

# JC186VA13U Service Manual

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# *JC186VA13U Service Manual*

## **1. PRECAUTION AND NOTICES**

### **1.1. SAFETY PRECAUTIONS**

This monitor is manufactured and tested on a ground principle that a user's safety comes first. However, improper use or installation may cause damage to the monitor as well as to the user. Carefully go over the following WARNINGS before installing and keep this guide handy.

#### **WARNINGS:**

- ◆ This monitor should be operated only at the correct power sources indicated on the label on the rear end of the monitor. If you're unsure of the power supply in your residence, consult your local dealer or power company.
- ◆ Use only the special power adapter that comes with this monitor for power input.
- ◆ Do not try to repair the monitor yourself as it contains no user-serviceable parts. This monitor should only be repaired by a qualified technician.
- ◆ Do not remove the monitor cabinet. There is high-voltage parts inside that may cause electric shock to human bodies, even when the power cord is unplugged.
- ◆ Stop using the monitor if the cabinet is damaged. Have it checked by a service technician.
- ◆ Put your monitor only in a clean, dry environment. If it gets wet, unplug the power cable immediately and consult your service technician.
- ◆ Always unplug the monitor before cleaning it. Clean the cabinet with a clean, dry cloth. Apply non-ammonia based cleaner onto the cloth, not directly onto the glass screen.
- ◆ Keep the monitor away from magnetic objects, motors, TV sets, and transformer.
- ◆ Do not place heavy objects on the monitor or power cord.

### **1.2. PRODUCT SAFETY NOTICE**

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltages, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, or other hazards.

### **1.3. SERVICE NOTES**

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor (more than 1W of metal oxide film resistor) in circuit board, keep the resistor about 5mm away from circuit board.
3. Keep wires away from high voltage, high temperature components and sharp edges.
4. Keep wires in their original position so as to reduce interference.
5. Usage of this product please refer to also user's manual.

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## 2. SERVICE TOOL & EQUIPMENT REQUIRED

1. SIGNAL GEN.
2. MULTIMETER
3. OSCILLOSCOPE
4. SCREW DRIVER
5. IRON
6. ABSORBER
7. SOLDER
8. DUMMY LOAD (5 /200W)

## 3. SPECIFICATIONS

### 3.1. PRODUCT SPECIFICATIONS

LCD Panel	18.1" TFT
Power Management	Energy Star compliant VESA DPMS compatible < 5W
Displayable Resolution	XGA 1024×768 max.
Pixel Dimension	0.3585×0.3585mm
LCD Display Color	16.7M Color Max. (8bit)
Viewing Angle	CR 10 Horizontal: -80° +80° Vertical: -60° +50°
Tilt	+90° , -1°
Contrast Ratio	350 : 1 (typical)
Brightness	450 cd/m <sup>2</sup> (typical)
Response Time	Tr: 10 ms Tf: 15ms (typical)
Active Display Area	368mm×276mm
RF Tuner	Input level: 0 ~ +15 dB mV Rang: NTSC 55.25 to 801.25 MHz, 2-69 channels for Off-Air and 2-125 Channeis for CATV
Power	Voltage: 100~240 V Consumption: 60 Watts
Speaker	3W×2

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## 3.2. FACTORY PRESET MODE TIMING CHART

ITEM	1	2	3	4
TIMING	640×480 60HZ	640×480 67HZ	640×480 75HZ	720×400 70HZ
Pixel Rate	25.175MHZ	30.240MHZ	31.500MHZ	28.322MHZ
H TOTAL	31.778us	28.571us	26.667us	31.778us
H DISPLAY	25.422us	21.164us	20.317us	25.422us
H B-Porch	1.907us	3.175us	3.810us	1.907us
H Width	3.813us	2.116us	2.032us	3.813us
H Border	0.318us	0.000us	0.000us	0.318us
V TOTAL	16.683ms	15.000ms	13.334ms	14.268ms
V DISPLAY	15.253ms	13.714ms	12.800ms	12.710ms
V B-Porch	1.049ms	1.114ms	0.427ms	1.111ms
Vs Width	0.064ms	0.086ms	0.080ms	0.064ms
V Border	0.254ms	0.000ms	0.000ms	0.254ms
H/V Sync	-/-	-/-	-/-	-/+
Interlace	No.	No.	No.	No.

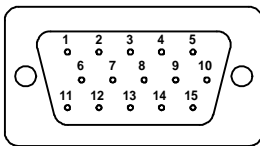
ITEM	5	6	7	8
TIMING	800×600 56HZ	800×600 60HZ	800×600 72HZ	800×600 75HZ
Pixel Rate	36.000MHZ	40.000MHZ	50.000MHZ	49.500MHZ
H TOTAL	28.444us	26.400us	20.800us	21.333us
H DISPLAY	22.222us	20.000us	16.000us	16.162us
H B-Porch	3.556us	2.200us	1.280us	3.232us
H Width	2.000us	3.200us	2.400us	1.616us
H Border	0.000us	0.000us	0.000us	0.000us
V TOTAL	17.778ms	16.579ms	13.853ms	13.333ms
V DISPLAY	17.066ms	15.840ms	12.480ms	12.800ms
V B-Porch	0.626ms	0.607ms	0.478ms	0.448ms
Vs Width	0.057ms	0.106ms	0.125ms	0.064ms
V Border	0.000ms	0.000ms	0.000ms	0.000ms
H/V Sync	+/+	+/+	+/+	+/+
Interlace	No.	No.	No.	No.

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ITEM	9	10	11	12
TIMING	832×624 74.5HZ	1024×768 60HZ	1024×768 70HZ	1024×768 75HZ
Pixel Rate	57.280MHZ	65.000MHZ	75.000MHZ	78.750MHZ
H TOTAL	20.111us	20.677us	17.707us	16.660us
H DISPLAY	14.525us	15.754us	13.653us	13.003us
H B-Porch	3.910us	2.462us	1.920us	2.235us
H Width	1.117us	2.092us	1.813us	1.219us
H Border	0.000us	0.000us	0.000us	0.000us
V TOTAL	13.417ms	16.666ms	14.272ms	13.328ms
V DISPLAY	12.549ms	15.880ms	13.599ms	12.795ms
V B-Porch	0.784ms	0.600ms	0.513ms	0.466ms
Vs Width	0.060ms	0.124ms	0.106ms	0.050ms
V Border	0.00ms	0.000ms	0.000ms	0.000ms
H/V Sync	-/-	-/-	-/-	+/+
Interlace	No.	No.	No.	No.

### 3.3. D-SUB CONNECTOR

#### D-SUB 15 PIN CONNECTOR



<b>1.R</b>	<b>6.R_GND</b>	<b>11.NC</b>
<b>2.G</b>	<b>7.G_GND</b>	<b>12.SDA</b>
<b>3.B</b>	<b>8.B_GND</b>	<b>13.H.SYNC</b>
<b>4.NC</b>	<b>9. +5V</b>	<b>14.V.SYNC</b>
<b>5.GND</b>	<b>10.GND</b>	<b>15.SCL</b>

#### SIGNAL LEVEL

CONNECTOR	SIGNAL	DESCRIPTION
R	RED	0.7vp-p(VIDEO)
G	GREEN	0.7vp-p(VIDEO)
B	BLUE	0.7vp-p(VIDEO)
H	H/SYNC	TTL positive or negative
V	V/SYNC	TTL positive or negative
SDA	DDC1/2B	TTL
SCL	DDC1/2B	TTL

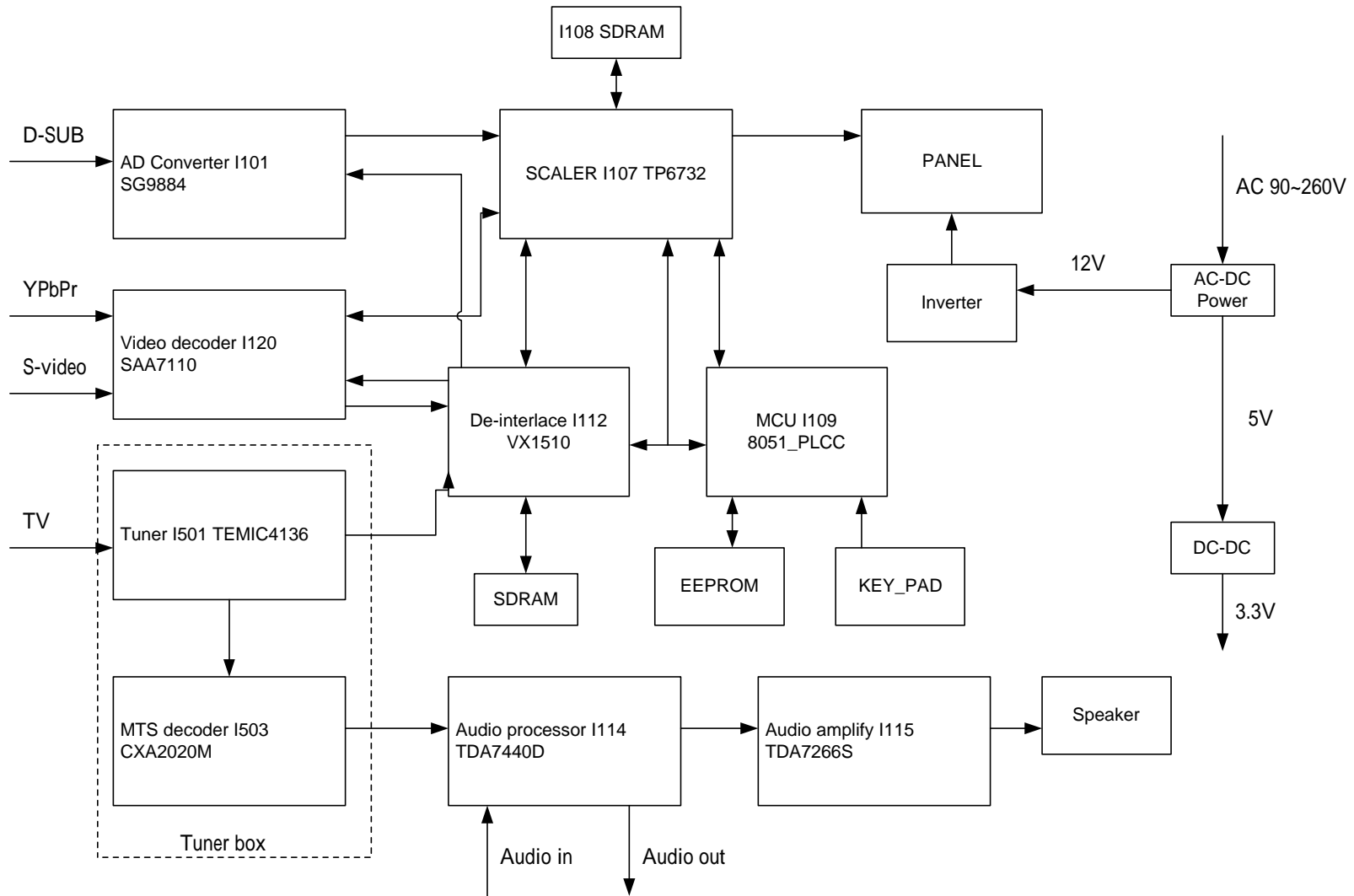


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## 4.2. EXPLODED VIEW PARTS LIST

