.1W				IC910	9965 000 40055	PC123 Y82FZOF
R952	9965 000 43379	100 $\Omega$ 5% 1/8W				IC910	9965 000 40056	TCET1103G
R952	9965 000 43896	1k $\Omega$ 5% 1/4W				IC911	9965 000 40055	PC123 Y82FZOF
R952	9965 000 43899	1k $\Omega$ 5% 1/6W				IC911	9965 000 40056	TCET1103G
R953	9965 000 43396	330k $\Omega$ 5% 1/8W	D901	9965 000 43371	STTH8L06FP	IC912	9965 000 43441	TL431ACZ
R953	9965 000 43867	150 $\Omega$ 5% 1/8W	D901	9965 000 43857	STTH5L06FP	IC913	9965 000 43441	TL431ACZ
R953	9965 000 44295	150 $\Omega$ 5% 1/8W	D906	9965 100 03321	LL4148-GSO8	IC920	9965 000 43861	UCC28051D
R954	9965 000 36987	10 $\Omega$ 5% 1/4W	D906	9965 100 03327	BAS32L	IC950	9965 000 43860	FA5541N
R954	9965 000 38141	10 $\Omega$ 5% 1/6W	D907	9965 000 40067	RGP10-DO-204AL	IC970	9965 000 43859	LA5779L-HK
R955	9965 000 43390	22k $\Omega$ 5% 1/8W	D907	9965 000 43435	BYT42D	IC990	9965 000 36055	PC123Y22FZOF
R956	9965 000 44644	150k $\Omega$ 1% 1/8W	D907	9965 000 43436	RGP10D	IC990	9965 000 40055	PC123 Y82FZOF
R957	9965 000 39749	100k $\Omega$ 0805	D908	9965 000 40067	RGP10-DO-204AL	IC990	9965 000 40056	TCET1103G
R957	9965 000 43897	130k $\Omega$ 5% 1/4W	D908	9965 000 43435	BYT42D	IC991	9965 000 36055	PC123Y22FZOF
R957	9965 000 43900	130k $\Omega$ 5% 1/6W	D908	9965 000 43436	RGP10D	IC991	9965 000 40055	PC123 Y82FZOF
R958	9965 000 43396	330k $\Omega$ 5% 1/8W	D910	9965 100 03321	LL4148-GSO8	IC991	9965 000 40056	TCET1103G
R958	9965 000 45262	300k $\Omega$ 5% 1/8W	D910	9965 100 03327	BAS32L	IC995	9965 000 36101	AZ431AZ-AE1
R959	9965 100 02488	220k $\Omega$ 5% 0.25W	D911	9965 000 40067	RGP10-DO-204AL	IC995	9965 000 43819	TL431CZ-AP
R960	9965 100 02488	220k $\Omega$ 5% 0.25W	D911	9965 000 43435	BYT42D	IC995	9965 100 02780	AZ431AZ-AE1
R961	9965 100 02487	180k $\Omega$ 5% 0.25W	D911	9965 000 43436	RGP10D	Q901	9965 000 43368	STW18NK80Z
R962	9965 000 42735	47k $\Omega$ 5% 1/8W	D912	9965 000 40067	RGP10-DO-204AL	Q901	9965 000 43862	Mosfet_20A/600V
R963	9965 000 43418	2.2 $\Omega$ 5% 1/6W	D912	9965 000 43435	BYT42D	Q901	9965 000 43863	Mosfet_20A/600V
R964	9965 000 43418	2.2 $\Omega$ 5% 1/6W	D912	9965 000 43436	RGP10D	Q901	9965 000 43864	Mosfet STP10NK80ZFP
R965	9965 000 43379	100 $\Omega$ 5% 1/8W	D914	9965 100 02829	BAV103	Q901	9965 000 43865	STP25NM60N 20A/600V
R965	9965 000 44647	2.2 $\Omega$ 5% 1/4W	D914	9965 100 02830	BAV103	Q902	9965 000 43369	Transistor 26A 600V
R966	9965 000 43379	100 $\Omega$ 5% 1/8W	D915	9965 100 02829	BAV103	Q902	9965 000 43864	Mosfet STP10NK80ZFP
R967	9965 000 43380	1k $\Omega$ 1/10W	D915	9965 100 02830	BAV103	Q902	9965 000 44610	2SK3681-01
R968	9965 000 39749	100k $\Omega$ 0805	D918	9965 100 02529	BAV21	Q902	9965 100 03548	FCA20N60
R969	9965 000 44648	470k $\Omega$ 1% 0.25W	D919	9965 100 02829	BAV103	Q902	9965 100 03550	STW25NM60N
R970	9965 000 43896	1k $\Omega$ 5% 1/4W	D919	9965 100 02830	BAV103	Q908	9965 000 44636	STP7NK80ZFP ST
R970	9965 000 43899	1k $\Omega$ 5% 1/6W	D920	9965 100 02529	BAV21	Q908	9965 100 02480	2SK3530-01MRSC
R970	9965 000 44648	470k $\Omega$ 1% 0.25W	D922	9965 000 43373	STPS40H100CW	Q912	9965 000 37785	BC857CG
R971	9965 000 43870	19.6k $\Omega$ 1% 1/8W	D922	9965 100 03554	SP20100R	Q912	9965 000 40046	BC857 SOT23
R971	9965 000 44648	470k $\Omega$ 1% 0.25W	D922	9965 100 03555	STPS20H100CFP	Q913	9965 000 37785	BC857CG
R972	9965 000 43389	2.2k $\Omega$ 1% 1/8W	D924	9965 000 43437	UF1007 1A 1000V	Q913	9965 000 40046	BC857 SOT23
R972	9965 000 44296	2.2k $\Omega$ 1% 1/8W	D924	9965 000 43438	STTH110	Q914	9965 000 37785	BC857CG
R972	9965 000 44642	8.2k $\Omega$ 1% 1/10W	D925	9965 000 43437	UF1007 1A 1000V	Q914	9965 000 40046	BC857 SOT23
R973	9965 000 43400	620 $\Omega$ 1% 1/8W	D925	9965 000 43438	STTH110	Q915	9965 000 42648	BC847C
R974	9965 000 43381	10k $\Omega$ 1/10W	D926	9965 000 43439	DIODE	Q915	9965 000 42649	BC847C
R974	9965 000 44297	10k $\Omega$ 5% 1/8W	D926	9965 000 43440	SBYV27-200-E3	Q915	9965 100 02479	BC847C
R974	9965 100 02481	0.3 $\Omega$ 1% 0.25W	D926	9965 000 43891	MLL4148 SMD	Q916	9965 000 42648	BC847C
R975	9965 000 43876	4.7k $\Omega$ 5% 1/8W	D926	9965 100 03321	LL4148-GSO8	Q916	9965 000 42649	BC847C
R976	9965 000 43874	47 $\Omega$ 5% 1/8W	D926	9965 100 05242	LL4148WP	Q916	9965 100 02479	BC847C
R977	9965 000 43976	10 $\Omega$ 5% 1/4W	D927	9965 000 44611	SP1060	Q936	9965 000 35967	KEC 2N3906S-RTK/PS
R978	9965 000 43396	330k $\Omega$ 5% 1/8W	D927	9965 100 02528	MBRF1060CT	Q936	9965 100 02478	PMBS3906
R979	9965 000 36963	1k $\Omega$ 5% 0.1W	D929	9965 100 02829	BAV103	Q988	9965 000 36033	RK7002
R979	9965 000 43875	4.7k $\Omega$ 1% 1/8W	D929	9965 100 02830	BAV103	Q9		