Ref. No.	Source	Part No.	DESCRIPTION	SPECIFICATION	Q' TY	REMARK
1F01		2603307494	BEZEL ASSY	186VA GATEWAY ABS94V0 P-8002C	1	
1F07		2084730082	SCREW,BND T+	M3X8(BND T+)	5	
1F10		2071962600	METAL FITTG	JC186H SECC 1.0t CPT PANEL	1	
1F11		2085740162	SCREW,B OTW+	4x16(+) SWRM-3 ZMC2-C	4	
1F15		2061452600	BUSHING	JC186H RUBBER 08.3X03.2X6.5MM	4	
1F20		2080003100	SCREW,SPE	JC186H PTS/W 3*10+8	2	
1F21		2071665700	SHIELD PLATE	JC186H SPTE 0.3t POWER BOARD	1	
1F22		2080003100	SCREW,SPE	JC186H PTS/W 3*10+8	2	
1F31		2085730062	SCREW,B OTW+	3X6(+) SWRM-3 ZMC2-C	4	
1F32		2085740082	SCREW,B OTW+	SCREW B OTW+ M4X8	1	
1F40		2071861500	BRACKET,FIX	JC186H12U SECC0.8t SIGNAL JACK	1	
1F41		2082730062	SCREW,BND+	M3X6(BND+)	2	
1F42		2082730062	SCREW,BND+	M3X6(BND+)	7	
1F50		2082730062	SCREW,BND+	M3X6(BND+)	4	
1F52		2071663700	SHIELD PLATE	JC186H SPTE 0.3t MAIN BOARD	1	
1F54		2082730062	SCREW,BND+	M3X6(BND+)	2	
1F55		2071861400	BRACKET,FIX	JC186H SECC 0.8t TONER SUPPORT	1	
1F56		2080002900	SCREW,SPE	JC186H TUNER SUPPORT M3 SCREW	1	
1F60		2082730062	SCREW,BND+	M3X6(BND+)	3	
1F70		2084740102	SCREW,BND T+	M4X10(BND T+)	6	
1F81		2087340106	SCREW,B SPW+	4X10(+)SWRM-3 ZMC2-C	2	
1F83		2087340106	SCREW,B SPW+	4X10(+)SWRM-3 ZMC2-C	2	
1F89		2072260100	HEAT SINK	JC186H12J AL SHEET t=2.0	1	
2C01		2603407553	CABI BACK ASSY	JC186H ABS94V0 SPRAY 2082708	1	
2C05		20826252706	CASE	186H12UT ABS94V0 SPRAY 2082708	1	
2C06		2085740082	SCREW,B OTW+	SCREW B OTW+ M4X8	2	
2C07		2084740102	SCREW,BND T+	M4X10(BND T+)	6	
2C08		2082730062	SCREW,BND+	M3X6(BND+)	2	