Q993	9965 000 35966	PMBS3904	FB256	9965 000 43997	Bead 600Ω/500mA	C102	9965 000 43979	1nF 5% 50V 0603
Q993	9965 000 36961	KEC 2N3904S-RTK/PS	FB257	9965 000 43995	Bead 600Ω/200mA	C103	9965 000 43979	1nF 5% 50V 0603
Q993	9965 000 40045	MMBT3904	FB257	9965 000 43997	Bead 600Ω/500mA	C104	9965 000 42259	100pF 50V 0603
BD901	9965 000 43370	GBU8J	FB350	9965 000 43995	Bead 600Ω/200mA	C105	9965 000 43980	100nF 20% 25V 0603
BD901	9965 000 43854	DIODE GBU605	FB350	9965 000 43997	Bead 600Ω/500mA	C106	9965 000 42259	100pF 50V 0603
BD901	9965 000 43858	Bridge 6A/600V	FB351	9965 000 43995	Bead 600Ω/200mA	C107	9965 000 43488	100nF 25V 0603
BD901	9965 000 44288	GBU606	FB351	9965 000 43997	Bead 600Ω/500mA	C108	9965 000 35998	220uF 16V
BD901	9965 000 44609	GBU805	FB352	9965 000 43995	Bead 600Ω/200mA	C108	9965 000 43916	470µF 20% 25V
BD901	9965 100 03552	GBU605	FB352	9965 000 43997	Bead 600Ω/500mA	C109	9965 000 43488	100nF 25V 0603
BD901	9965 100 04061	GBU806	FB401	9965 000 43995	Bead 600Ω/200mA	C110	9965 000 42402	1mF 5% 50V 0805
NR901	9965 000 43820	NTC SCK101R5LSY	FB401	9965 000 43997	Bead 600Ω/500mA	C111	9965 000 43488	100nF 25V 0603
			FB402	9965 000 43995	Bead 600Ω/200mA	C112	9965 000 43985	1µF 20% 16V
			FB402	9965 000 43997	Bead 600Ω/500mA	C113	9965 100 03699	220uF 25V
			FB403	9965 000 43995	Bead 600Ω/200mA	C113	9965 100 05107	2200uF 25V
			FB403	9965 000 43997	Bead 600Ω/500mA	C114	9965 000 43981	3.9nF 1% 50V 0603
			FB404	9965 000 43995	Bead 600Ω/200mA	C116	9965 000 43488	100nF 25V 0603
			FB404	9965 000 43997	Bead 600Ω/500mA	C117	9965 000 43980	100nF 20% 25V 0603
			FB405	9965 000 43995	Bead 600Ω/200mA	C118	9965 000 43979	1nF 5% 50V 0603
			FB405	9965 000 43997	Bead 600Ω/500mA	C119	9965 000 43979	1nF 5% 50V 0603
			FB406	9965 000 43995	Bead 600Ω/200mA	C120	9965 000 42260	10nF 50V X7R 0603
			FB406	9965 000 43997	Bead 600Ω/500mA	C121	9965 000 43488	100nF 25V 0603
			FB407	9965 000 43995	Bead 600Ω/200mA	C122	9965 000 43488	100nF 25V 0603
			FB407	9965 000 43997	Bead 600Ω/500mA	C123	9965 000 43979	1nF 5% 50V 0603
			FB408	9965 000 43995	Bead 600Ω/200mA	C124	9965 000 37776	100µF 25V
			FB408	9965 000 43997	Bead 600Ω/500mA	C124	9965 000 43645	100µF 25V
			FB409	9965 000 43995	Bead 600Ω/200mA	C124	9965 100 08191	100uF 16V
			FB409	9965 000 43997	Bead 600Ω/500mA	C124	9965 100 08192	100uF 16V
			FB410	9965 000 43995	Bead 600Ω/200mA	C125	9965 000 35998	220uF 16V
			FB410	9965 000 43997	Bead 600Ω/500mA	C125	9965 000 43916	470µF 20% 25V
			FB411	9965 000 43995	Bead 600Ω/200mA	C126	9965 000 43981	3.9nF 1% 50V 0603
			FB411	9965 000 43997	Bead 600Ω/500mA	C127	9965 000 43916	470µF 20% 25V
			FB660	9965 000 43995	Bead 600Ω/200mA	C127	9965 000 44823	470uF 16V
			FB660	9965 000 43997	Bead 600Ω/500mA	C128	9965 000 43981	3.9nF 1% 50V 0603
			FB661	9965 000 43995	Bead 600Ω/200mA	C129	9965 000 42262	100nF 50V Y5V 0603
			FB661	9965 000 43997	Bead 600Ω/500mA	C130	9965 000 42235	47µF 25V 6.3X5.3mm
			FB662	9965 000 43995	Bead 600Ω/200mA	C130	9965 100 03679	47uF 16V
			FB662	9965 000 43997	Bead 600Ω/500mA	C130	9965 100 03680	47uF 16V
			FB663	9965 000 43995	Bead 600Ω/200mA	C130	9965 100 03697	47uF 25V
			FB663	9965 000 43997	Bead 600Ω/500mA	C130	9965 100 05108	47uF 25V
			FB700	9965 000 43995	Bead 600Ω/200mA	C130	9965 100 08199	47uF 16V
			FB700	9965 000 43997	Bead 600Ω/500mA	C131	9965 000 43913	470µF 35V
			FB701	9965 000 43995	Bead 600Ω/200mA	C131	9965 000 43914	470µF 35V
			FB701	9965 000 43997	Bead 600Ω/500mA	C132	9965 000 43980	100nF 20% 25V 0603
			FB703	9965 000 42268	220Ω at 100MHz 0805	C133	9965 000 43980	100nF 20% 25V 0603
			FB725	9965 000 43995	Bead 600Ω/200mA	C133	9965 100 06906	4.7F 20% 10V
			FB725	9965 000 43997	Bead 600Ω/500mA	C134	9965 000 42231	330pF 50V NPO 0603
			FB726	9965 000 43995	Bead 600Ω/200mA	C150	9965 000 42235	47µF 25V 6.3X5.3mm
			FB726	9965 000 43997	Bead 600Ω/500mA	C150	9965 100 03679	47uF 16V
			FB760	9965 000 43995	Bead 600Ω/200mA	C150	9965 100 03680	47uF 16V
			FB760	9965 000 43997	Bead 600Ω/500mA	C150	9965 100 03697	47uF 25V
			FB761	9965 000 43995	Bead 600Ω/200mA	C150	9965 100 05108	47uF 25V
			FB761	9965 000 43997	Bead 600Ω/500mA	C150	9965 100 08199	47uF 16V
			FB801	9965 000 43918	75Ω W6 RH 3.5X10X	C151	9965 000 43980	100nF 20% 25V 0603
			FB801	9965 000 43919	80Ω BF30TA 3.5X9X	C152	9965 000 35998	220uF 16V
			FB851	9965 000 42268	220Ω at 100MHz 0805	C152	9965 000 43917	1000µF 25V
			FB852	9965 000 42268	220Ω at 100MHz 0805	C153	9965 000 43913	470µF 35V
			FB853	9965 000 42268	220Ω at 100MHz 0805	C154	9965 100 03677	470uF 25V
			FB900	9965 000 43995	Bead 600Ω/200mA	C155	9965 000 42235	47µF 25V 6.3X5.3mm
			FB900	9965 000 43997	Bead 600Ω/500mA	C155	9965 100 03679	47uF 16V
			TU201	9965 000 44034	Tuner FQD1236/F	C155	9965 100 03680	47uF 16V
			TU202	9965 100 02821	TDQU4-507A	C155	9965 100 03697	47uF 25V
			X250	9965 000 44013	Xtal 25MHz 20p HC49/S	C155	9965 100 05108	47uF 25V
			X250	9965 000 44014	Xtal 25MHz 20p HC49/S	C155	9965 100 08199	47uF 16V
			X250	9965 100 02868	Crystal 25Mhz 20pF	C156	9965 000 43980	100nF 20% 25V 0603
			X250	9965 100 02869	Crystal 25Mhz 20pF	C157	9965 000 42698	10µF 16V 20% 1206
			X250	9965 100 03276	Xtal 25MHz 20p HC49/S	C158	9965 000 43980	100nF 20% 25V 0603
			X250	9965 100 03534	Xtal 25MHz 20p HC49/S	C159	9965 000 42235	47µF 25V 6.3X5.3mm
			X350	9965 000 44012	Xtal 27MHz 15p	C159	9965 100 03679	47uF 16V
			X350	9965 000 44601	Xls/Osc. 27Mhz	C159	9965 100 03680	47uF 16V
			X350	9965 000 44602	Crystal 27Mhz	C159	9965 100 03697	47uF 25V
			X350	9965 100 02870	Xtal 27Mhz 15pF	C159	9965 100 05108	47uF 25V
			X350	9965 100 02871	Xtal 27Mhz 15pF	C159	9965 100 08199	47uF 16V
			X350	9965 100 03224	Crystal 27Mhz	C160	9965 000 43980	100nF 20% 25V 0603
			X350	9965 100 03536	Crystal 27Mhz	C161	9965 000 43994	10µF 16V
			X350	9965 100 05116	Crystal / Osc 27MHz	C162	9965 000 42235	47µF 25V 6.3X5.3mm
			X350	9965 100 05117	Crystal / Osc 27MHz	C162	9965 100 03679	47uF 16V
			ZD100	9965 000 37806	SMD	C162	9965 100 03680	47uF 16V
			ZD150	9965 000 37806	SMD	C162	9965 100 03697	47uF 25V
			ZD151	9965 000 44008	BZX284-C12	C162	9965 100 05108	47uF 25V
			ZD151	9965 100 02872	BZX284-C12	C162	9965 100 08199	47uF 16V
			ZD151	9965 100 03537	BZX284-C12	C163	9965 000 43994	10µF 16V
			ZD151	9965 100 05862	BZX284-C5V1SOD-110	C164	9965 000 43980	100nF 20% 25V 0603
			ZD152	9965 000 37806	SMD	C165	9965 000 42235	47µF 25V 6.3X5.3mm
			ZD701	9965 000 44006	PDZ24B SOD-323	C165	9965 100 03679	47uF 16V
			ZD701	9965 100 02873	PDZ24B	C165	9965 100 03680	47uF 16V
			ZD701	9965 100 03538	PDZ24B SOD-323	C165	9965 100 03697	47uF 25V
			ZD706	9965 000 44006	PDZ24B SOD-323	C165	9965 100 05108	47uF 25V
			ZD706	9965 100 03538	PDZ24B SOD-323	C165	9965 100 08199	47uF 16V
			— —			C166	9965 000 43980	100nF 20% 25V 0603
						C167	9965 000 42235	47µF 25V 6.3X5.3mm
						C167	9965 100 03697	47uF 25V
						C167	9965 100 05108	47uF 25V
						C168	9965 000 43980	100nF 20% 25V 0603
						C169	9965 000 42231	330pF 50V NPO 0603

C170	9965 000 42262	100nF 50V Y5V 0603	C351	9965 100 09686	10F 16V 1206	C446	9965 000 42228	100nF 16V X7R 0603
C171	9965 000 42260	10nF 50V X7R 0603	C353	9965 000 42228	100nF 16V X7R 0603	C447	9965 000 42228	100nF 16V X7R 0603
C172	9965 000 43991	47F 35V	C354	9965 000 42228	100nF 16V X7R 0603	C448	9965 000 42228	100nF 16V X7R 0603
C173	9965 000 35998	220uF 16V	C355	9965 000 42260	10nF 50V X7R 0603	C449	9965 000 42228	100nF 16V X7R 0603
C173	9965 000 37774	470uF 16V	C356	9965 000 43977	1nF 5% 25V 0603	C450	9965 000 44016	10uF 10% 16V
C174	9965 000 42231	330pF 50V NPO 0603	C357	9965 000 42690	47pF 50V NPO 5% 0603	C450	9965 000 44017	10uF 20% 16V
C175	9965 000 42262	100nF 50V Y5V 0603	C358	9965 000 42229	22pF 50V NPO 0603	C450	9965 000 44018	10uF 10% 16V
C176	9965 000 42260	10nF 50V X7R 0603	C359	9965 000 42403	10uF 25V 20% 1210	C450	9965 000 44019	CER 10U 10V X7R 10%
C201	9965 000 42228	100nF 16V X7R 0603	C359	9965 100 08198	10uF 10V 0805	C450	9965 000 44020	10uF 10% 10V
C202	9965 000 37776	100uF 25V	C359	9965 100 09685	10F 10V	C450	9965 000 45057	10uF 10% 16V
C202	9965 000 43645	100uF 25V	C360	9965 000 42403	10uF 25V 20% 1210	C451	9965 000 42228	100nF 16V X7R 0603
C202	9965 100 08191	100uF 16V	C360	9965 100 08198	10uF 10V 0805	C452	9965 000 42228	100nF 16V X7R 0603
C202	9965 100 08192	100uF 16V	C360	9965 100 09685	10F 10V	C453	9965 000 42228	100nF 16V X7R 0603
C203	9965 000 37776	100uF 25V	C361	9965 000 42228	100nF 16V X7R 0603	C454	9965 000 42228	100nF 16V X7R 0603
C203	9965 000 43645	100uF 25V	C362	9965 000 43978	10pF 5% 50V 0603	C455	9965 000 42228	100nF 16V X7R 0603
C204	9965 000 42260	10nF 50V X7R 0603	C363	9965 000 42260	10nF 50V X7R 0603	C456	9965 000 42228	100nF 16V X7R 0603
C205	9965 000 42403	10uF 25V 20% 1210	C364	9965 000 42260	10nF 50V X7R 0603	C457	9965 000 42228	100nF 16V X7R 0603
C205	9965 100 08198	10uF 10V 0805	C365	9965 000 42260	10nF 50V X7R 0603	C458	9965 000 42228	100nF 16V X7R 0603
C205	9965 100 09685	10F 10V	C366	9965 000 42260	10nF 50V X7R 0603	C459	9965 000 42228	100nF 16V X7R 0603
C206	9965 000 42228	100nF 16V X7R 0603	C367	9965 000 42260	10nF 50V X7R 0603	C460	9965 000 42228	100nF 16V X7R 0603
C207	9965 000 42232	47nF 16V X7R 0603	C368	9965 000 42260	10nF 50V X7R 0603	C461	9965 000 44016	10uF 10% 16V
C208	9965 000 42678	15pF -5% 50V 0603	C371	9965 000 42260	10nF 50V X7R 0603	C461	9965 000 44017	10uF 20% 16V
C209	9965 000 42678	15pF -5% 50V 0603	C372	9965 000 42260	10nF 50V X7R 0603	C461	9965 000 44018	10uF 10% 16V
C210	9965 000 42690	47pF 50V NPO 5% 0603	C401	9965 000 42228	100nF 16V X7R 0603	C461	9965 000 44019	CER 10U 10V X7R 10%
C211	9965 000 42235	47uF 25V 6.3X5.3mm	C402	9965 000 42228	100nF 16V X7R 0603	C461	9965 000 44020	10uF 10% 10V
C211	9965 100 03679	47uF 16V	C403	9965 000 42228	100nF 16V X7R 0603	C461	9965 000 45057	10uF 10% 16V
C211	9965 100 03680	47uF 16V	C404	9965 000 42228	100nF 16V X7R 0603	C462	9965 000 42228	100nF 16V X7R 0603
C211	9965 100 03697	47uF 25V	C405	9965 000 43988	4.7uF 10% 10V	C463	9965 000 42228	100nF 16V X7R 0603
C211	9965 100 05108	47uF 25V	C405	9965 100 03698	4.7uF +/-10% 10V	C464	9965 000 42228	100nF 16V X7R 0603
C211	9965 100 08199	47uF 16V	C406	9965 000 42228	100nF 16V X7R 0603	C465	9965 000 42228	100nF 16V X7R 0603
C212	9965 000 43984	5.6pF 50V 0603	C407	9965 000 43988	4.7uF 10% 10V	C466	9965 000 42228	100nF 16V X7R 0603
C213	9965 000 42678	15pF -5% 50V 0603	C407	9965 100 03698	4.7uF +/-10% 10V	C467	9965 000 42228	100nF 16V X7R 0603
C214	9965 000 42235	47uF 25V 6.3X5.3mm	C408	9965 000 42228	100nF 16V X7R 0603	C468	9965 000 43988	4.7uF 10% 10V
C214	9965 100 03679	47uF 16V	C409	9965 000 42228	100nF 16V X7R 0603	C468	9965 100 03698	4.7uF +/-10% 10V
C214	9965 100 03680	47uF 16V	C410	9965 000 42228	100nF 16V X7R 0603	C469	9965 000 42228	100nF 16V X7R 0603
C214	9965 100 03697	47uF 25V	C411	9965 000 42228	100nF 16V X7R 0603	C470	9965 000 42228	100nF 16V X7R 0603
C214	9965 100 05108	47uF 25V	C412	9965 000 42228	100nF 16V X7R 0603	C472	9965 000 42228	100nF 16V X7R 0603
C214	9965 100 08199	47uF 16V	C413	9965 000 43916	470uF 20% 25V	C473	9965 000 42228	100nF 16V X7R 0603
C215	9965 000 42228	100nF 16V X7R 0603	C413	9965 100 08191	100uF 16V	C474	9965 000 44022	10uF 10% 16V
C216	9965 000 42260	10nF 50V X7R 0603	C413	9965 100 08192	100uF 16V	C474	9965 000 44023	10uF 10% 10V
C218	9965 000 42228	100nF 16V X7R 0603	C414	9965 000 43988	4.7uF 10% 10V	C474	9965 000 44024	10uF 10% 10V
C250	9965 000 42228	100nF 16V X7R 0603	C414	9965 100 03698	4.7uF +/-10% 10V	C474	9965 100 05856	10uF 16V 10% 1206
C251	9965 000 42232	47nF 16V X7R 0603	C415	9965 000 42228	100nF 16V X7R 0603	C474	9965 100 09686	10F 16V 1206
C252	9965 000 42260	10nF 50V X7R 0603	C416	9965 000 42228	100nF 16V X7R 0603	C475	9965 000 44022	10uF 10% 16V
C254	9965 000 42260	10nF 50V X7R 0603	C417	9965 000 43988	4.7uF 10% 10V	C475	9965 000 44023	10uF 10% 10V
C255	9965 000 42228	100nF 16V X7R 0603	C417	9965 100 03698	4.7uF +/-10% 10V	C475	9965 000 44024	10uF 10% 10V
C256	9965 000 42228	100nF 16V X7R 0603	C418	9965 000 42228	100nF 16V X7R 0603	C475	9965 100 05856	10uF 16V 10% 1206
C257	9965 000 42403	10uF 25V 20% 1210	C419	9965 000 42228	100nF 16V X7R 0603	C475	9965 100 09686	10F 16V 1206
C257	9965 100 08198	10uF 10V 0805	C420	9965 000 42228	100nF 16V X7R 0603	C476	9965 000 44022	10uF 10% 16V
C257	9965 100 09685	10F 10V	C421	9965 000 42228	100nF 16V X7R 0603	C476	9965 000 44023	10uF 10% 10V
C258	9965 000 42228	100nF 16V X7R 0603	C422	9965 000 42403	10uF 25V 20% 1210	C476	9965 000 44024	10uF 10% 10V
C259	9965 000 42228	100nF 16V X7R 0603	C422	9965 100 08198	10uF 10V 0805	C476	9965 100 05856	10uF 16V 10% 1206
C260	9965 000 42680	18pF 50V NPO 5% 0603	C422	9965 100 09685	10F 10V	C476	9965 100 09686	10F 16V 1206
C261	9965 000 42680	18pF 50V NPO 5% 0603	C423	9965 000 42228	100nF 16V X7R 0603	C477	9965 000 44022	10uF 10% 16V
C262	9965 000 42228	100nF 16V X7R 0603	C424	9965 000 42228	100nF 16V X7R 0603	C477	9965 000 44023	10uF 10% 10V
C263	9965 000 42228	100nF 16V X7R 0603	C425	9965 000 42228	100nF 16V X7R 0603	C477	9965 000 44024	10uF 10% 10V
C264	9965 000 42403	10uF 25V 20% 1210	C426	9965 000 42228	100nF 16V X7R 0603	C477	9965 100 05856	10uF 16V 10% 1206
C264	9965 100 08198	10uF 10V 0805	C427	9965 000 44016	10uF 10% 16V	C477	9965 100 09686	10F 16V 1206
C264	9965 100 09685	10F 10V	C427	9965 000 44017	10uF 20% 16V	C501	9965 000 42228	100nF 16V X7R 0603
C265	9965 000 42228	100nF 16V X7R 0603	C427	9965 000 44018	10uF 10% 16V	C502	9965 000 37776	100uF 25V
C266	9965 000 42228	100nF 16V X7R 0603	C427	9965 000 44019	CER 10U 10V X7R 10%	C502	9965 000 43645	100uF 25V
C267	9965 000 42228	100nF 16V X7R 0603	C427	9965 000 44020	10uF 10% 10V	C502	9965 100 08191	100uF 16V
C268	9965 000 42228	100nF 16V X7R 0603	C427	9965 000 45057	10uF 10% 16V	C502	9965 100 08192	100uF 16V
C269	9965 000 42228	100nF 16V X7R 0603	C428	9965 000 43988	4.7uF 10% 10V	C503	9965 100 03699	220uF 25V
C270	9965 000 42228	100nF 16V X7R 0603	C428	9965 100 03698	4.7uF +/-10% 10V	C503	9965 100 05107	2200uF 25V
C271	9965 000 42228	100nF 16V X7R 0603	C429	9965 000 42228	100nF 16V X7R 0603	C503	9965 100 08193	150F 25V
C272	9965 000 42228	100nF 16V X7R 0603	C430	9965 000 42235	47uF 25V 6.3X5.3mm	C503	9965 100 08194	150F 25V
C273	9965 000 42228	100nF 16V X7R 0603	C430	9965 100 03679	47uF 16V	C504	9965 000 42228	100nF 16V X7R 0603
C274	9965 000 42403	10uF 25V 20% 1210	C430	9965 100 03680	47uF 16V	C505	9965 000 42228	100nF 16V X7R 0603
C274	9965 100 08198	10uF 10V 0805	C430	9965 100 03697	47uF 25V	C506	9965 000 42403	10uF 16V 20% 1210
C274	9965 100 09685	10F 10V	C430	9965 100 05108	47uF 25V	C506	9965 100 08198	10uF 10V 0805
C275	9965 000 42228	100nF 16V X7R 0603	C430	9965 100 08199	47uF 16V	C506	9965 100 09685	10F 10V
C276	9965 000 42228	100nF 16V X7R 0603	C431	9965 000 42228	100nF 16V X7R 0603	C507	9965 000 42235	47uF 25V 6.3X5.3mm
C277	9965 000 42228	100nF 16V X7R 0603	C432	9965 000 42228	100nF 16V X7R 0603	C507	9965 100 03679	47uF 16V
C278	9965 000 42228	100nF 16V X7R 0603	C433	9965 000 42228	100nF 16V X7R 0603	C507	9965 100 03680	47uF 16V
C279	9965 000 42228	100nF 16V X7R 0603	C434	9965 000 42403	10uF 25V 20% 1210	C507	9965 100 03697	47uF 25V
C280	9965 000 42228	100nF 16V X7R 0603	C434	9965 100 08198	10uF 10V 0805	C507	9965 100 05108	47uF 25V
C281	9965 000 42403	10uF 25V 20% 1210	C434	9965 100 09685	10F 10V	C507	9965 100 08199	47uF 16V
C281	9965 100 08198	10uF 10V 0805	C435	9965 000 42228	100nF 16V X7R 0603	C508	9965 000 42228	100nF 16V X7R 0603
C281	9965 100 09685	10F 10V	C436	9965 000 42228	100nF 16V X7R 0603	C509	9965 000 42228	100nF 16V X7R 0603
C282	9965 000 42228	100nF 16V X7R 0603	C437	9965 000 42228	100nF 16V X7R 0603	C510	9965 000 42228	100nF 16V X7R 0603
C283	9965 000 42228	100nF 16V X7R 0603	C438	9965 000 42228	100nF 16V X7R 0603	C511	9965 000 42228	100nF 16V X7R 0603
C284	9965 000 42228	100nF 16V X7R 0603	C439	9965 000 42228	100nF 16V X7R 0603	C512	9965 000 42228	100nF 16V X7R 0603
C285	9965 000 42228	100nF 16V X7R 0603	C440	9965 000 42228	100nF 16V X7R 0603	C513	9965 000 42228	100nF 16V X7R 0603
C286	9965 000 42228	100nF 16V X7R 0603	C441	9965 000 42228	100nF 16V X7R 0603	C514	9965 000 42228	100nF 16V X7R 0603
C350								