2C09		2085740082	SCREW,B OTW+	SCREW B OTW+ M4X8	1	
5B01		2028256002	STAND	JC186HA ROTATE ABS94HB/2082708	1	
5B02		2071965600	METAL FITTG	JC186H SECC 1.5t ROTATE STAND	1	
5B03		2085740126	SCREW,B OTW+	M4X12 (B OTW+) WITH NYLON	4	
5B04		2082330082	SCREW,CSK+	M3X8(CSK+)	2	
5B06		2084730102	SCREW,BND T+	M3X10(BND T+)	6	
5B07		2071962301	METAL FITTG	JC186H/JC166H SECC 1.5t (TV)	1	
5B08		2028551507	NECK	JC166H F ABS 94V-0/2082708	1	
5B09		2028551607	NECK	JC166H REAR ABS 94V-0/2082708	1	
5B10		2106654900	HINGE	JC186H R:45 L:45	1	
5B11		2081430082	SCREW,(WASH)	M3X8 P=0.5(TOOTH,WASHER)	4	
5B12		2084740082	SCREW,BND T+	M4X8(BND T+)	4	
5B13		2039802601	FOOT PAD	JC186H620X1.6mm Rubber blac	3	
5B14		2087340106	SCREW,B SPW+	4X10(+)SWRM-3 ZMC2-C	4	
5B15		2071965200	METAL FITTG	JC186H SECC 1.5t MONITOR-DOWN	1	
5B16		2084730082	SCREW,BND T+	M3X8(BND T+)	2	
5B17		2084740102	SCREW,BND T+	M4X10(BND T+)	1	
5B18		2027256802	DUST COVER	JC166H STAND ABS 94HB/2082708	1	
5B19		2087340086	SCREW,B SPW+	M4X8 B SPW+ 63.96 NYLON	1	
5B20		2085740106	SCREW,B OTW+	M4*10 (B OTW+) WITH NYLOK	2	
5B21		2106654200	HINGE	JC186H HINGE -5'~20'	1	
9S05		2082330062	SCREW,CSK+	M3X6(CSK+)	2	

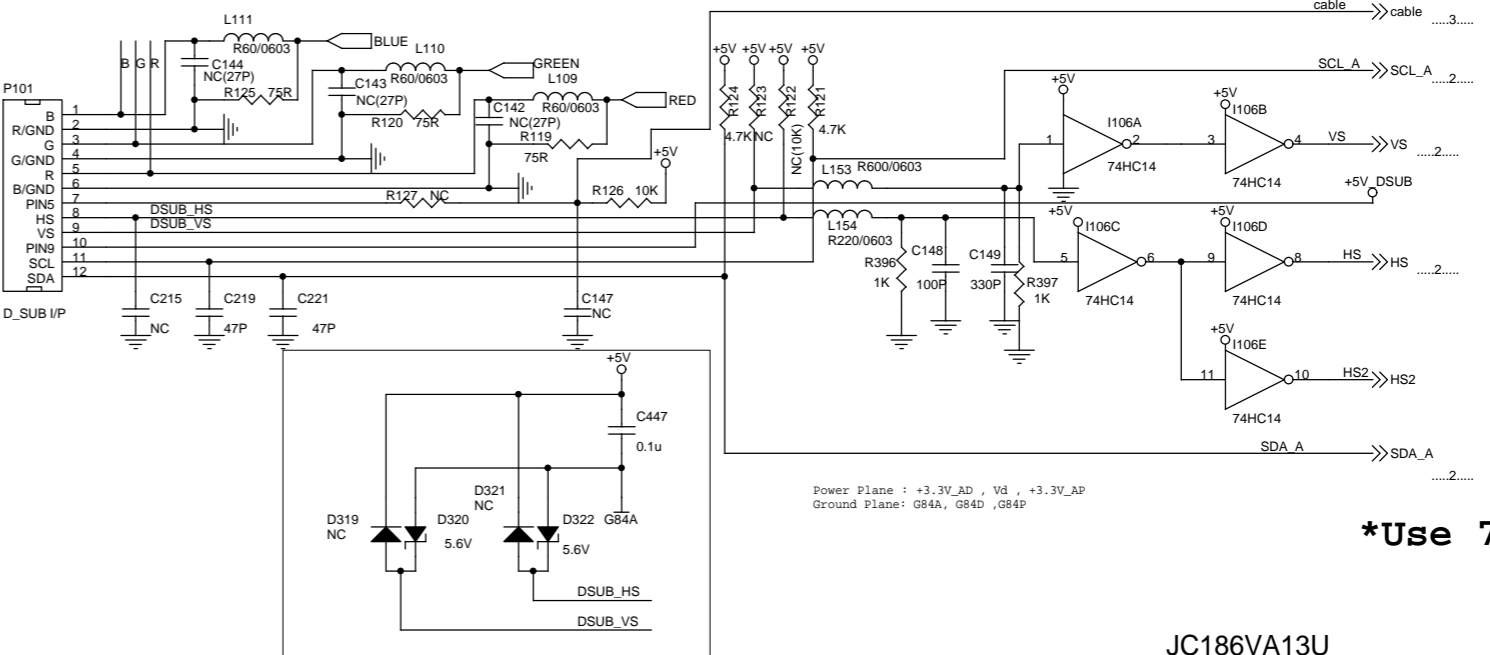
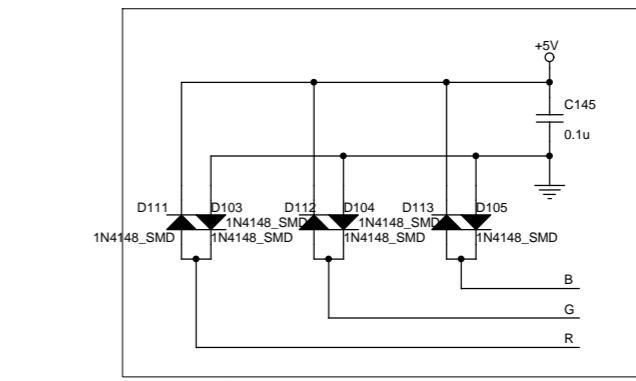
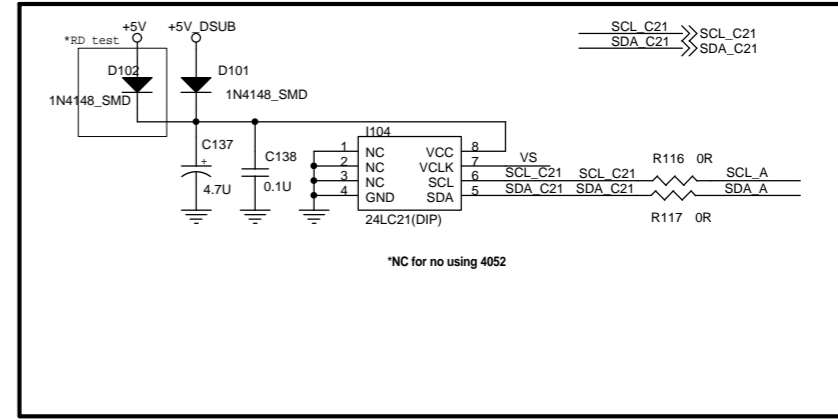
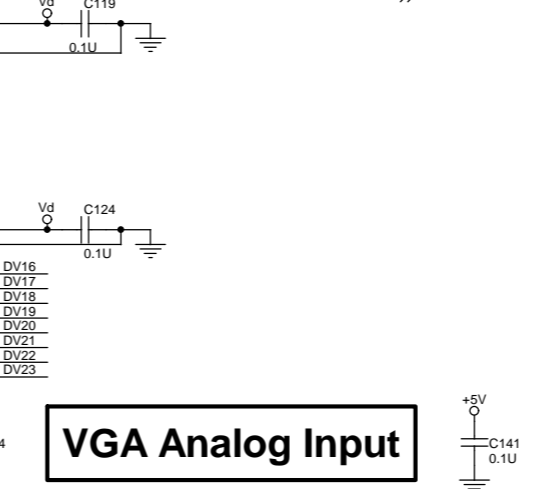
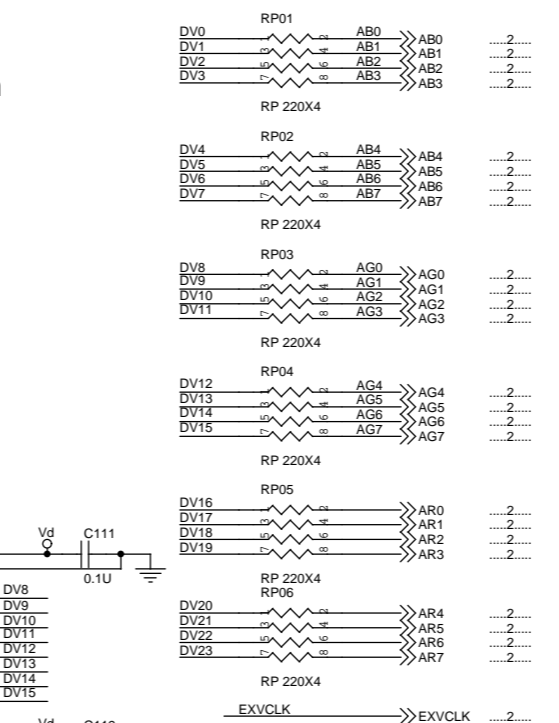
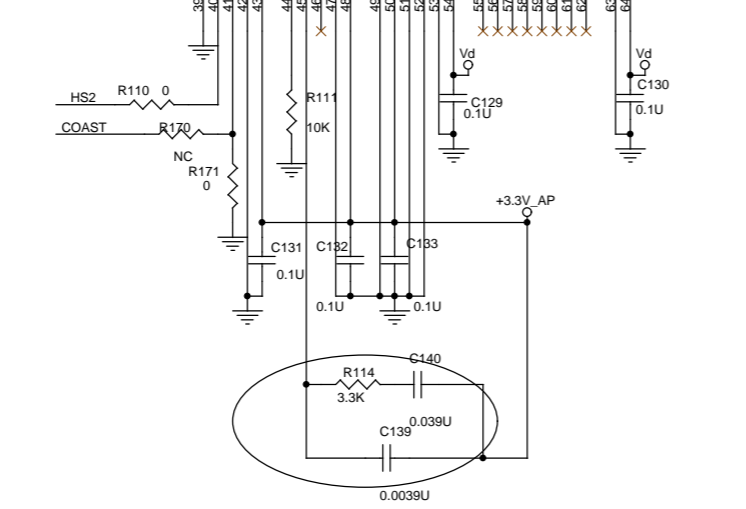
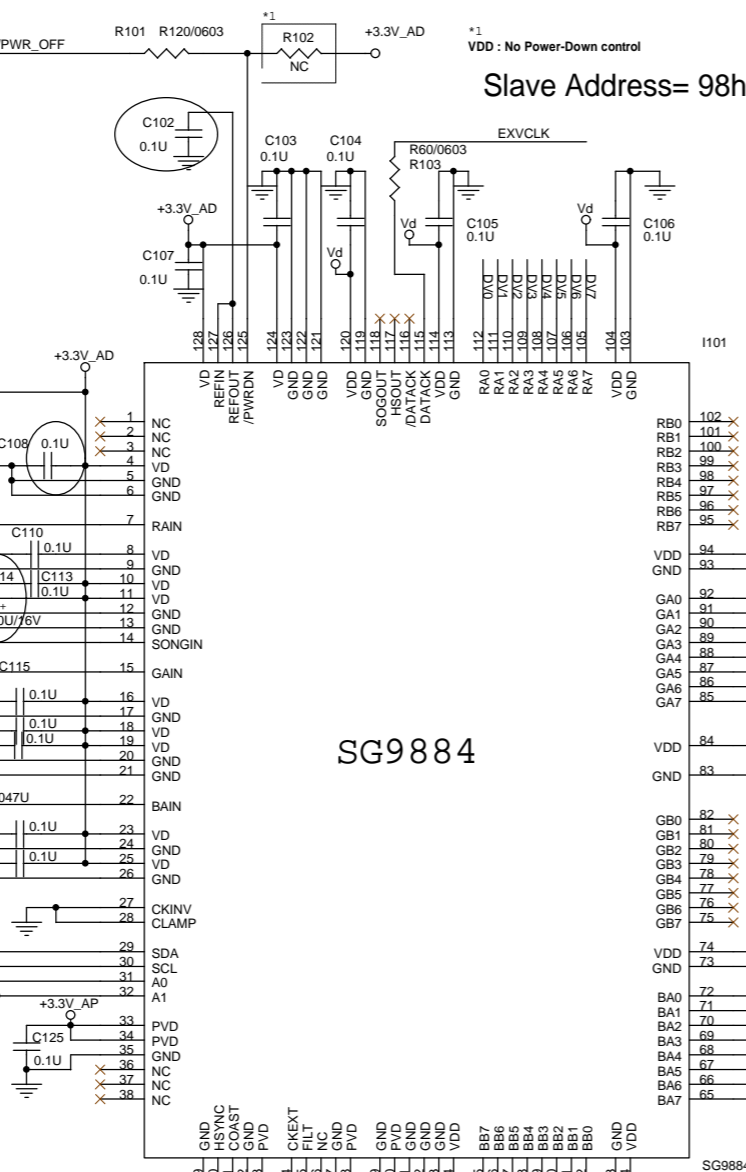
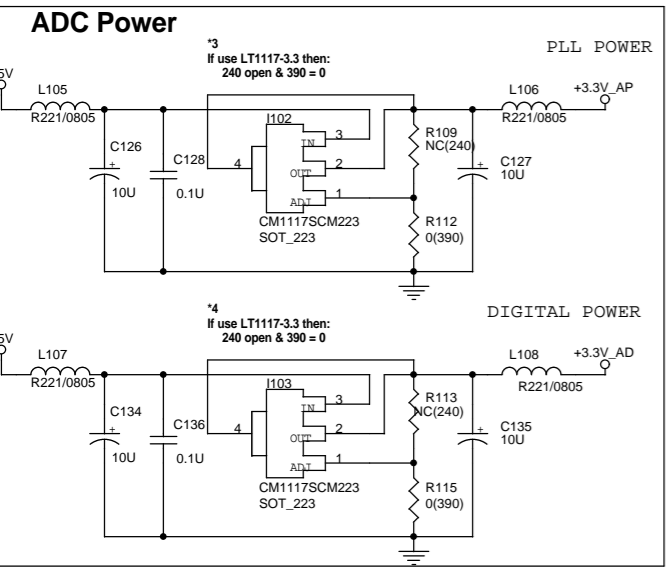
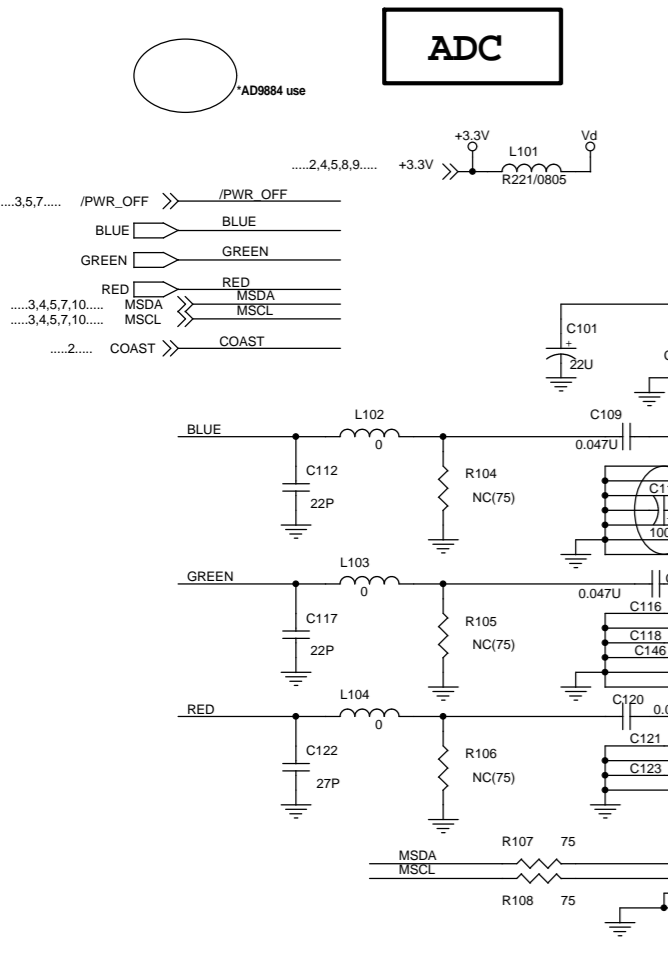
5. BLOCK DIAGRAM