C524	9965 000 42228	100nF 16V X7R 0603	C664	9965 000 43983	47nF 20 50V	C774	9965 100 09685	10F 10V
C525	9965 000 42228	100nF 16V X7R 0603	C665	9965 000 42229	22pF 50V NPO 0603	C775	9965 000 42403	10µF 25V 20% 1210
C526	9965 000 42228	100nF 16V X7R 0603	C666	9965 000 42231	330pF 50V NPO 0603	C776	9965 100 08198	10µF 10V 0805
C527	9965 000 43988	4.7µF 10% 10V	C667	9965 000 42231	330pF 50V NPO 0603	C775	9965 100 09685	10F 10V
C527	9965 100 03698	4.7µF +/-10% 10V	C668	9965 000 43983	47nF 20 50V	C776	9965 000 42403	10µF 25V 20% 1210
C528	9965 000 42228	100nF 16V X7R 0603	C669	9965 000 42690	47pF 50V NPO 5% 0603	C776	9965 100 08198	10µF 10V 0805
C529	9965 000 42228	100nF 16V X7R 0603	C670	9965 000 42231	330pF 50V NPO 0603	C776	9965 100 09685	10F 10V
C530	9965 000 42228	100nF 16V X7R 0603	C671	9965 000 42231	330pF 50V NPO 0603	C777	9965 000 42403	10µF 25V 20% 1210
C531	9965 000 42228	100nF 16V X7R 0603	C672	9965 000 43983	47nF 20 50V	C777	9965 100 08198	10µF 10V 0805
C532	9965 000 42228	100nF 16V X7R 0603	C673	9965 000 43983	47nF 20 50V	C777	9965 100 09685	10F 10V
C533	9965 000 42228	100nF 16V X7R 0603	C674	9965 000 43983	47nF 20 50V	C778	9965 000 42228	100nF 16V X7R 0603
C534	9965 000 42228	100nF 16V X7R 0603	C675	9965 000 42673	10nF 50V Y5V 20% 0603	C779	9965 000 42403	10µF 25V 20% 1210
C535	9965 000 42228	100nF 16V X7R 0603	C676	9965 000 42673	10nF 50V Y5V 20% 0603	C779	9965 100 08198	10µF 10V 0805
C536	9965 000 42228	100nF 16V X7R 0603	C700	9965 000 42228	100nF 16V X7R 0603	C779	9965 100 09685	10F 10V
C537	9965 000 42228	100nF 16V X7R 0603	C701	9965 000 42228	100nF 16V X7R 0603	C780	9965 000 42403	10µF 25V 20% 1210
C538	9965 000 37776	100µF 25V	C702	9965 000 42228	100nF 16V X7R 0603	C780	9965 100 08198	10µF 10V 0805
C538	9965 000 43645	100µF 25V	C703	9965 000 42228	100nF 16V X7R 0603	C780	9965 100 09685	10F 10V
C538	9965 100 08191	100µF 16V	C704	9965 000 42228	100nF 16V X7R 0603	C781	9965 000 42403	10µF 25V 20% 1210
C538	9965 100 08192	100µF 16V	C705	9965 000 42228	100nF 16V X7R 0603	C781	9965 100 08198	10µF 10V 0805
C539	9965 000 42228	100nF 16V X7R 0603	C706	9965 000 42228	100nF 16V X7R 0603	C781	9965 100 09685	10F 10V
C540	9965 000 42228	100nF 16V X7R 0603	C707	9965 000 42228	100nF 16V X7R 0603	C782	9965 000 42228	100nF 16V X7R 0603
C541	9965 000 42228	100nF 16V X7R 0603	C708	9965 000 42260	10nF 50V X7R 0603	C783	9965 000 42401	220pF NPO 50V 5% 0603
C542	9965 000 42228	100nF 16V X7R 0603	C709	9965 000 42260	10nF 50V X7R 0603	C784	9965 000 42403	10µF 25V 20% 1210
C543	9965 000 42228	100nF 16V X7R 0603	C710	9965 000 42228	100nF 16V X7R 0603	C784	9965 100 08198	10µF 10V 0805
C544	9965 000 42228	100nF 16V X7R 0603	C711	9965 000 42228	100nF 16V X7R 0603	C784	9965 100 09685	10F 10V
C545	9965 000 42228	100nF 16V X7R 0603	C712	9965 000 42228	100nF 16V X7R 0603	C789	9965 000 43992	220µF
C546	9965 000 42228	100nF 16V X7R 0603	C713	9965 000 42228	100nF 16V X7R 0603	C789	9965 000 43993	220µF 10V
C547	9965 000 42228	100nF 16V X7R 0603	C714	9965 000 42228	100nF 16V X7R 0603	C790	9965 000 43992	220µF
C548	9965 000 42228	100nF 16V X7R 0603	C715	9965 000 42228	100nF 16V X7R 0603	C790	9965 000 43993	220µF 10V
C549	9965 000 42228	100nF 16V X7R 0603	C716	9965 000 42228	100nF 16V X7R 0603	C800	9965 000 43913	470µF 35V
C550	9965 000 42228	100nF 16V X7R 0603	C717	9965 000 42228	100nF 16V X7R 0603	C800	9965 000 43914	470µF 35V
C551	9965 000 42228	100nF 16V X7R 0603	C718	9965 000 42228	100nF 16V X7R 0603	C800	9965 100 08195	100µF 35V
C552	9965 000 42228	100nF 16V X7R 0603	C719	9965 000 42228	100nF 16V X7R 0603	C800	9965 100 08196	100µF 35V
C553	9965 000 42228	100nF 16V X7R 0603	C720	9965 000 42235	47µF 25V 6.3X5.3mm	C800	9965 100 08197	100µF 35V
C554	9965 000 42228	100nF 16V X7R 0603	C720	9965 100 03679	47µF 16V	C801	9965 000 43913	470µF 35V
C555	9965 100 03699	220µF 25V	C720	9965 100 03680	47µF 16V	C801	9965 000 43914	470µF 35V
C555	9965 100 05107	220µF 25V	C720	9965 100 03697	47µF 25V	C802	9965 000 43989	470µF 20% 50V
C555	9965 100 08193	150F 25V	C720	9965 100 05108	47µF 25V	C803	9965 000 42262	100nF 50V Y5V 0603
C555	9965 100 08194	150F 25V	C720	9965 100 08199	47µF 16V	C804	9965 000 42262	100nF 50V Y5V 0603
C556	9965 000 42233	10µF 20% 10V 1206	C721	9965 000 43488	100nF 25V 0603	C805	9965 000 43986	15nF 1% 50V
C557	9965 000 43988	4.7µF 10% 10V	C725	9965 000 42228	100nF 16V X7R 0603	C806	9965 000 42262	100nF 50V Y5V 0603
C557	9965 100 03698	4.7µF +/-10% 10V	C726	9965 000 43977	1nF 5% 25V 0603	C807	9965 000 42604	470µF 25V
C558	9965 000 42228	100nF 16V X7R 0603	C727	9965 000 42260	10nF 50V X7R 0603	C807	9965 000 42605	470µF 25V EB 10X13mm
C559	9965 000 42233	10µF 20% 10V 1206	C728	9965 000 43980	100nF 20% 25V 0603	C807	9965 000 43917	1000µF 25V
C560	9965 000 43988	4.7µF 10% 10V	C729	9965 000 42693	5pF 50V NPO 0603	C808	9965 000 42262	100nF 50V Y5V 0603
C560	9965 100 03698	4.7µF +/-10% 10V	C730	9965 000 42260	10nF 50V X7R 0603	C809	9965 000 43982	470pF
C561	9965 000 42228	100nF 16V X7R 0603	C731	9965 000 42260	10nF 50V X7R 0603	C810	9965 000 43989	470nF 20% 50V
C562	9965 000 42228	100nF 16V X7R 0603	C732	9965 000 42693	5pF 50V NPO 0603	C811	9965 000 43989	470nF 20% 50V
C563	9965 000 42403	10µF 25V 20% 1210	C733	9965 000 42260	10nF 50V X7R 0603	C812	9965 000 42604	470µF 25V
C563	9965 100 08198	10µF 10V 0805	C734	9965 000 42260	10nF 50V X7R 0603	C812	9965 000 42605	470µF 25V EB 10X13mm
C563	9965 100 09685	10F 10V	C735	9965 000 42231	330pF 50V NPO 0603	C812	9965 000 43917	1000µF 25V
C564	9965 000 42228	100nF 16V X7R 0603	C736	9965 000 42231	330pF 50V NPO 0603	C813	9965 000 42262	100nF 50V Y5V 0603
C565	9965 000 42228	100nF 16V X7R 0603	C737	9965 000 42693	5pF 50V NPO 0603	C814	9965 000 42262	100nF 50V Y5V 0603
C566	9965 000 42228	100nF 16V X7R 0603	C738	9965 000 42260	10nF 50V X7R 0603	C815	9965 000 43986	15nF 1% 50V
C567	9965 000 42228	100nF 16V X7R 0603	C739	9965 000 42231	330pF 50V NPO 0603	C816	9965 000 43985	1µF 20% 16V
C568	9965 000 42228	100nF 16V X7R 0603	C740	9965 000 42231	330pF 50V NPO 0603	C817	9965 000 43985	1µF 20% 16V
C569	9965 000 42228	100nF 16V X7R 0603	C741	9965 000 42229	22pF 50V NPO 0603	C818	9965 000 43987	470nF 20% 16V
C570	9965 000 42228	100nF 16V X7R 0603	C742	9965 000 42693	5pF 50V NPO 0603	C819	9965 000 42262	100nF 50V Y5V 0603
C571	9965 000 42228	100nF 16V X7R 0603	C760	9965 000 42228	100nF 16V X7R 0603	C820	9965 000 42262	100nF 50V Y5V 0603
C572	9965 000 42228	100nF 16V X7R 0603	C761	9965 000 42403	10µF 25V 20% 1210	C821	9965 000 42235	47µF 25V 6.3X5.3mm
C573	9965 000 42228	100nF 16V X7R 0603	C761	9965 100 08198	10µF 10V 0805	C821	9965 100 03697	47µF 25V
C574	9965 000 42228	100nF 16V X7R 0603	C761	9965 100 09685	10F 10V	C821	9965 100 05108	47µF 25V
C575	9965 000 42228	100nF 16V X7R 0603	C762	9965 000 42403	10µF 25V 20% 1210	C822	9965 000 42262	100nF 50V Y5V 0603
C576	9965 000 42228	100nF 16V X7R 0603	C762	9965 100 08198	10µF 10V 0805	C823	9965 000 43985	1µF 20% 16V
C577	9965 000 42228	100nF 16V X7R 0603	C762	9965 100 09685	10F 10V	C824	9965 000 43985	1µF 20% 16V
C578	9965 000 42228	100nF 16V X7R 0603	C763	9965 000 42228	100nF 16V X7R 0603	C825	9965 000 42231	330pF 50V NPO 0603
C579	9965 000 42228	100nF 16V X7R 0603	C764	9965 000 42228	100nF 16V X7R 0603	C826	9965 000 42231	330pF 50V NPO 0603
C580	9965 000 42228	100nF 16V X7R 0603	C765	9965 000 42228	100nF 16V X7R 0603	C827	9965 000 42262	100nF 50V Y5V 0603
C581	9965 000 42228	100nF 16V X7R 0603	C766	9965 000 42403	10µF 25V 20% 1210	C828	9965 000 43982	470pF
C601	9965 000 43977	1nF 5% 25V 0603	C766	9965 100 08198	10µF 10V 0805	C829	9965 000 42262	100nF 50V Y5V 0603
C602	9965 000 42678	15pF -5% 50V 0603	C766	9965 100 09685	10F 10V	C830	9965 100 03699	220µF 25V
C603	9965 000 42678	15pF -5% 50V 0603	C767	9965 000 42403	10µF 25V 20% 1210	C830	9965 100 05107	220µF 25V
C604	9965 000 42678	15pF -5% 50V 0603	C767	9965 100 08198	10µF 10V 0805	C850	9965 000 42228	100nF 16V X7R 0603
C605	9965 000 42678	15pF -5% 50V 0603	C767	9965 100 09685	10F 10V	C851	9965 000 42698	10µF 16V 20% 1206
C606	9965 000 42260	10nF 50V X7R 0603	C768	9965 000 42403	10µF 25V 20% 1210	C900	9965 000 42260	10nF 50V X7R 0603
C607	9965 000 42678	15pF -5% 50V 0603	C768	9965 100 08198	10µF 10V 0805	C901	9965 000 43980	100nF 20% 25V 0603
C608	9965 000 42678	15pF -5% 50V 0603	C768	9965 100 09685	10F 10V	C902	9965 100 05995	47F 25V
C609	9965 000 42260	10nF 50V X7R 0603	C769	9965 000 42403	10µF 25V 20% 1210	C903	9965 000 42678	15pF -5% 50V 0603
C610	9965 000 42260	10nF 50V X7R 0603	C769	9965 100 08198	10µF 10V 0805	C904	9965 000 43980	100nF 20% 25V 0603
C611	9965 000 42260	10nF 50V X7R 0603	C769	9965 100 09685	10F 10V	C905	9965 000 42678	15pF -5% 50V 0603
C612	9965 000 42260	10nF 50V X7R 0603	C770	9965 000 42403	10µF 25V 20% 1210	C906	9965 000 43994	10µF 16V
C613	9965 000 42260	10nF 50V X7R 0603	C770	9965 100 08198	10µF 10V 0805	C907	9965 000 43977	1nF 5% 25V 0603
C641	9965 000 42231	330pF 50V NPO 0603	C770	9965 100 09685	10F 10V	C908	9965 000 42678	15pF -5% 50V 0603
C642	9965 000 42231	330pF 50V NPO 0603	C771	9965 000 42403	10µF 25V 20% 1210	C909	9965 000 42260	10nF 50V X7R 0603
C644	9965 000 42231	330pF 50V NPO 0603	C771	9965 100 08198	10µF 10V 0805	C910	9965 000 42231	330pF 50

C921	9965 000 42400	1µF 10V Y5V 20% 0603	R147	9965 000 42669	6.8kΩ 5% 1/10W	R359	9965 000 42212	0Ω 5% 1/10W
C922	9965 000 42400	1µF 10V Y5V 20% 0603	R148	9965 000 44051	220Ω 1% 1/10W	R362	9965 000 42217	22Ω 5% 1/10W
C923	9965 000 42400	1µF 10V Y5V 20% 0603	R149	9965 000 43975	560Ω 1% 1/8W	R363	9965 000 42222	33Ω 5% 1/10W
C924	9965 000 42400	1µF 10V Y5V 20% 0603	R150	9965 000 43912	1.2Ω 5% 2W	R364	9965 000 42218	220Ω 5% 1/10W
C925	9965 000 42403	10µF 25V 20% 1210	R151	9965 000 42213	100Ω 5% 1/10W	R365	9965 000 42222	33Ω 5% 1/10W
C925	9965 000 43994	10µF 16V	R152	9965 000 42220	22kΩ 5% 1/10W	R366	9965 000 42277	47kΩ 5% 1/10W
C926	9965 000 43980	100nF 20% 25V 0603	R153	9965 000 42284	0Ω 1/10W	R367	9965 000 42214	10kΩ 5% 1/10W
C927	9965 000 42260	10nF 50V X7R 0603	R154	9965 000 42213	100Ω 5% 1/10W	R368	9965 000 42214	10kΩ 5% 1/10W
C928	9965 000 43980	100nF 20% 25V 0603	R155	9965 000 42284	0Ω 1/10W	R369	9965 000 43972	8.2kΩ 5% 1/10W
C929	9965 000 43980	100nF 20% 25V 0603	R156	9965 000 42277	47kΩ 5% 1/10W	R370	9965 000 42213	100Ω 5% 1/10W
C930	9965 000 43980	100nF 20% 25V 0603	R157	9965 000 42220	22kΩ 5% 1/10W	R371	9965 000 42214	10kΩ 5% 1/10W
C931	9965 000 43980	100nF 20% 25V 0603	R158	9965 000 42220	22kΩ 5% 1/10W	R372	9965 000 42213	100Ω 5% 1/10W
C932	9965 000 42260	10nF 50V X7R 0603	R159	9965 000 42214	10kΩ 5% 1/10W	R373	9965 000 42666	51Ω 5% 1/10W
C933	9965 000 42260	10nF 50V X7R 0603	R160	9965 000 43954	120Ω 1% 1/10W	R374	9965 000 42225	4.7kΩ 5% 1/10W
C934	9965 000 42264	1µF 16V 0805	R161	9965 000 43960	24Ω 1% 1/10W	R375	9965 000 42225	4.7kΩ 5% 1/10W
C935	9965 000 42264	1µF 16V 0805	R162	9965 000 43954	120Ω 1% 1/10W	R377	9965 000 42214	10kΩ 5% 1/10W
C936	9965 000 42264	1µF 16V 0805	R163	9965 000 43974	1Ω 5% 1/8W	R378	9965 000 42218	220Ω 5% 1/10W
C937	9965 000 42264	1µF 16V 0805	R164	9965 000 42214	10kΩ 5% 1/10W	R379	9965 000 42225	4.7kΩ 5% 1/10W
C938	9965 000 42264	1µF 16V 0805	R165	9965 000 42225	4.7kΩ 5% 1/10W	R380	9965 000 42213	100Ω 5% 1/10W
C939	9965 000 42260	10nF 50V X7R 0603	R166	9965 100 02778	15kΩ 1% 0.1W	R381	9965 000 42213	100Ω 5% 1/10W
C940	9965 000 42264	1µF 16V 0805	R167	9965 000 42214	10kΩ 5% 1/10W	R382	9965 000 42213	100Ω 5% 1/10W
CN100	9965 100 03429	Connector	R169	9965 000 42225	4.7kΩ 5% 1/10W	R383	9965 000 42225	4.7kΩ 5% 1/10W
CN351	9965 000 44317	Connector 2.0mm 3p	R170	9965 000 42213	100Ω 5% 1/10W	R384	9965 000 42225	4.7kΩ 5% 1/10W
CN601	9965 000 43922	RCA Jack g/b/r g/b/r	R171	9965 000 42214	10kΩ 5% 1/10W	R385	9965 000 42213	100Ω 5% 1/10W
CN601	9965 000 43925	RCA Jack g/b/r g/b/r	R172	9965 000 40053	1KΩ 1/10W 5%	R386	9965 000 42213	100Ω 5% 1/10W
CN601	9965 100 03446	RCA Jack g/b/r+g/b/r	R173	9965 000 42225	4.7kΩ 5% 1/10W	R387	9965 000 42213	100Ω 5% 1/10W
CN640	9965 000 42612	RCA Jack	R174	9965 000 39751	0Ω 1/8W	R388	9965 000 42219	2.2kΩ 5% 1/10W
CN640	9965 000 43921	RCA Jack w/r w/r 2pj	R175	9965 000 39751	0Ω 1/8W	R390	9965 000 42225	4.7kΩ 5% 1/10W
CN660	9965 000 43920	RCA Jack 1p Bk	R176	9965 000 39751	0Ω 1/8W	R391	9965 000 42225	4.7kΩ 5% 1/10W
CN660	9965 000 44598	RCA JACK 1p BL	R178	9965 000 42213	100Ω 5% 1/10W	R392	9965 000 42225	4.7kΩ 5% 1/10W
CN661	9965 000 43923	RCA Jack Wh/Ye/Rd	R179	9965 000 42395	10kΩ 1% 1/10W	R394	9965 000 42225	4.7kΩ 5% 1/10W
CN661	9965 000 43924	RCA Jack Wh/Ye/Rd	R180	9965 000 43975	560Ω 1% 1/8W	R395	9965 000 43961	3.9kΩ 5% 1/10W
CN662	9965 000 44320	Connector 2*7p	R181	9965 000 42661	2.7kΩ 1% 1/10W	R396	9965 000 42225	4.7kΩ 5% 1/10W
CN700	9965 100 05953	HDMI Header 19p	R182	9965 000 42212	0Ω 5% 1/10W	R397	9965 000 42225	4.7kΩ 5% 1/10W
CN701	9965 100 05953	HDMI Header 19p	R183	9965 000 43975	560Ω 1% 1/8W	R398	9965 000 42225	4.7kΩ 5% 1/10W
CN726	9965 000 43927	DB15 Right Angle f	R184	9965 000 44051	220Ω 1% 1/10W	R399	9965 000 42213	100Ω 5% 1/10W
CN726	9965 000 43928	D-SUB Conn 15p f	R185	9965 000 39751	0Ω 1/8W	R400	9965 000 42213	100Ω 5% 1/10W
CN727	9965 000 43926	Phone Jack 3.5MM 3p	R186	9965 000 39751	0Ω 1/8W	R401	9965 000 43971	820Ω 1% 1/10W
CN850	9965 000 44323	Conn. 2*20p m	R187	9965 000 40053	1KΩ 1/10W 5%	R501	9965 000 42213	100Ω 5% 1/10W
CN900	9965 000 45310	Connector FF 0.5mm	R188	9965 000 42212	0Ω 5% 1/10W	R502	9965 000 42217	22Ω 5% 1/10W
CN900	9965 100 06905	Connector 16p	R189	9965 000 43975	560Ω 1% 1/8W	R504	9965 000 42217	22Ω 5% 1/10W
CON700	9965 000 44002	HDMI Header 19p	R190	9965 000 43975	560Ω 1% 1/8W	R505	9965 000 42217	22Ω 5% 1/10W
CON701	9965 000 44002	HDMI Header 19p	R191	9965 100 02779	4.7kΩ 1% 0.1W	R506	9965 000 42217	22Ω 5% 1/10W
			R201	9965 000 42213	100Ω 5% 1/10W	R507	9965 000 42217	22Ω 5% 1/10W
			R202	9965 000 42225	4.7kΩ 5% 1/10W	R508	9965 000 42213	100Ω 5% 1/10W
			R205	9965 000 42212	0Ω 5% 1/10W	R509	9965 000 42225	4.7kΩ 5% 1/10W
			R206	9965 000 42212	0Ω 5% 1/10W	R510	9965 000 42664	47Ω 5% 1/10W
			R207	9965 000 43336	75Ω 5% 1/10W	R511	9965 000 42664	47Ω 5% 1/10W
			R208	9965 000 42214	10kΩ 5% 1/10W	R512	9965 000 42664	47Ω 5% 1/10W
			R209	9965 000 42214	10kΩ 5% 1/10W	R513	9965 000 42664	47Ω 5% 1/10W
			R210	9965 000 42225	4.7kΩ 5% 1/10W	R514	9965 000 42664	47Ω 5% 1/10W
			R211	9965 000 42225	4.7kΩ 5% 1/10W	R515	9965 000 42664	47Ω 5% 1/10W
			R212	9965 000 42212	0Ω 5% 1/10W	R516	9965 000 42664	47Ω 5% 1/10W
			R213	9965 000 42225	4.7kΩ 5% 1/10W	R517	9965 000 42664	47Ω 5% 1/10W
			R214	9965 000 43962	39kΩ 5% 1/10W	R518	9965 000 43336	75Ω 5% 1/10W
			R215	9965 000 43962	39kΩ 5% 1/10W	R519	9965 000 43336	75Ω 5% 1/10W
			R217	9965 000 42219	2.2kΩ 5% 1/10W	R520	9965 000 43336	75Ω 5% 1/10W
			R218	9965 000 42284	0Ω 1/10W	R521	9965 000 43336	75Ω 5% 1/10W
			R219	9965 000 44038	220kΩ 5% 1/10W	R522	9965 000 43336	75Ω 5% 1/10W
			R220	9965 000 42215	100kΩ 5% 1/10W	R523	9965 000 43336	75Ω 5% 1/10W
			R250	9965 000 44050	1.1kΩ 5% 1/10W	R524	9965 000 43336	75Ω 5% 1/10W
			R251	9965 000 42225	4.7kΩ 5% 1/10W	R525	9965 000 43336	75Ω 5% 1/10W
			R252	9965 000 42225	4.7kΩ 5% 1/10W	R601	9965 000 42226	68Ω 5% 1/10W
			R253	9965 000 42225	4.7kΩ 5% 1/10W	R602	9965 000 43336	75Ω 5% 1/10W
			R254	9965 000 42222	33Ω 5% 1/10W	R603	9965 000 43336	75Ω 5% 1/10W
			R255	9965 000 42222	33Ω 5% 1/10W	R604	9965 000 43336	75Ω 5% 1/10W
			R256	9965 000 42222	33Ω 5% 1/10W	R605	9965 000 43336	75Ω 5% 1/10W
			R257	9965 000 42222	33Ω 5% 1/10W	R606	9965 000 42226	68Ω 5% 1/10W
			R258	9965 000 42222	33Ω 5% 1/10W	R607	9965 000 43336	75Ω 5% 1/10W
			R259	9965 000 42222	33Ω 5% 1/10W	R608	9965 000 43336	75Ω 5% 1/10W
			R260	9965 000 42222	33Ω 5% 1/10W	R609	9965 000 42226	68Ω 5% 1/10W
			R261	9965 000 42222	33Ω 5% 1/10W	R610	9965 000 42226	68Ω 5% 1/10W
			R262	9965 000 42216	1MΩ 5% 1/10W	R611	9965 000 42213	100Ω 5% 1/10W
			R263	9965 000 42222	33Ω 5% 1/10W	R612	9965 000 42213	100Ω 5% 1/10W
			R264	9965 000 42222	33Ω 5% 1/10W	R613	9965 000 42213	100Ω 5% 1/10W
			R265	9965 000 42222	33Ω 5% 1/10W	R641	9965 000 40053	1KΩ 1/10W 5%
			R266	9965 000 42222	33Ω 5% 1/10W	R642	9965 000 42221	27kΩ 5% 1/10W
			R301	9965 000 42212	0Ω 5% 1/10W	R643	9965 000 40053	1KΩ 1/10W 5%
			R302	9965 000 42212	0Ω 5% 1/10W	R644	9965 000 42221	27kΩ 5% 1/10W
			R303	9965 000 43336	75Ω 5% 1/10W	R647	9965 000 40053	1KΩ 1/10W 5%
			R304	9965 000 43336	75Ω 5% 1/10W	R648	9965 000 42221	27kΩ 5% 1/10W
			R305	9965 000 43336	75Ω 5% 1/10W	R649	9965 000 40053	1KΩ 1/10W 5%
			R346	9965 000 43965	470Ω 1% 1/10W	R650	9965 000 42221	27kΩ 5% 1/10W
			R347	9965 000 44324	22kΩ 1% 0.1W	R658	9965 000 42213	100Ω 5% 1/10W
			R348	9965 000 42225	4.7kΩ 5% 1/10W	R659	9965 000 42213	100Ω 5% 1/10W
			R349	9965 000 42217	22Ω 5% 1/10W	R662	9965 000 42225	4.7kΩ 5% 1/10W
			R351	9965 000 42214	10kΩ 5% 1/10W	R663	9965 000 43336	75Ω 5% 1/10W
			R352	9965 000 42214	10kΩ 5% 1/10W	R664	9965 000 42213	100Ω 5% 1/10W
			R353	9965 000 42214	10kΩ 5% 1/10W	R665	9965 000 43336	75Ω 5% 1/10W
			R354	9965 000 42214	10kΩ 5% 1/10W	R666	9965 000 42213	100Ω 5% 1/10W
			R355	9965 000 42214	10kΩ 5% 1/10W	R667	9965 000 43336	75Ω 5% 1/10W
			R356	9965 000 42214	10kΩ 5% 1/10W	R668	9965 000 42213	100Ω 5% 1/10W
			R357	9965 000 42214	10kΩ 5% 1/10W	R669	9965 000 40053	1KΩ 1/10W 5%
			R358	9965 000 42214	10kΩ 5% 1/10W	R670	9965 000 42221	27kΩ 5% 1/10W