# 6. SCHEMATIC DIAGRAM

## 6.1. ADC



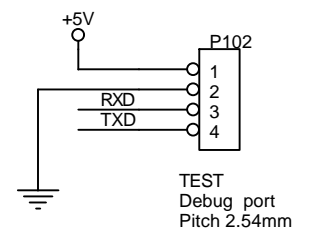
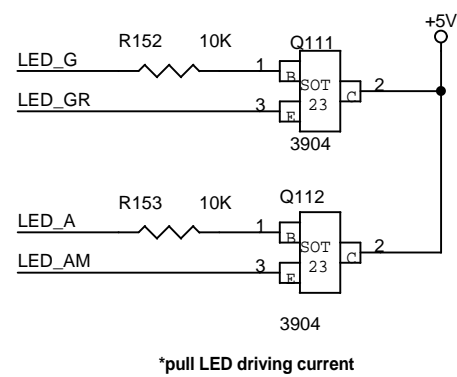
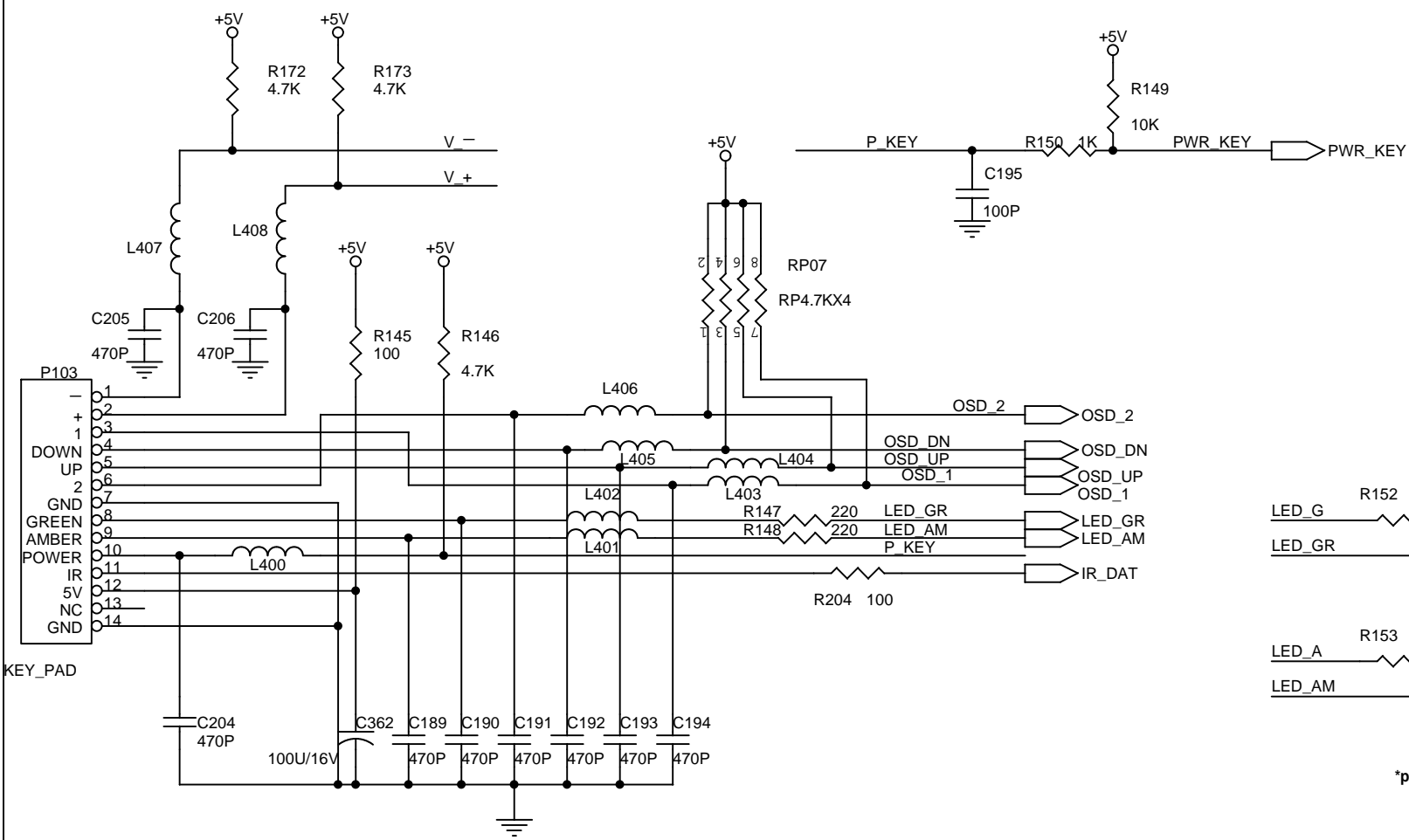
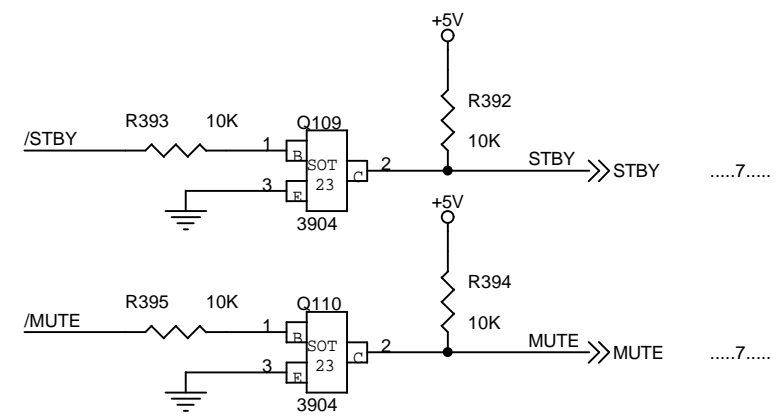
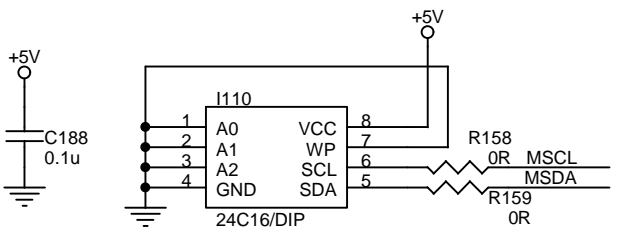
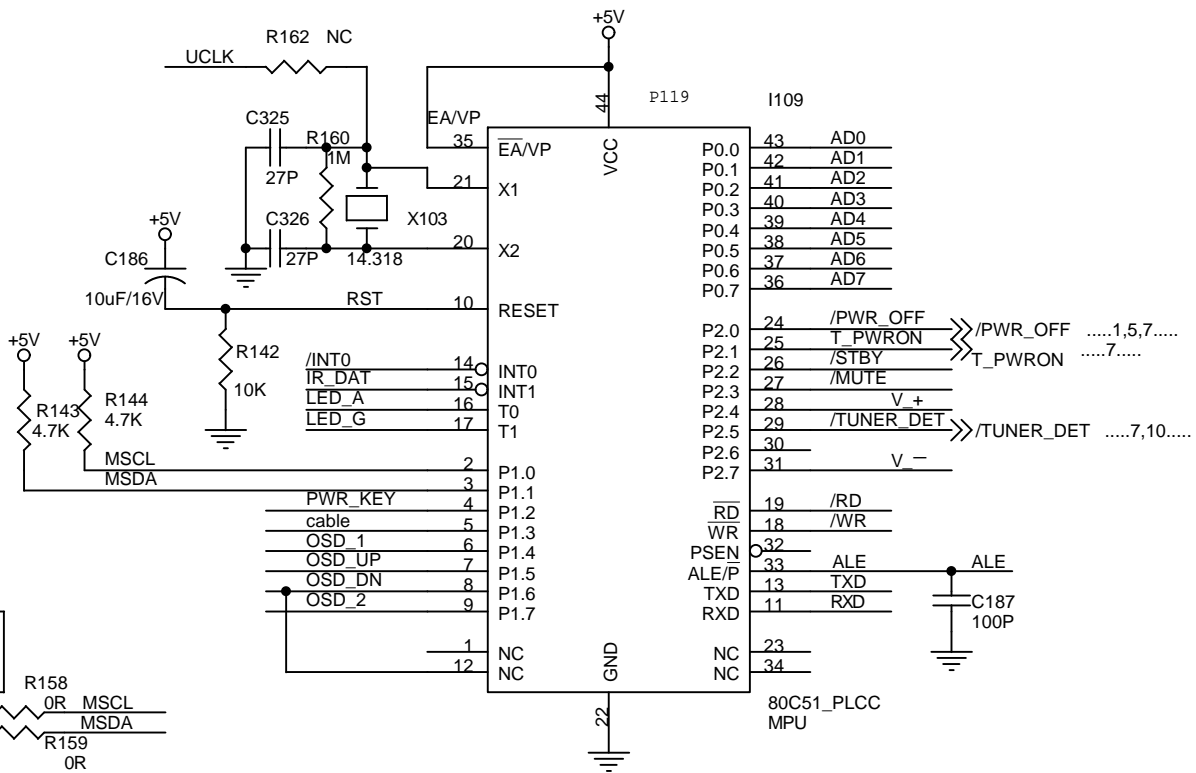
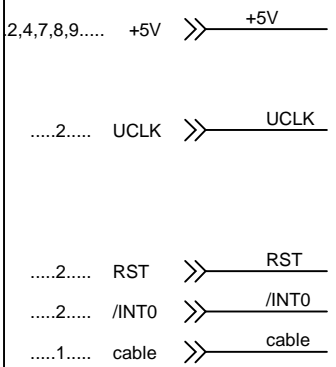
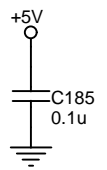
Power Plane : +3.3V\_AD , Vd , +3.3V\_AP  
Ground Plane : G84A, G84D , G84P

**\*Use 74F14**



### 6.3. MPU

**MPU**



Power Plane : +5V  
Ground Plane: GND

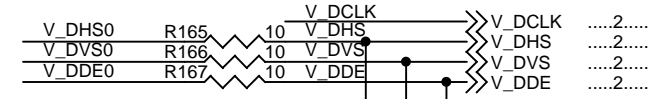
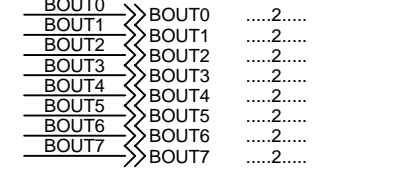
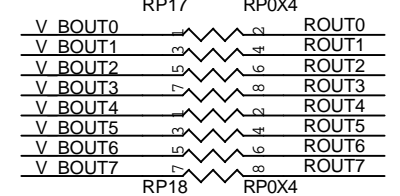
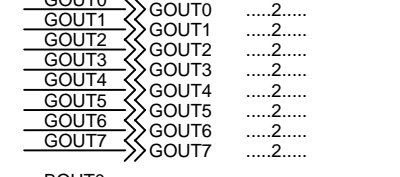
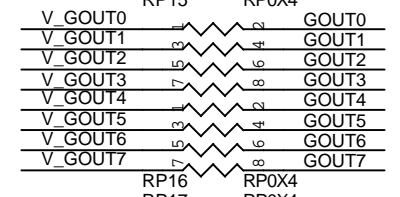
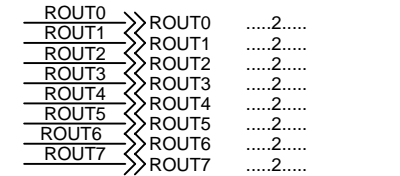
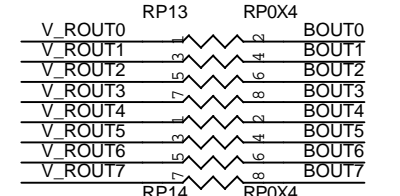
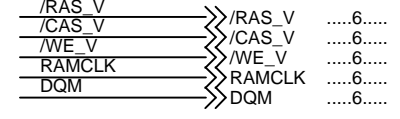
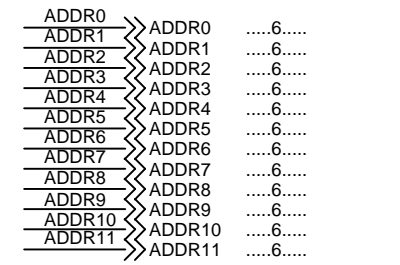
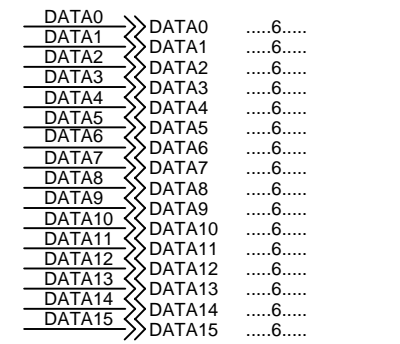
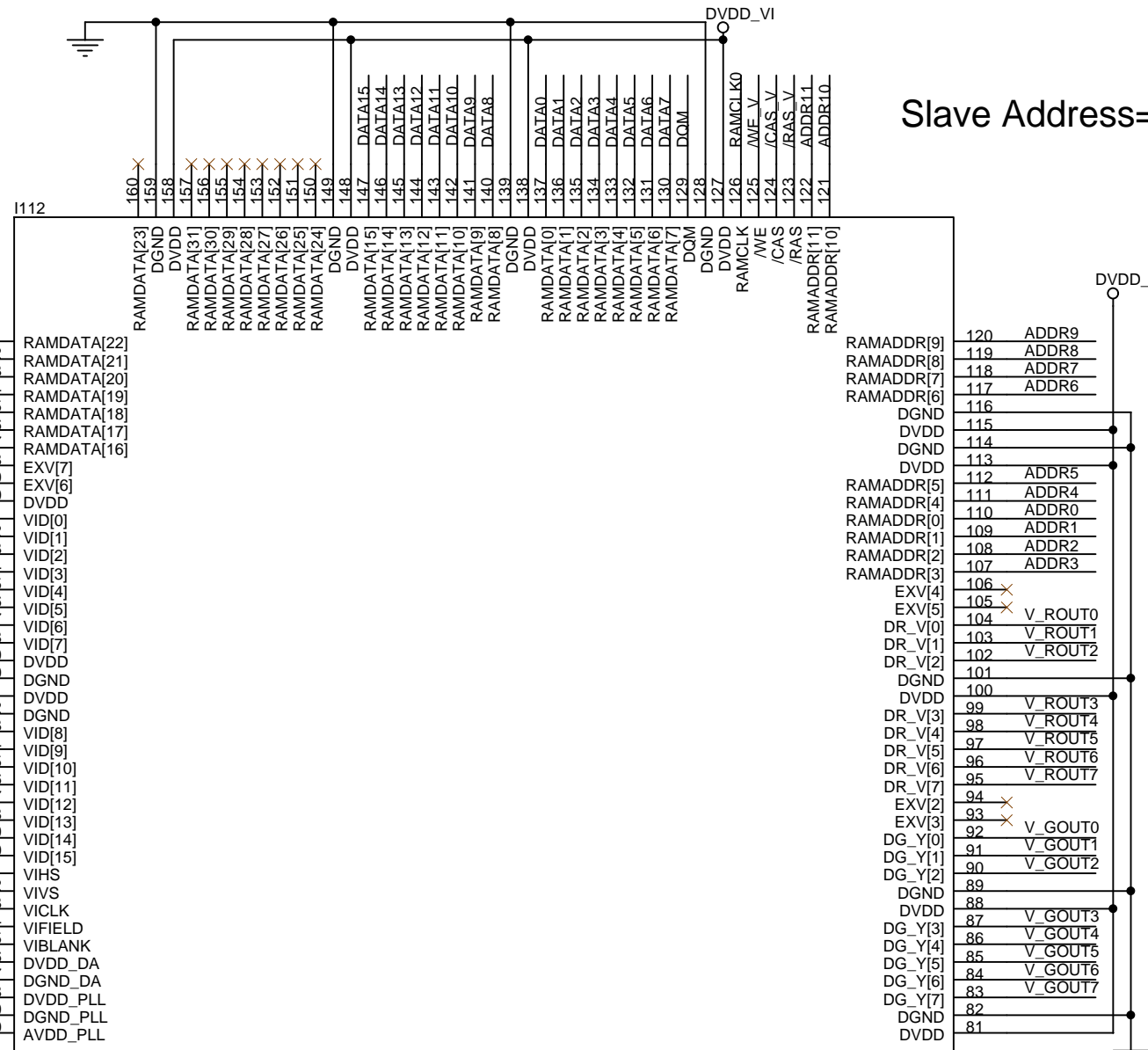
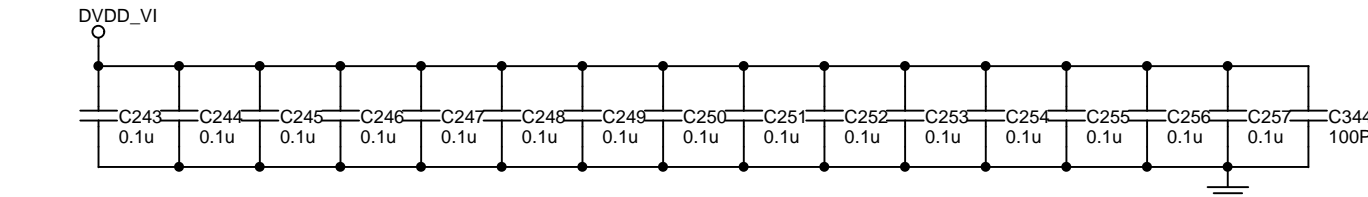
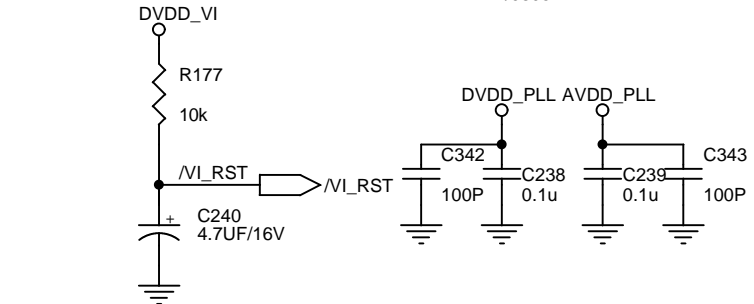
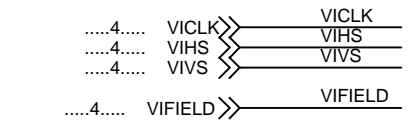