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R100	9965 000 42212	0Ω 5% 1/10W
R101	9965 000 42395	10kΩ 1% 1/10W
R102	9965 000 42661	2.7kΩ 1% 1/10W
R103	9965 000 42220	22kΩ 5% 1/10W
R104	9965 000 42213	100Ω 5% 1/10W
R105	9965 000 42220	22kΩ 5% 1/10W
R106	9965 000 42214	10kΩ 5% 1/10W
R107	9965 000 42226	68Ω 5% 1/10W
R108	9965 000 42218	220Ω 5% 1/10W
R109	9965 000 42226	68Ω 5% 1/10W
R110	9965 000 43966	4.7Ω 5% 1/10W
R111	9965 000 42656	10Ω 5% 1/10W
R112	9965 000 43957	2.2Ω 5% 1/10W
R113	9965 000 43962	39kΩ 5% 1/10W
R114	9965 000 43487	3.3kΩ 5% 1/10W
R115	9965 000 43487	3.3kΩ 5% 1/10W
R116	9965 000 40053	1

R671	9965 000 40053	1KΩ 1/10W 5%	R780	9965 000 43963	3.9kΩ 1% 1/10W	R938	9965 100 05994	47kΩ 1% 1/10W
R672	9965 000 42221	27kΩ 5% 1/10W	R780	9965 000 44599	5kΩ 1% 0.1W	R939	9965 100 05994	47kΩ 1% 1/10W
R673	9965 000 42225	4.7kΩ 5% 1/10W	R781	9965 000 42222	33Ω 5% 1/10W	R940	9965 000 42226	68Ω 5% 1/10W
R674	9965 000 42213	100Ω 5% 1/10W	R782	9965 000 43963	3.9kΩ 1% 1/10W	R941	9965 000 42226	68Ω 5% 1/10W
R675	9965 000 42213	100Ω 5% 1/10W	R782	9965 000 44599	5kΩ 1% 0.1W	R942	9965 000 42213	100Ω 5% 1/10W
R676	9965 000 42213	100Ω 5% 1/10W	R785	9965 000 42225	4.7kΩ 5% 1/10W	R943	9965 000 42226	68Ω 5% 1/10W
R677	9965 000 42225	4.7kΩ 5% 1/10W	R786	9965 000 42277	47kΩ 5% 1/10W	R944	9965 000 42213	100Ω 5% 1/10W
R678	9965 000 42212	0Ω 5% 1/10W	R787	9965 000 42277	47kΩ 5% 1/10W	R945	9965 000 42226	68Ω 5% 1/10W
R686	9965 000 40053	1KΩ 1/10W 5%	R788	9965 000 42212	0Ω 5% 1/10W	R946	9965 000 42213	100Ω 5% 1/10W
R687	9965 000 42662	330Ω 5% 1/10W	R789	9965 000 42212	0Ω 5% 1/10W	R947	9965 000 42213	100Ω 5% 1/10W
R688	9965 000 42662	330Ω 5% 1/10W	R790	9965 000 43970	7.5kΩ 5% 1/10W	R948	9965 000 40053	1KΩ 1/10W 5%
R689	9965 000 42213	100Ω 5% 1/10W	R791	9965 000 43970	7.5kΩ 5% 1/10W	R949	9965 000 42213	100Ω 5% 1/10W
R690	9965 000 42213	100Ω 5% 1/10W	R792	9965 000 40053	1KΩ 1/10W 5%	R950	9965 000 42213	100Ω 5% 1/10W
R691	9965 000 42225	4.7kΩ 5% 1/10W	R793	9965 000 40053	1KΩ 1/10W 5%	R951	9965 000 42213	100Ω 5% 1/10W
R692	9965 000 42212	0Ω 5% 1/10W	R794	9965 000 42212	0Ω 5% 1/10W	R952	9965 000 42284	0Ω 1/10W
R693	9965 000 42212	0Ω 5% 1/10W	R794	9965 000 44051	220Ω 1% 1/10W	R953	9965 000 42284	0Ω 1/10W
R694	9965 000 42214	10kΩ 5% 1/10W	R795	9965 000 42212	0Ω 5% 1/10W	R954	9965 000 42284	0Ω 1/10W
R695	9965 000 42214	10kΩ 5% 1/10W	R795	9965 000 44051	220Ω 1% 1/10W	R955	9965 000 42212	0Ω 5% 1/10W
R696	9965 000 42214	10kΩ 5% 1/10W	R801	9965 000 42225	4.7kΩ 5% 1/10W	RP501	9965 000 43951	22Ω 5%
R697	9965 000 42214	10kΩ 5% 1/10W	R802	9965 000 42225	4.7kΩ 5% 1/10W	RP502	9965 000 43951	22Ω 5%
R698	9965 000 42225	4.7kΩ 5% 1/10W	R803	9965 000 42225	4.7kΩ 5% 1/10W	RP503	9965 000 43952	47Ω 5% 1/16W
R699	9965 000 42225	4.7kΩ 5% 1/10W	R804	9965 000 43962	39kΩ 5% 1/10W	RP504	9965 000 43952	47Ω 5% 1/16W
R700	9965 000 40053	1KΩ 1/10W 5%	R805	9965 000 42216	1MΩ 5% 1/10W	RP505	9965 000 43951	22Ω 5%
R701	9965 000 42213	100Ω 5% 1/10W	R806	9965 000 42220	22kΩ 5% 1/10W	RP506	9965 000 43953	75Ω 5% 1/16W
R702	9965 000 42213	100Ω 5% 1/10W	R807	9965 000 42225	4.7kΩ 5% 1/10W	RP507	9965 000 43952	47Ω 5% 1/16W
R703	9965 000 42213	100Ω 5% 1/10W	R808	9965 000 42216	1MΩ 5% 1/10W	RP508	9965 000 43951	22Ω 5%
R704	9965 000 42215	100kΩ 5% 1/10W	R809	9965 000 43973	10Ω 1/10W	RP509	9965 000 43952	47Ω 5% 1/16W
R705	9965 000 40053	1KΩ 1/10W 5%	R810	9965 000 42220	22kΩ 5% 1/10W	RP510	9965 000 43951	22Ω 5%
R706	9965 000 42212	0Ω 5% 1/10W	R811	9965 000 43976	10Ω 5% 1/4W	RP511	9965 000 43952	47Ω 5% 1/16W
R707	9965 000 42213	100Ω 5% 1/10W	R812	9965 000 43976	10Ω 5% 1/4W	RP512	9965 000 43952	47Ω 5% 1/16W
R708	9965 000 42213	100Ω 5% 1/10W	R813	9965 000 42671	22Ω 5% 1/4W	RP513	9965 000 43953	75Ω 5% 1/16W
R710	9965 000 42214	10kΩ 5% 1/10W	R814	9965 000 42671	22Ω 5% 1/4W	RP514	9965 000 43952	47Ω 5% 1/16W
R711	9965 000 42214	10kΩ 5% 1/10W	R815	9965 000 42220	22kΩ 5% 1/10W	RP515	9965 000 43952	47Ω 5% 1/16W
R712	9965 000 42213	100Ω 5% 1/10W	R816	9965 000 42214	10kΩ 5% 1/10W	RP516	9965 000 43953	75Ω 5% 1/16W
R713	9965 000 40053	1KΩ 1/10W 5%	R817	9965 000 42213	100Ω 5% 1/10W	RP517	9965 000 43953	75Ω 5% 1/16W
R714	9965 000 43964	4.64kΩ 1% 1/10W	R818	9965 000 42214	10kΩ 5% 1/10W	RP518	9965 000 43953	75Ω 5% 1/16W
R715	9965 000 42225	4.7kΩ 5% 1/10W	R819	9965 000 42214	10kΩ 5% 1/10W	RP519	9965 000 43953	75Ω 5% 1/16W
R716	9965 000 42222	33Ω 5% 1/10W	R820	9965 000 42220	22kΩ 5% 1/10W	RP520	9965 000 43953	75Ω 5% 1/16W
R717	9965 000 42222	33Ω 5% 1/10W	R821	9965 000 42284	0Ω 1/10W	RP521	9965 000 43953	75Ω 5% 1/16W
R718	9965 000 42215	100kΩ 5% 1/10W	R822	9965 000 42284	0Ω 1/10W	RP522	9965 000 43953	75Ω 5% 1/16W
R719	9965 000 42214	10kΩ 5% 1/10W	R824	9965 000 40053	1KΩ 1/10W 5%	RP523	9965 000 43953	75Ω 5% 1/16W
R720	9965 000 42214	10kΩ 5% 1/10W	R825	9965 000 40053	1KΩ 1/10W 5%	RP524	9965 000 43953	75Ω 5% 1/16W
R721	9965 000 42217	22Ω 5% 1/10W	R826	9965 000 42214	10kΩ 5% 1/10W	RP525	9965 000 43953	75Ω 5% 1/16W
R722	9965 000 42217	22Ω 5% 1/10W	R827	9965 000 42214	10kΩ 5% 1/10W	RP526	9965 000 43953	75Ω 5% 1/16W
R723	9965 000 42212	0Ω 5% 1/10W	R850	9965 000 42213	100Ω 5% 1/10W			
R724	9965 000 42212	0Ω 5% 1/10W	R850	9965 000 43490	5.6kΩ 5% 0.1W			
R725	9965 000 42212	0Ω 5% 1/10W	R852	9965 000 40053	1KΩ 1/10W 5%	L100	9965 000 44001	22μH 20%
R726	9965 000 42226	68Ω 5% 1/10W	R852	9965 000 42225	4.7kΩ 5% 1/10W	L100	9965 100 02833	Inductor 22uH 20%
R727	9965 000 42213	100Ω 5% 1/10W	R853	9965 000 42225	4.7kΩ 5% 1/10W	L100	9965 100 03275	22μH 20%
R728	9965 000 42212	0Ω 5% 1/10W	R855	9965 000 43956	2kΩ 5% 1/10W	L101	9965 000 43998	10μH SLF12575T-1
R729	9965 000 42226	68Ω 5% 1/10W	R856	9965 000 42214	10kΩ 5% 1/10W	L101	9965 100 02834	SLF12575T
R730	9965 000 43336	75Ω 5% 1/10W	R857	9965 000 42225	4.7kΩ 5% 1/10W	L102	9965 000 43998	10μH SLF12575T-1
R731	9965 000 42213	100Ω 5% 1/10W	R858	9965 000 42212	0Ω 5% 1/10W	L150	9965 000 44001	22μH 20%
R732	9965 000 42226	68Ω 5% 1/10W	R860	9965 000 42212	0Ω 5% 1/10W	L151	9965 000 44001	22μH 20%
R733	9965 000 43336	75Ω 5% 1/10W	R860	9965 000 42218	220Ω 5% 1/10W	L151	9965 100 02833	Inductor 22uH 20%
R734	9965 000 42213	100Ω 5% 1/10W	R866	9965 000 42225	4.7kΩ 5% 1/10W	L151	9965 100 03275	22μH 20%
R735	9965 000 42212	0Ω 5% 1/10W	R900	9965 000 42213	100Ω 5% 1/10W	L201	9965 000 42718	2.2μH 10% FCI160
R736	9965 000 42226	68Ω 5% 1/10W	R901	9965 000 42220	22kΩ 5% 1/10W	L201	9965 100 02835	2.2uH 10%
R737	9965 000 40053	1KΩ 1/10W 5%	R902	9965 000 42214	10kΩ 5% 1/10W	L201	9965 100 03278	2.2μH 10%
R738	9965 000 42221	27kΩ 5% 1/10W	R903	9965 000 43336	75Ω 5% 1/10W	L202	9965 000 42718	2.2μH 10% FCI160
R739	9965 000 43336	75Ω 5% 1/10W	R904	9965 000 42214	10kΩ 5% 1/10W	L202	9965 100 03278	2.2μH 10%
R740	9965 000 42213	100Ω 5% 1/10W	R905	9965 000 42214	10kΩ 5% 1/10W	L601	9965 000 43818	0.10μH 10%
R741	9965 000 40053	1KΩ 1/10W 5%	R906	9965 000 43336	75Ω 5% 1/10W	L601	9965 100 02836	0.1 uH 10%
R742	9965 000 42221	27kΩ 5% 1/10W	R907	9965 000 43955	1kΩ 1% 1/10W	L601	9965 100 02837	0.1 uH 10%
R743	9965 000 43967	510Ω 5% 1/10W	R908	9965 000 42212	0Ω 5% 1/10W	L601	9965 100 02875	Ind. 0.1 uH 10%
R744	9965 000 43956	2kΩ 5% 1/10W	R909	9965 000 43955	1kΩ 1% 1/10W	L601	9965 100 03279	0.10μH 10%
R745	9965 000 43967	510Ω 5% 1/10W	R910	9965 000 43336	75Ω 5% 1/10W	L601	9965 100 03280	0.10H 10% FCI1608F
R746	9965 000 42214	10kΩ 5% 1/10W	R911	9965 000 43955	1kΩ 1% 1/10W	L602	9965 000 43818	0.10μH 10%
R748	9965 000 43956	2kΩ 5% 1/10W	R912	9965 000 42221	27kΩ 5% 1/10W	L602	9965 100 02875	Ind. 0.1 uH 10%
R749	9965 000 42213	100Ω 5% 1/10W	R913	9965 000 40053	1KΩ 1/10W 5%	L602	9965 100 03279	0.10μH 10%
R750	9965 000 42225	4.7kΩ 5% 1/10W	R914	9965 000 40053	1KΩ 1/10W 5%	L602	9965 100 03280	0.10H 10% FCI1608F
R751	9965 000 42214	10kΩ 5% 1/10W	R915	9965 000 42221	27kΩ 5% 1/10W	L603	9965 000 43818	0.10μH 10%
R753	9965 000 42222	33Ω 5% 1/10W	R916	9965 000 42212	0Ω 5% 1/10W	L603	9965 100 02875	Ind. 0.1 uH 10%
R754	9965 000 42213	100Ω 5% 1/10W	R917	9965 100 02779	4.7kΩ 1% 0.1W	L603	9965 100 03279	0.10μH 10%
R760	9965 000 42214	10kΩ 5% 1/10W	R918	9965 100 02779	4.7kΩ 1% 0.1W	L603	9965 100 03280	0.10H 10% FCI1608F
R761	9965 000 42213	100Ω 5% 1/10W	R919	9965 000 43955	1kΩ 1% 1/10W	L604	9965 000 43818	0.10μH 10%
R762	9965 000 42214	10kΩ 5% 1/10W	R920	9965 000 43955	1kΩ 1% 1/10W	L604	9965 100 02875	Ind. 0.1 uH 10%
R763	9965 000 42214	10kΩ 5% 1/10W	R921	9965 000 43955	1kΩ 1% 1/10W	L604	9965 100 03279	0.10μH 10%
R764	9965 000 42214	10kΩ 5% 1/10W	R922	9965 000 43955	1kΩ 1% 1/10W	L604	9965 100 02875	Ind. 0.1 uH 10%
R765	9965 000 42225	4.7kΩ 5% 1/10W	R923	9965 100 05994	47kΩ 1% 1/10W	L604	9965 100 03279	0.10μH 10%
R766	9965 000 42225	4.7kΩ 5% 1/10W	R924	9965 100 05994	47kΩ 1% 1/10W	L604	9965 100 03280	0.10H 10% FCI1608F
R767	9965 000 42214	10kΩ 5% 1/10W	R925	9965 100 05994	47kΩ 1% 1/10W	L605	9965 000 43818	0.10μH 10%
R768	9965 000 42214	10kΩ 5% 1/10W	R926	9965 100 05994	47kΩ 1% 1/10W	L605	9965 100 02875	Ind. 0.1 uH 10%
R769	9965 000 42214	10kΩ 5% 1/10W	R927	9965 000 42212	0Ω 5% 1/10W	L605	9965 100 03279	0.10μH 10%
R770	9965 000 42214	10kΩ 5% 1/10W	R928	9965 000 42212	0Ω 5% 1/10W	L605	9965 100 03280	0.10H 10% FCI1608F
R771	9965 000 42214	10kΩ 5% 1/10W	R929	9965 000 42212	0Ω 5% 1/10W	L606	9965 000 43818	0.10μH 10%
R772	9965 000 42214	10kΩ 5% 1/10W	R930	9965 000 42212	0Ω 5% 1/10W	L606	9965 100 02875	Ind. 0.1 uH 10%
R773	9965 000 42222	33Ω 5% 1/10W	R931	9965 000 42212	0Ω 5% 1/10W	L606	9965 100 03279	0.10μH 10%
R774	9965 000 42222	33Ω 5% 1/10W	R932	9965 000 44785	3kΩ 1% 0.1W	L606	9965 100 03280	0.10H 10% FCI1608F
R775	9965 000 42222	33Ω 5% 1/10W	R933	9965 000 40053	1KΩ 1/10W 5%</			

L661	9965 100 02875	Ind. 0.1 uH 10%
L661	9965 100 03279	0.10µH 10%
L661	9965 100 03280	0.10H 10% FCI1608F
L662	9965 000 43818	0.10µH 10%
L662	9965 100 02875	Ind. 0.1 uH 10%
L662	9965 100 03279	0.10µH 10%
L662	9965 100 03280	0.10H 10% FCI1608F
L725	9965 000 43818	0.10µH 10%
L725	9965 100 02875	Ind. 0.1 uH 10%
L725	9965 100 03279	0.10µH 10%
L725	9965 100 03280	0.10H 10% FCI1608F
L726	9965 000 43818	0.10µH 10%
L726	9965 100 02875	Ind. 0.1 uH 10%
L726	9965 100 03279	0.10µH 10%
L726	9965 100 03280	0.10H 10% FCI1608F
L801	9965 000 42392	33µH 10% TSL0808
L802	9965 000 42392	33µH 10% TSL0808
L855	9965 000 43999	67Ω/400mADLW21SN67
L855	9965 000 44000	90Ω/400mA ACM2012
L855	9965 100 02838	Choke 670hm/400mA
L855	9965 100 02839	Choke 900hm/400mA
L855	9965 100 03283	ACM2012 90Ω/400mA
L856	9965 000 43999	67Ω/400mADLW21SN67
L856	9965 000 44000	90Ω/400mA ACM2012
L856	9965 100 03283	ACM2012 90Ω/400mA
L857	9965 000 43999	67Ω/400mADLW21SN67
L857	9965 000 44000	90Ω/400mA ACM2012
L857	9965 100 03283	ACM2012 90Ω/400mA
L858	9965 000 43999	67Ω/400mADLW21SN67
L858	9965 000 44000	90Ω/400mA ACM2012
L858	9965 100 03283	ACM2012 90Ω/400mA
L859	9965 000 43999	67Ω/400mADLW21SN67
L859	9965 000 44000	90Ω/400mA ACM2012
L859	9965 100 03283	ACM2012 90Ω/400mA
L900	9965 000 43818	0.10µH 10%
L900	9965 100 02875	Ind. 0.1 uH 10%
L901	9965 000 43818	0.10µH 10%
L901	9965 100 02875	Ind. 0.1 uH 10%
L902	9965 000 43818	0.10µH 10%
L902	9965 100 02875	Ind. 0.1 uH 10%



D101	9965 000 44010	BAS316
D101	9965 100 02823	BAS316
D101	9965 100 03400	BAS316
D102	9965 000 44010	BAS316
D102	9965 100 03400	BAS316
D103	9965 000 44005	PDZ18B
D103	9965 000 44009	BZX384-C18
D103	9965 100 02824	BZX384-C18
D103	9965 100 02825	PDZ18B
D103	9965 100 03268	BZX384-C18
D104	9965 000 44004	BZX384-C5V6
D104	9965 100 02826	BZX384-C5V6 SOD-323
D104	9965 100 02827	PDZ5.6B
D104	9965 100 03271	PDZ5.6B
D150	9965 100 02828	SB240
D151	9965 000 44003	BAV103
D151	9965 100 02829	BAV103
D151	9965 100 02830	BAV103
D151	9965 100 03272	BAV103
D151	9965 100 03273	BAV103
D350	9965 000 37405	BAS32L
D350	9965 100 02831	LL4148 GS08
D350	9965 100 03321	LL4148-GS08
D350	9965 100 03327	BAS32L
D351	9965 100 02831	LL4148 GS08
D351	9965 100 03321	LL4148-GS08
D351	9965 100 03327	BAS32L
D352	9965 100 02831	LL4148 GS08
D352	9965 100 03321	LL4148-GS08
D352	9965 100 03327	BAS32L
D401	9965 100 02831	LL4148 GS08
D401	9965 100 03321	LL4148-GS08
D401	9965 100 03327	BAS32L
D700	9965 000 44010	BAS316
D700	9965 100 03400	BAS316
D701	9965 000 44010	BAS316
D701	9965 100 03400	BAS316
D702	9965 100 02831	LL4148 GS08
D702	9965 100 03321	LL4148-GS08
D702	9965 100 03327	BAS32L
D703	9965 100 02831	LL4148 GS08
D703	9965 100 03321	LL4148-GS08
D703	9965 100 03327	BAS32L
D704	9965 100 02831	LL4148 GS08
D704	9965 100 03321	LL4148-GS08
D704	9965 100 03327	BAS32L
D705	9965 100 02831	LL4148 GS08
D705	9965 100 03321	LL4148-GS08
D705	9965 100 03327	BAS32L
D725	9965 100 02831	LL4148 GS08

D725	9965 100 03321	LL4148-GS08
D725	9965 100 03327	BAS32L
D726	9965 100 02831	LL4148 GS08
D726	9965 100 03321	LL4148-GS08
D726	9965 100 03327	BAS32L
D760	9965 000 44015	SM240A DO-214AC
D760	9965 100 02832	SM240A DO-214AC
D800	9965 100 02831	LL4148 GS08
D800	9965 100 03321	LL4148-GS08
D800	9965 100 03327	BAS32L
D801	9965 100 02831	LL4148 GS08
D801	9965 100 03321	LL4148-GS08
D801	9965 100 03327	BAS32L