6.5. VX1520

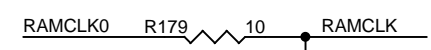
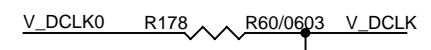
**VX1520**

.....1,2,4,8,9..... +3.3V >> +3.3V

Slave Address= 32h



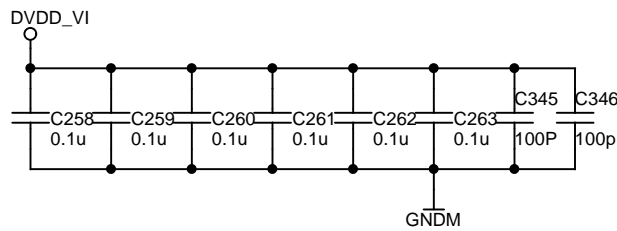
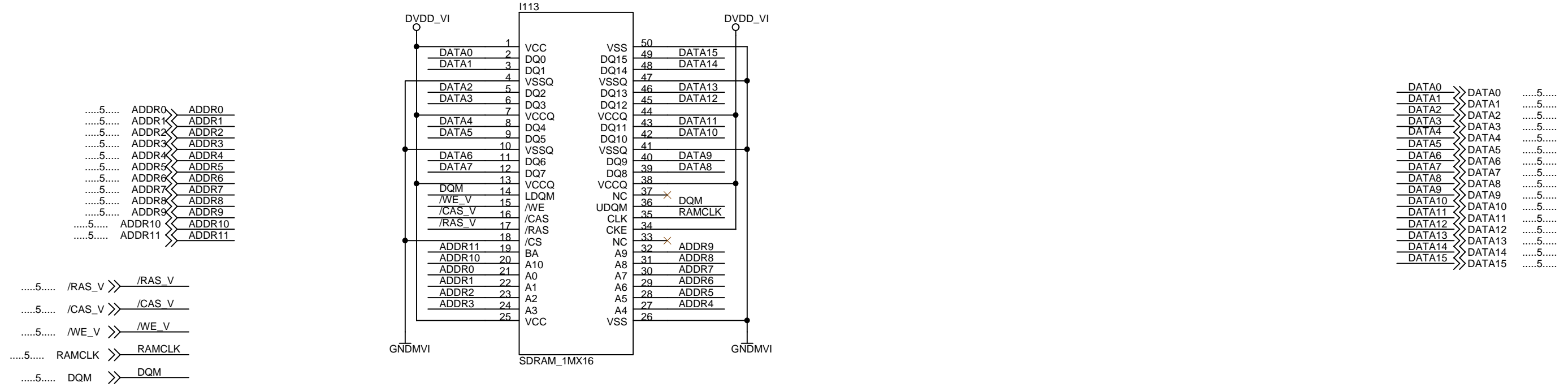
Power Plane DVDD\_VI  
Power Line :AVDD\_PLL,DVDD\_PLL  
Ground Plane: GND



JC186VA13U

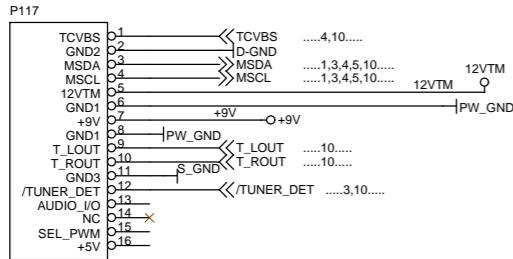
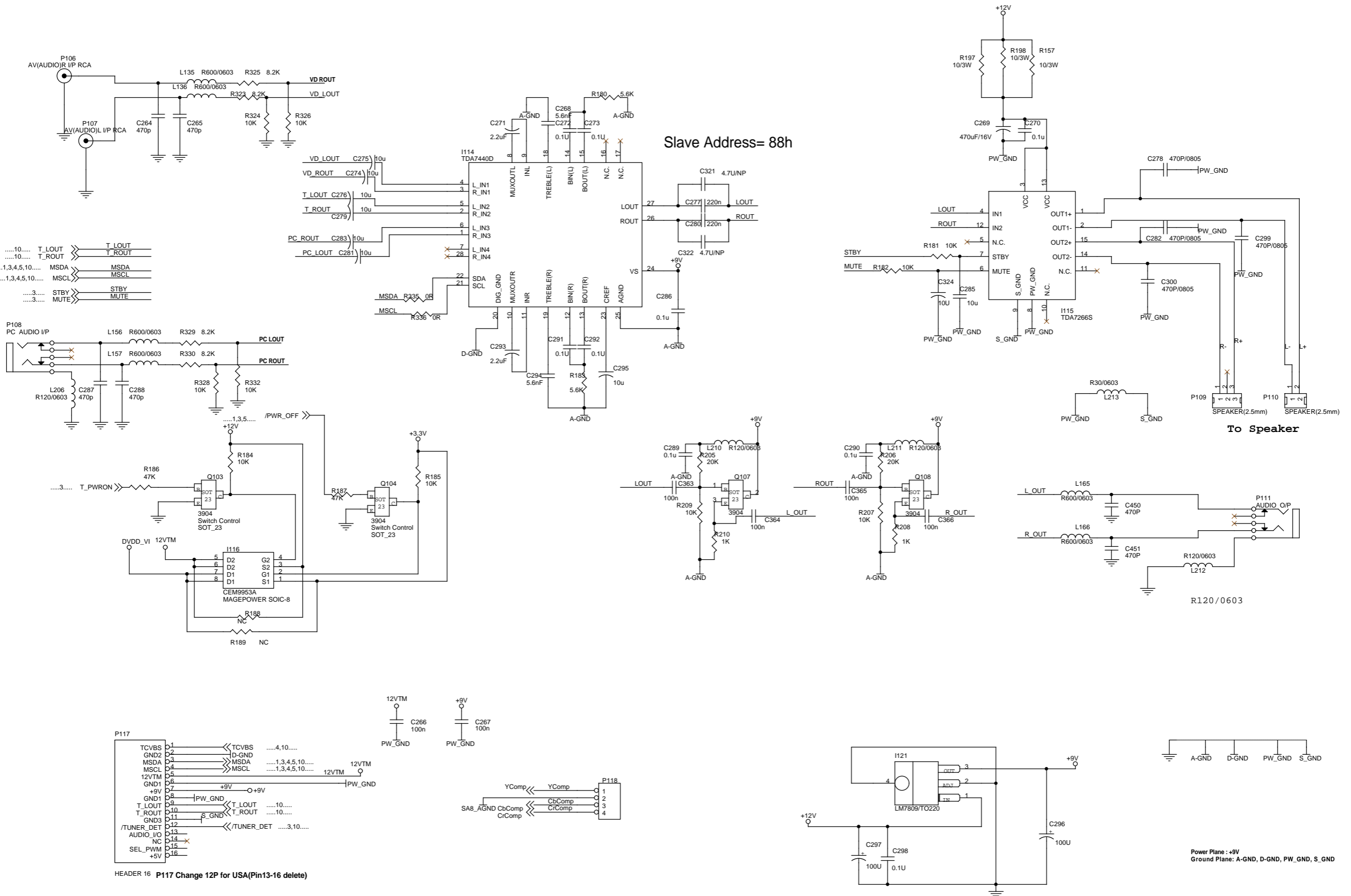
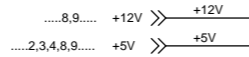
## 6.6. SDRAM

# SDRAM

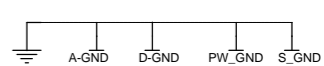
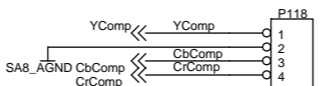


Power Plane : DVDD\_VI  
Ground Plane: GNDM

Audio with Amplifier



HEADER 16 P117 Change 12P for USA(Pin13-16 delete)