Q10	9965 000 45107	2N7002E-T1-E3 (60V)
Q100	9965 000 37398	SI5441DC
Q101	9965 100 02840	SI4936ADY SO-8
Q102	9965 100 02840	SI4936ADY SO-8
Q103	9965 000 42648	BC847C
Q103	9965 000 42649	BC847C
Q103	9965 100 02430	BC847C SOT-323
Q103	9965 100 02841	BC847C
Q103	9965 100 03458	BC847C
Q104	9965 100 02842	BC817-25
Q104	9965 100 03287	BC817-25 500mA/45V
Q105	9965 000 42648	BC847C
Q105	9965 000 42649	BC847C
Q105	9965 100 03458	BC847C
Q106	9965 000 42648	BC847C
Q106	9965 000 42649	BC847C
Q106	9965 100 03458	BC847C
Q107	9965 100 02843	PHD38N02LT
Q107	9965 100 02844	PHD36N03LT
Q108	9965 000 37397	MUN2211J
Q108	9965 000 42211	PDTC114EK SC-59
Q109	9965 100 02845	SI3441BDV
Q11	9965 000 45107	2N7002E-T1-E3 (60V)
Q110	9965 000 42648	BC847C
Q110	9965 000 42649	BC847C
Q110	9965 100 03458	BC847C
Q111	9965 000 42211	PDTC114EK SC-59
Q111	9965 100 02846	MUN2211TIG
Q12	9965 000 44111	PMBS3904
Q13	9965 000 44111	PMBS3904
Q14	9965 000 45107	2N7002E-T1-E3 (60V)
Q15	9965 000 45107	2N7002E-T1-E3 (60V)
Q150	9965 000 37398	SI5441DC
Q151	9965 000 42648	BC847C
Q151	9965 000 42649	BC847C
Q151	9965 100 03458	BC847C
Q152	9965 000 37397	MUN2211J
Q153	9965 000 37397	MUN2211J
Q153	9965 000 42211	PDTC114EK SC-59
Q154	9965 000 37397	MUN2211J
Q154	9965 000 42211	PDTC114EK SC-59
Q16	9965 000 45107	2N7002E-T1-E3 (60V)
Q17	9965 000 45107	2N7002E-T1-E3 (60V)
Q2	9965 000 44111	PMBS3904
Q20	9965 000 45107	2N7002E-T1-E3 (60V)
Q201	9965 000 36033	RK7002
Q201	9965 000 42651	2N7002
Q201	9965 100 02428	RK7002
Q201	9965 100 03293	RK7002
Q202	9965 000 36033	RK7002
Q202	9965 000 42651	2N7002
Q202	9965 100 03293	RK7002
Q21	9965 000 45105	AF9435PSLA (30V/5.7A)
Q21	9965 000 45106	SI9435BDY-T1-E3(30V)
Q22	9965 000 44111	PMBS3904
Q24	9965 000 45105	AF9435PSLA (30V/5.7A)
Q24	9965 000 45106	SI9435BDY-T1-E3(30V)
Q25	9965 000 44111	PMBS3904
Q26	9965 000 44111	PMBS3904
Q28	9965 000 44111	PMBS3904
Q3	9965 000 44111	PMBS3904
Q30	9965 000 44111	PMBS3904
Q351	9965 000 40045	MMBT3904
Q351	9965 100 02847	MMBT3904 200mA/40V
Q351	9965 100 03497	MMBT3904
Q353	9965 000 40045	MMBT3904
Q353	9965 100 03497	MMBT3904
Q601	9965 000 45107	2N7002E-T1-E3 (60V)
Q602	9965 000 45107	2N7002E-T1-E3 (60V)
Q603	9965 000 45107	2N7002E-T1-E3 (60V)
Q604	9965 000 45107	2N7002E-T1-E3 (60V)
Q605	9965 000 45107	2N7002E-T1-E3 (60V)
Q612	9965 000 44111	PMBS3904
Q613	9965 000 45107	2N7002E-T1-E3 (60V)
Q7	9965 000 44111	PMBS3904
Q700	9965 000 42648	BC847C
Q700	9965 000 42649	BC847C

Q700	9965 100 03458	BC847C
Q701	9965 000 42648	BC847C
Q701	9965 000 42649	BC847C
Q701	9965 100 03458	BC847C
Q704	9965 100 02845	SI3441BDV
Q761	9965 000 43944	BC847BW 100mA/45V
Q761	9965 100 02848	BC847BW 100mA/45V
Q761	9965 100 03294	BC847BW 100mA/45V
Q762	9965 000 43944	BC847BW 100mA/45V
Q762	9965 100 03294	BC847BW 100mA/45V
Q8	9965 000 44111	PMBS3904
Q801	9965 100 02849	BC857BW
Q801	9965 100 03295	BC857BW 100mA/50V
Q802	9965 000 43944	BC847BW 100mA/45V
Q802	9965 100 03294	BC847BW 100mA/45V
Q850	9965 000 40045	MMBT3904
Q850	9965 100 03497	MMBT3904
Q851	9965 000 40045	MMBT3904
Q851	9965 100 03497	MMBT3904
Q9	9965 000 44111	PMBS3904
Q900	9965 000 42648	BC847C
Q900	9965 000 42649	BC847C
Q901	9965 100 02845	SI3441BDV
U1	9965 000 45083	CAS-220/C
U10	9965 000 45101	NC7WZ14P6X
U100	9965 000 43937	TPS5430DDAR
U100	9965 000 44828	TPS5420DRG4
U100	9965 100 02850	TPS5430DDAR
U100	9965 100 03298	
U101	9965 000 43942	NCP5422AD
U101	9965 100 02851	NCP5422AD
U102	9965 000 43929	TS431AIL
U102	9965 100 02852	TS431AIL
U11	9965 000 44123	24LC02BT
U12	9965 000 45089	ZR39661BGCG
U13	9965 000 45097	SN74CBT3257CPWR
U15	9965 000 45096	NC7SB3157P6X
U150	9965 000 42209	AME1117CCGTZ
U150	9965 000 42624	LD1117S33 SOT-223
U150	9965 000 42747	LD1117S33 SOT-223
U151	9965 000 42209	AME1117CCGTZ
U151	9965 000 43930	LD1117D33TR
U151	9965 100 02853	LD1117D33TR
U152	9965 000 42209	AME1117CCGTZ
U152	9965 000 42624	LD1117S33 SOT-223
U152	9965 000 42747	LD1117S33 SOT-223
U153	9965 000 43935	AP1117ELA-ADJ
U153	9965 100 02854	LD1117S-TR
U153	9965 100 02855	AP1117ELA-ADJ
U154	9965 000 43935	AP1117ELA-ADJ
U154	9965 100 02854	LD1117S-TR
U154	9965 100 02855	AP1117ELA-ADJ
U155	9965 000 43937	TPS5430DDAR
U156	9965 000 43935	AP1117ELA-ADJ
U156	9965 000 43937	TPS5430DDAR
U156	9965 000 44828	TPS5420DRG4
U156	9965 100 02850	TPS5430DDAR
U156	9965 100 02855	AP1117ELA-ADJ
U156	9965 100 03298	AP1117E
U16	9965 000 45093	AP1117E33LA
U16	9965 000 45103	AT1117
U17	9965 000 45097	SN74CBT3257CPWR
U18	9965 000 45088	MST9883C-LF-140
U19	9965 000 45097	SN74CBT3257CPWR
U2	9965 000 45091	AIC1084PE
U2	9965 000 45092	AP1084DLA
U2	9965 000 45102	AT1084
U20	9965 000 45108	S29AL032D90TF1030
U20	9965 100 05643	MX29LV320CTTC
U21	9965 000 45100	74LVC1G126GW
U23	9965 000 45087	V58C2256164SCI6
U23	9965 100 05642	M13S2561616A
U24	9965 000 45087	V58C2256164SCI6
U24	9965 100 05642	M13S2561616A
U25	9965 000 45094	DS1233AZ-10
U250	9965 000 43932	MT5112BD
U250	9965 100 02856	MT5112BD
U26	9965 000 45093	AP1117E33LA
U26	9965 000 45103	AT1117
U27	9965 000 44123	24LC02BT
U28	9965 000 45099	WT6701F_S20
U29		

U353	9965 000 44284	M24C32-WMN6TP	R0202	9965 000 42218	220Ω 5% 1/10W
U37	9965 000 45091	AIC1084PE	R0203	9965 000 42225	4.7kΩ 5% 1/10W
U37	9965 000 45092	AP1084DLA	R0204	9965 000 42214	10kΩ 5% 1/10W
U37	9965 000 45102	AT1084	R0205	9965 000 42225	4.7kΩ 5% 1/10W
U38	9965 000 45091	AIC1084PE	R0206	9965 000 42225	4.7kΩ 5% 1/10W
U38	9965 000 45092	AP1084DLA	R040	9965 000 43336	75Ω 5% 1/10W
U38	9965 000 45102	AT1084	R041	9965 000 40053	1KΩ 1/10W 5%
U4	9965 000 45091	AIC1084PE	R042	9965 000 42221	27kΩ 5% 1/10W
U4	9965 000 45092	AP1084DLA	R043	9965 000 40053	1KΩ 1/10W 5%
U4	9965 000 45102	AT1084	R044	9965 000 42221	27kΩ 5% 1/10W
U41	9965 000 45101	NC7WZ14P6X	R045	9965 000 43336	75Ω 5% 1/10W
U42	9965 000 45100	74LVC1G126GW	R046	9965 000 43336	75Ω 5% 1/10W
U501	9965 000 43940	HY5DU561622ETP-5	R047	9965 000 42212	0Ω 5% 1/10W
U501	9965 100 02859	HY5DU561622ETP-5	R048	9965 000 42212	0Ω 5% 1/10W
U501	9965 100 03307	HY5DU561622ETP-5			
U502	9965 000 43940	HY5DU561622ETP-5			
U502	9965 100 02859	HY5DU561622ETP-5			
U502	9965 100 03307	HY5DU561622ETP-5			
U503	9965 000 43934	LP2996MRX			
U503	9965 100 02860	LP2996MRX			
U6	9965 100 05641	CAT6341			
U601	9965 000 45095	MP1410ES-C019-LF-Z			
U603	9965 000 45091	AIC1084PE			
U603	9965 000 45092	AP1084DLA			
U603	9965 000 45102	AT1084			
U604	9965 000 44123	24LC02BT			
U7	9965 000 45091	AIC1084PE			
U7	9965 000 45092	AP1084DLA			
U7	9965 000 45102	AT1084			
U700	9965 000 44049	TMDS 341APFCRG4			
U700	9965 100 02861	TMDS341APFCRG4			
U701	9965 000 35965	M24C02-WMN6TP			
U701	9965 000 42647	AT24C02BN-10SU-1.8			
U701	9965 000 43941	M24C02-WMN6TP			
U701	9965 100 08599	AT24C02BN			
U702	9965 000 35965	M24C02-WMN6TP			
U702	9965 000 42647	AT24C02BN-10SU-1.8			
U702	9965 000 43941	M24C02-WMN6TP			
U702	9965 100 08599	AT24C02BN			
U703	9965 000 43938	TS5A3157DCKRE4			
U703	9965 100 02862	TS5A3157DCKRE4			
U703	9965 100 02863	NLASB3157DFT2G			
U725	9965 000 35965	M24C02-WMN6TP			
U725	9965 000 42647	AT24C02BN-10SU-1.8			
U725	9965 000 43941	M24C02-WMN6TP			
U725	9965 100 08599	AT24C02BN			
U760	9965 000 43936	WM8776SEFT/R			
U760	9965 100 02864	WM8776SEFT/R			
U801	9965 000 44600	TDA8932T			
U801	9965 100 02865	TDA8932T			
U801	9965 100 03313	TDA8932T			
U9	9965 000 45101	NC7WZ14P6X			
U900	9965 000 43938	TS5A3157DCKRE4			
U900	9965 100 02862	TS5A3157DCKRE4			
U900	9965 100 02863	NLASB3157DFT2G			
U901	9965 000 42637	74HC4052D PHILIPS			
U901	9965 100 02866	74HC4052D			
U902	9965 000 44786	AD8188ARU			
U902	9965 100 02867	AD8188ARU			
U903	9965 000 43935	AP1117ELA-ADJ			
U903	9965 100 02854	LD1117S-TR			
U903	9965 100 02855	AP1117ELA-ADJ			

**Side AV Panel [SA]****Various**

SW0201 9965 100 02882 Tact Switch

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C0201	9965 000 43985	1μF 20% 16V
C040	9965 000 42690	47pF 50V NPO 5% 0603
C041	9965 000 42231	330pF 50V NPO 0603
C042	9965 000 42231	330pF 50V NPO 0603
C043	9965 000 42231	330pF 50V NPO 0603
C044	9965 000 42231	330pF 50V NPO 0603
C045	9965 000 42690	47pF 50V NPO 5% 0603
C046	9965 000 42690	47pF 50V NPO 5% 0603
C049	9965 000 42722	6n8 50V X7R 0603
C050	9965 000 42722	6n8 50V X7R 0603
CN041	9965 000 43811	RCA Jack 1*3 Y/W/R
CN041	9965 000 43812	RCA Jack 1*3 Y/Wh/Rd
CN042	9965 000 43813	Mini Jack 4p Bk
CN042	9965 000 43814	Mini Jack 4p
CN043	9965 000 43816	Phone Jack 3.5mm 7p Bk
CN043	9965 100 03712	Phone JACK 3.5mm bl

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R0201 9965 000 42662 330Ω 5% 1/10W

# 11. Revision List

**Manual xxxx xxx xxxx.0**

- First release.

**Manual xxxx xxx xxxx.4**

- 26MD357B/37 added.
- 26MF337B/27 added.
- 32MD357B/37 added.
- 32MF337B/27 added.
- 37MF337B/37 added.
- 37PFL5332D/37 added.
- 42MF337B/37 added.

**Manual xxxx xxx xxxx.5**

- **Chapter 10:** Spare parts list added.