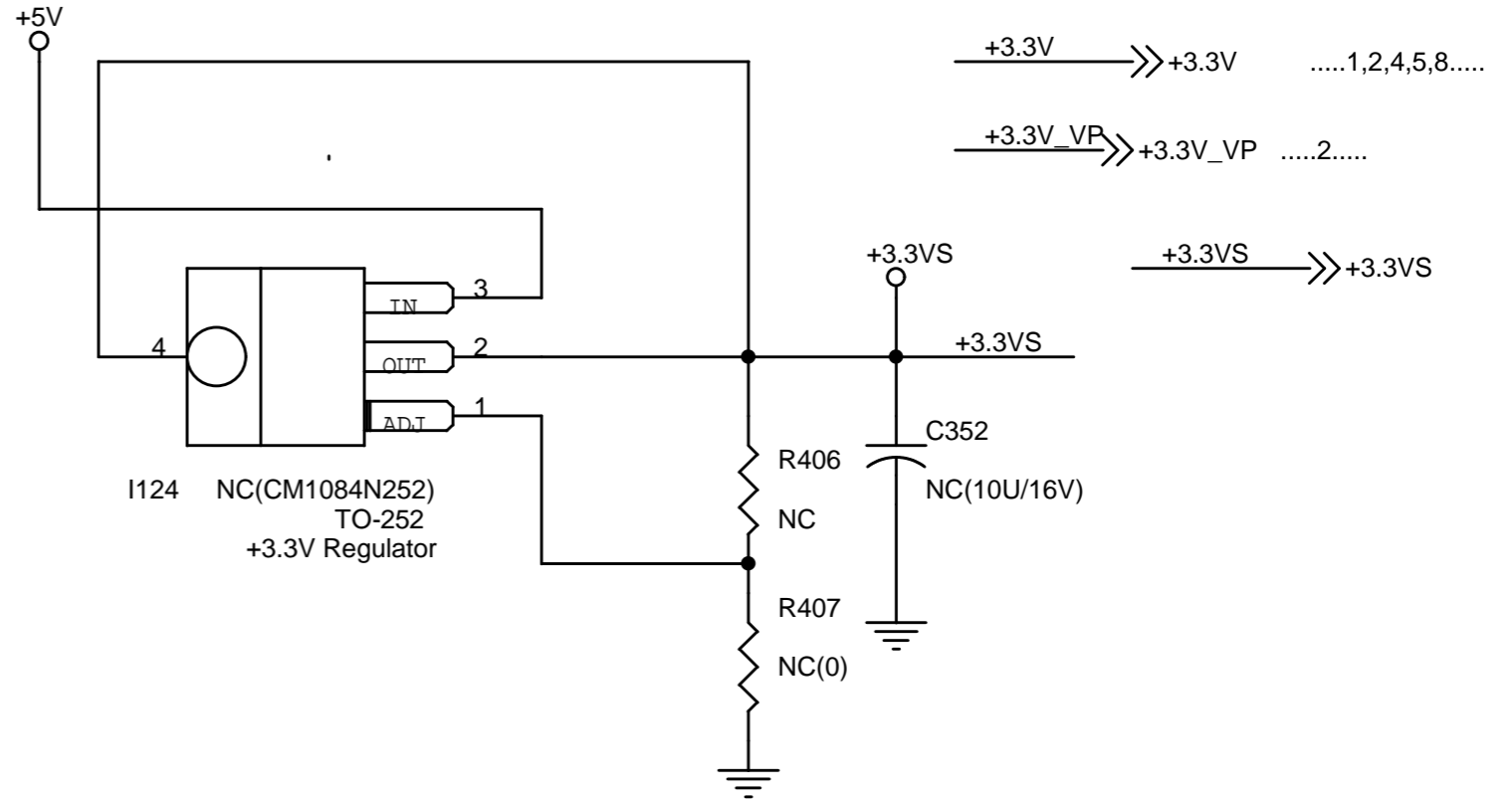
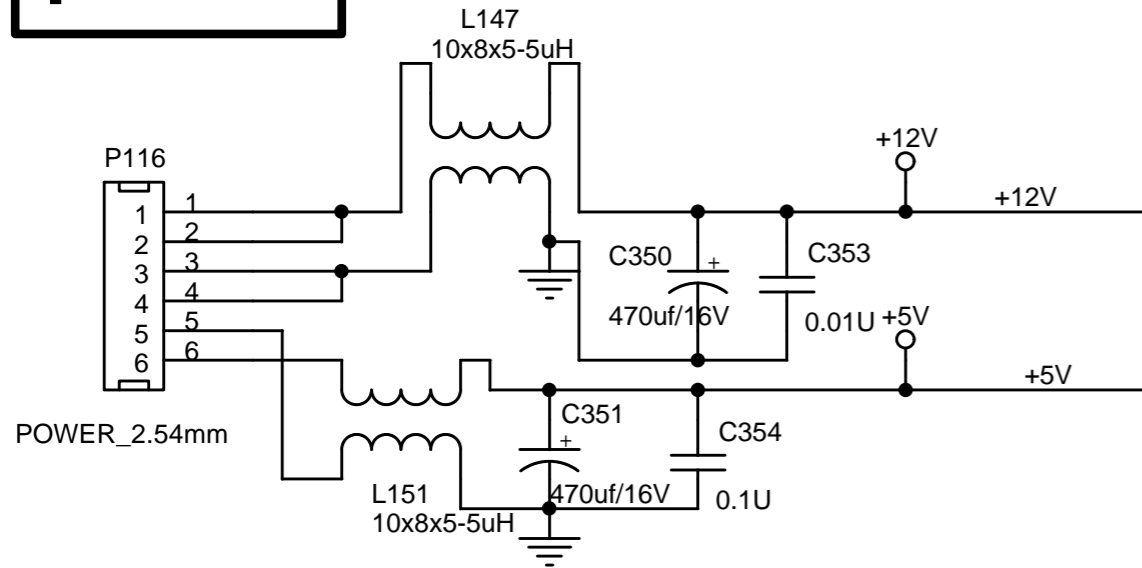
Power Plane : +9V  
Ground Plane: A-GND, D-GND, PW\_GND, S\_GND



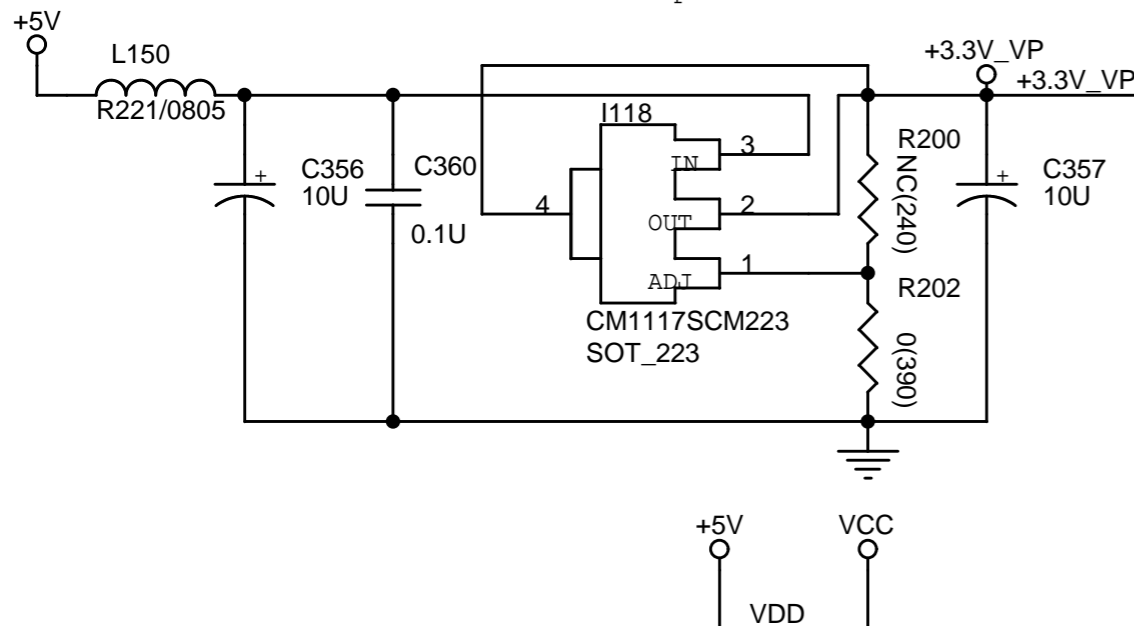


# 6.9. POWER

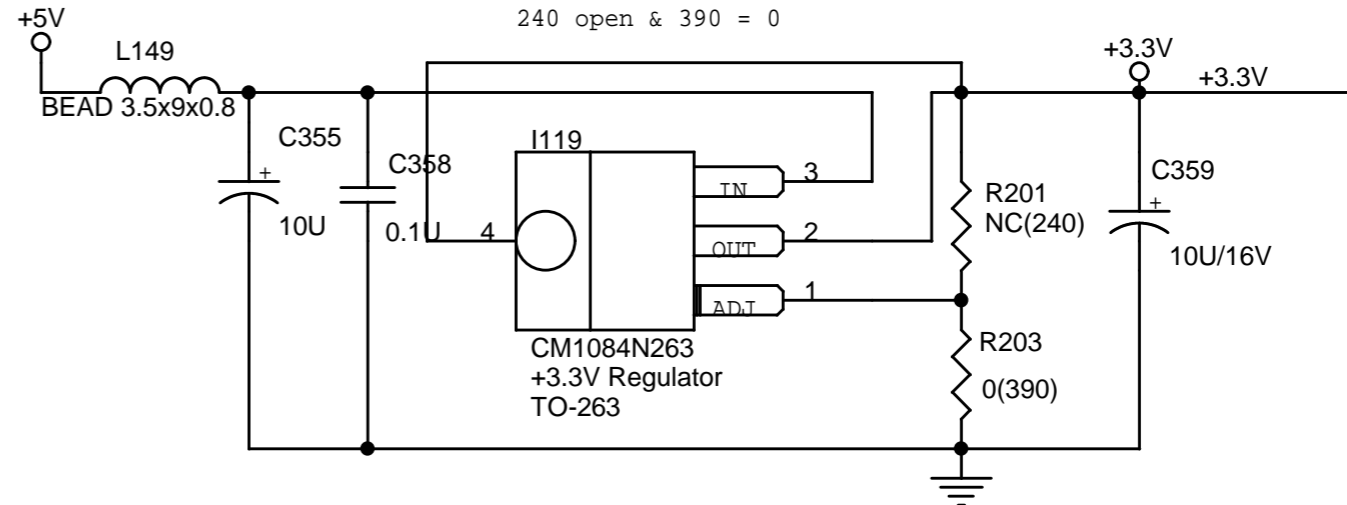
**power**



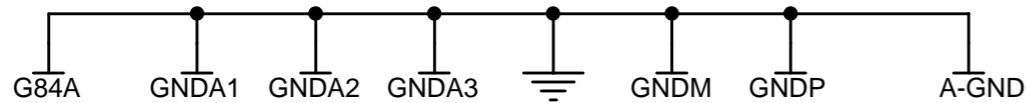
If use LT1117-3.3 then:  
240 open & 390 = 0



If use LT1084-3.3 then:  
240 open & 390 = 0



Power Plane +12V, +5V, +3.3V, +3.3V\_VP, DVDD\_VI  
Ground Plane: GND



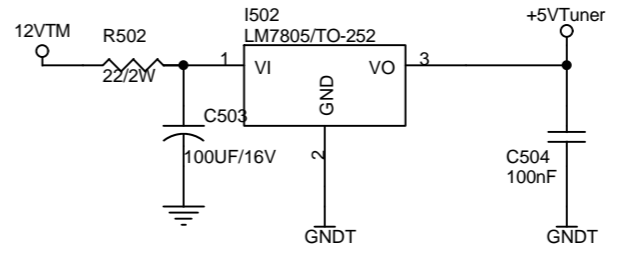
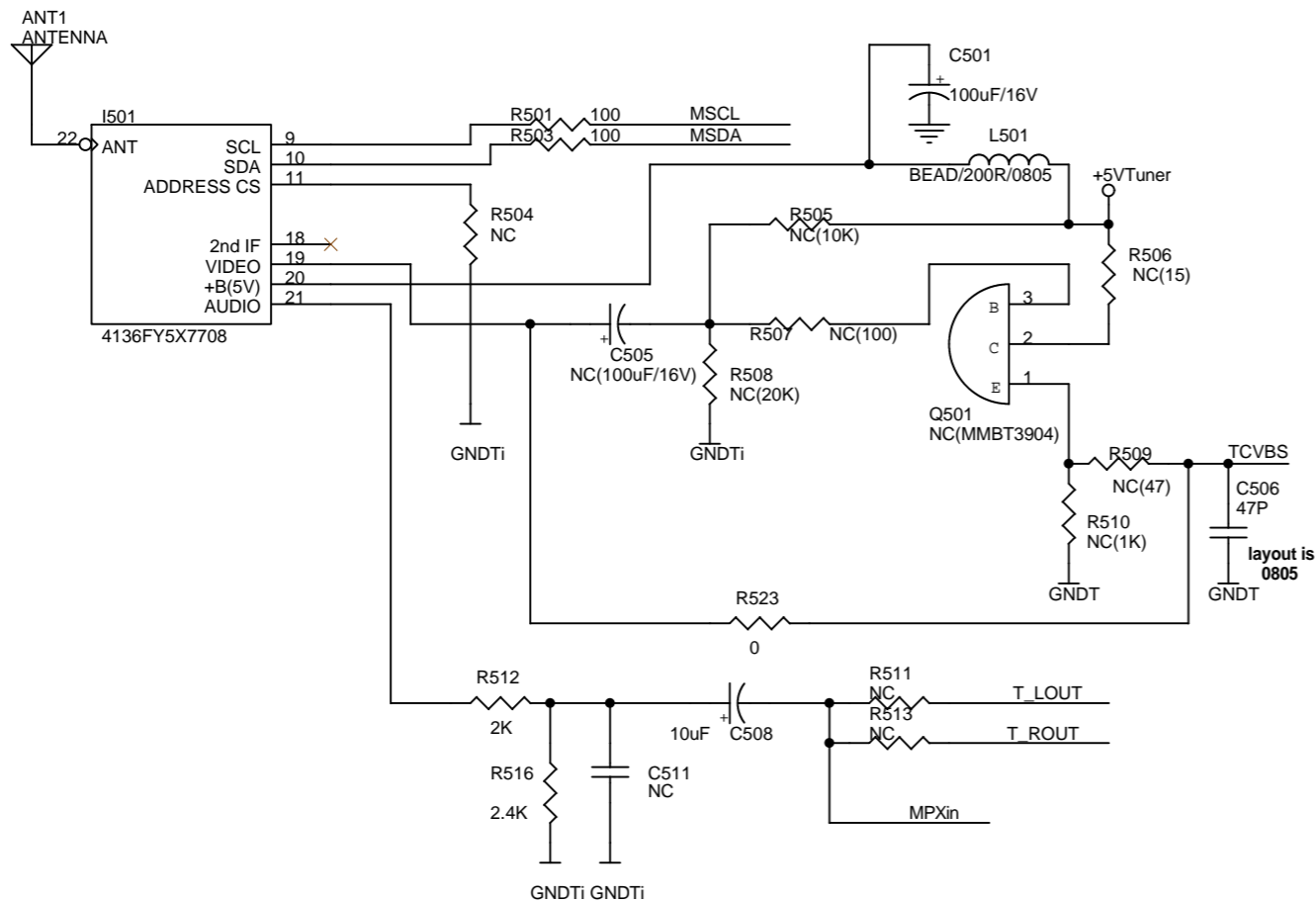
\*Short these ground planes on PCB

Power Supply

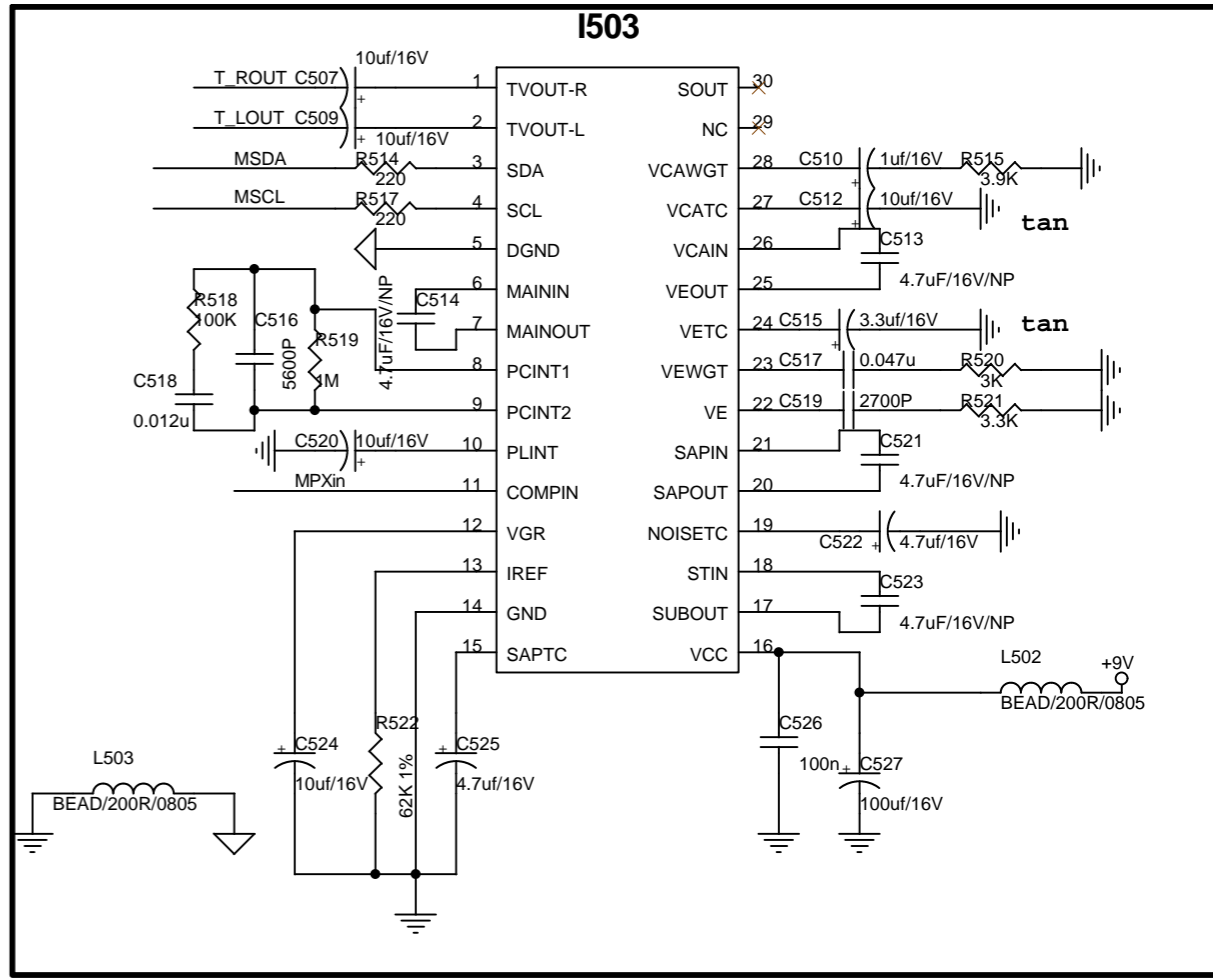
JC186VA13U

# 6.10. TUNER

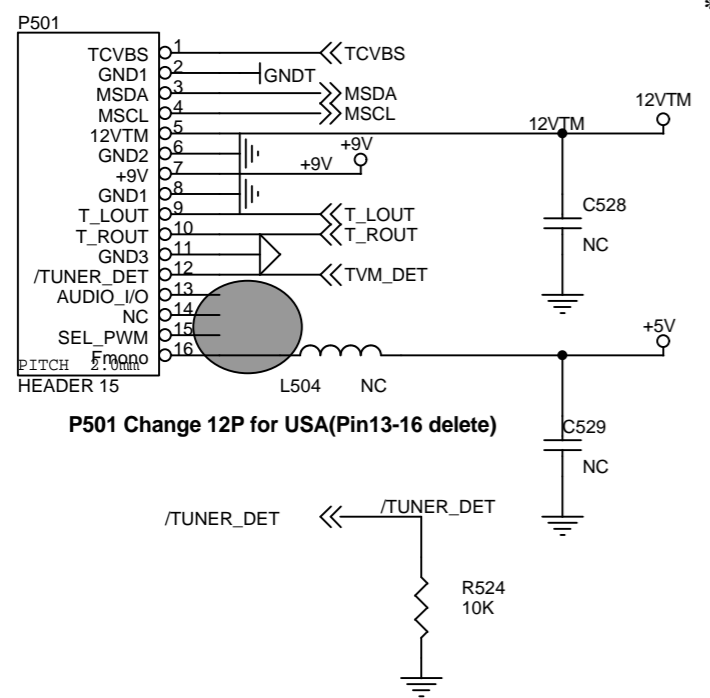
## Tuner US



## BTSC MTS DECODER



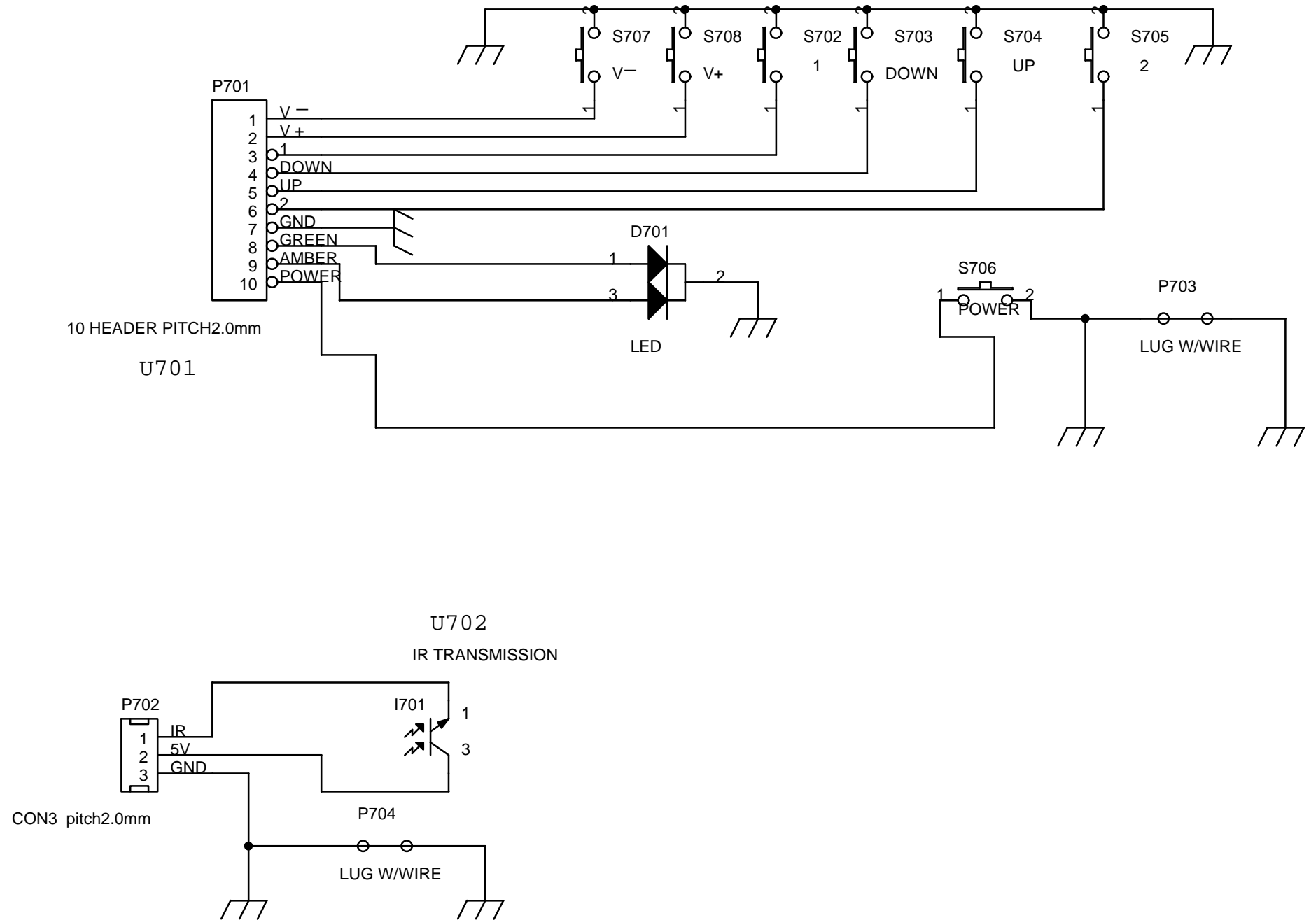
\*Short these ground planes on PCB  
GNDTi GNDT



P501 Change 12P for USA (Pin13-16 delete)

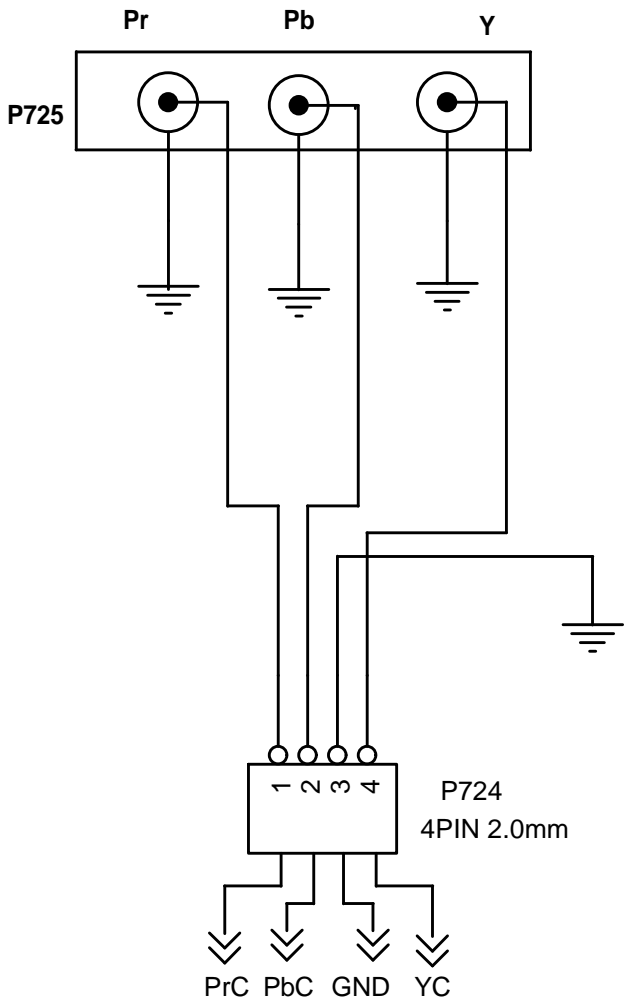
## 6.11. KEYPAD & IR

# KEYPAD&IR

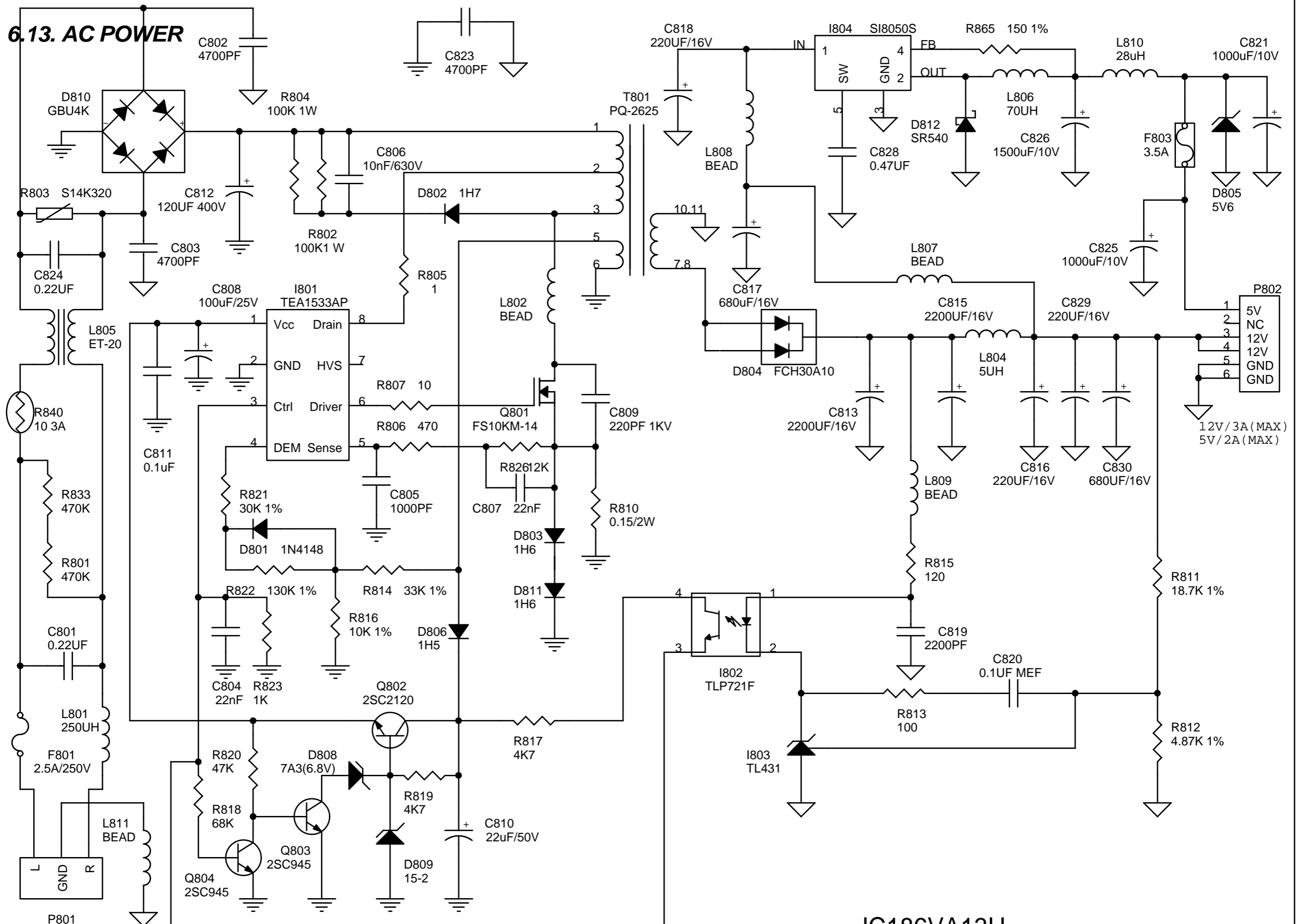


6.12. YPbPr

YPbPr BOARD



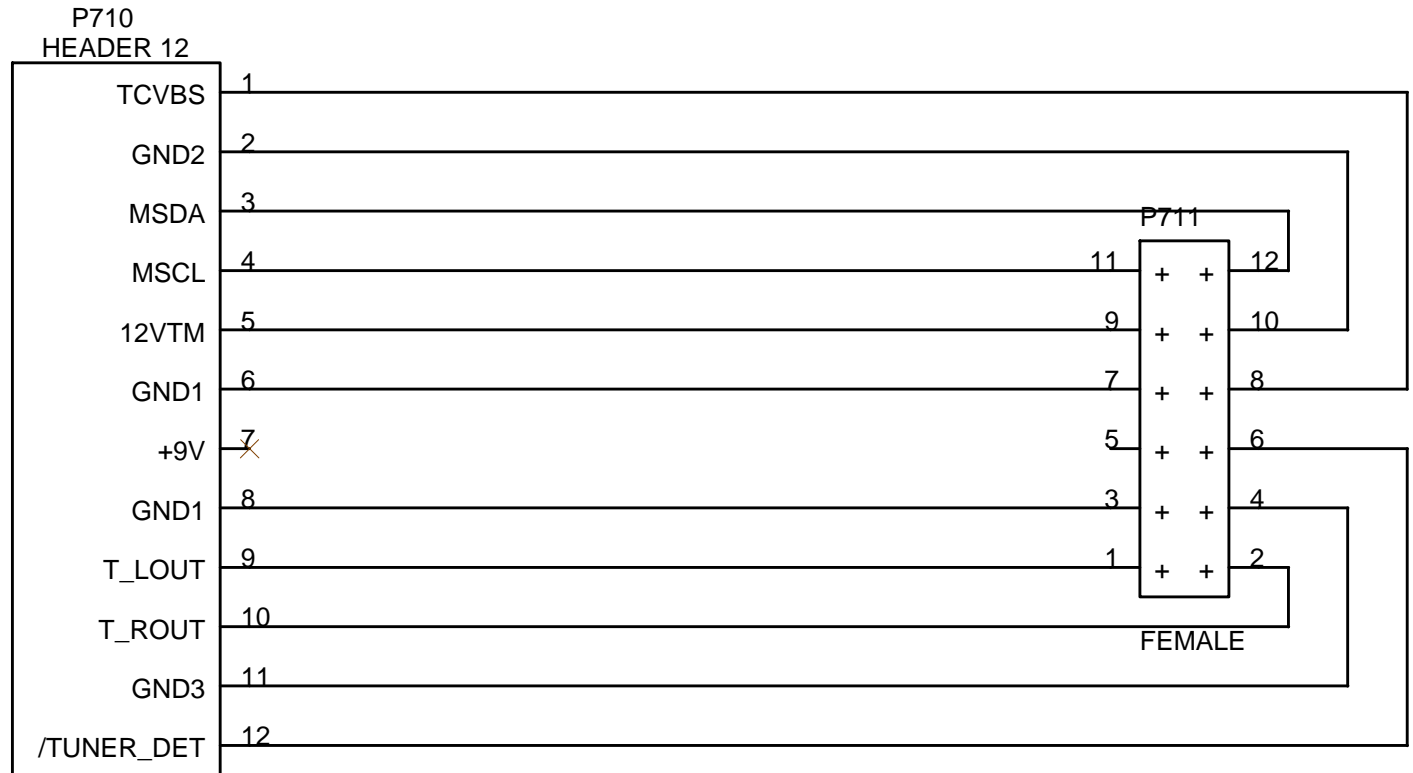
# 6.13. AC POWER



JC186VA13U

## 6.14. TRANSFER

# TRANSFER BOARD



# JC186VA13U Service Manual

## 7. WORKING THEOREM

### A. A/D converter (PC)

The ADC is to convert RGB analog signal to digital signal that scaling chip can acknowledge. The SG9884 is a complete 8-bit 110 MSPS monolithic analog interface optimized for capturing RGB graphic signal, a +3.3V power supply is necessary. Its 110 MSPS encode rate capability and full-power analog Bandwidth 300 MHz supports display resolutions of up to 1024\*768 at 85Hz.

A clamp signal is generated internally or may be provided through the CLAMP input pin. This device is fully programmable via a two-wire serial port.

The HSYNC input receives a logic signal and provide the frequency reference for pixel clock generation.

The clock generator COAST input may be used to stop synchronizing with HSYNC and continue producing a clock at its present frequency and phase.

The CLAMP logic input may be used to define the time during which the input signal is clamped to GND, establishing a black reference.

When the Power Down control input is bringing to low, SG9884 is put into a very low power dissipation mode, all the output buffers are placed in a high-impedance state.

### B. Video Decoder (video)

The SAA7118 is a video capture device for applications at the image port of VGA controllers. The source signal (AV, S-video, TV, YPbPr) respectively input the decoder through the four-channel analog preprocessing circuit which including source selection, anti-aliasing filter and ADC with succeeding decimation filters from 27 to 13.5MHz data rate. Each preprocessing channel comes with an automatic clamp and gain control. The decoder combines a clock Generation Circuit, a digital multistandard decoder containing two-dimensional chrominance/luminance separation by an adaptive comb filter and a brightness, contrast and saturation control circuit. And output 8-bit digital signal to the De-interlace and Scaler through the X-port.

### C. De-interlace

VX1520 accepts digitized interlace video from video decoder, and converts it into non-interlaced formats for directly displaying on progressive devices. VX1520 provide theater quality progressive-scan video with Motion-Adaptive 3-D De-interlace, 50Hz to 60 Hz frame rate conversion, and automatic video source mode detection. The build-in picture enhancement unit let users manipulate all known image effects for displaying variation.

### D. Scaling controller

The TP6732 is a single-chip analog and digital panel monitor controller which implement the PC VGA display signals input and color TFT LCD output. Including Display Controller, OSD Controller, Overlay Controller, Display Mode Detector, Video Controller, Gamma Corrector, and an MPU Interface which provides for the system setup and programming operation.

The TP6732 use port A for TV input which is 24-bit YUV 4: 2: 2 video input form the De-interlace. At the same time 8-bit data from decoder also can be input if user perform PIP function under the PC condition. User also can work under PC when the chip provide port B which is 24-bit data input from the ADC. The chip choose the correct source and detection of the display resolution and timing of input signals generated from various PC graphic cards. And then it automatically scales the input image to fill screen of the LCD monitor.

The TP6732 also provides the power sequential control for flat panel. FPVCC signal is applied to the digital power of flat panel, and FPBACK signal is applied +5v to the inverter for the backlight of flat panel. Their on/off sequence is programmable.

### E. Audio

Four audio sources put into TDA7440D which fist select the sources and do pre-amplify. The bass and treble control also be provided. The control of all the functions is accomplished by serial bus.

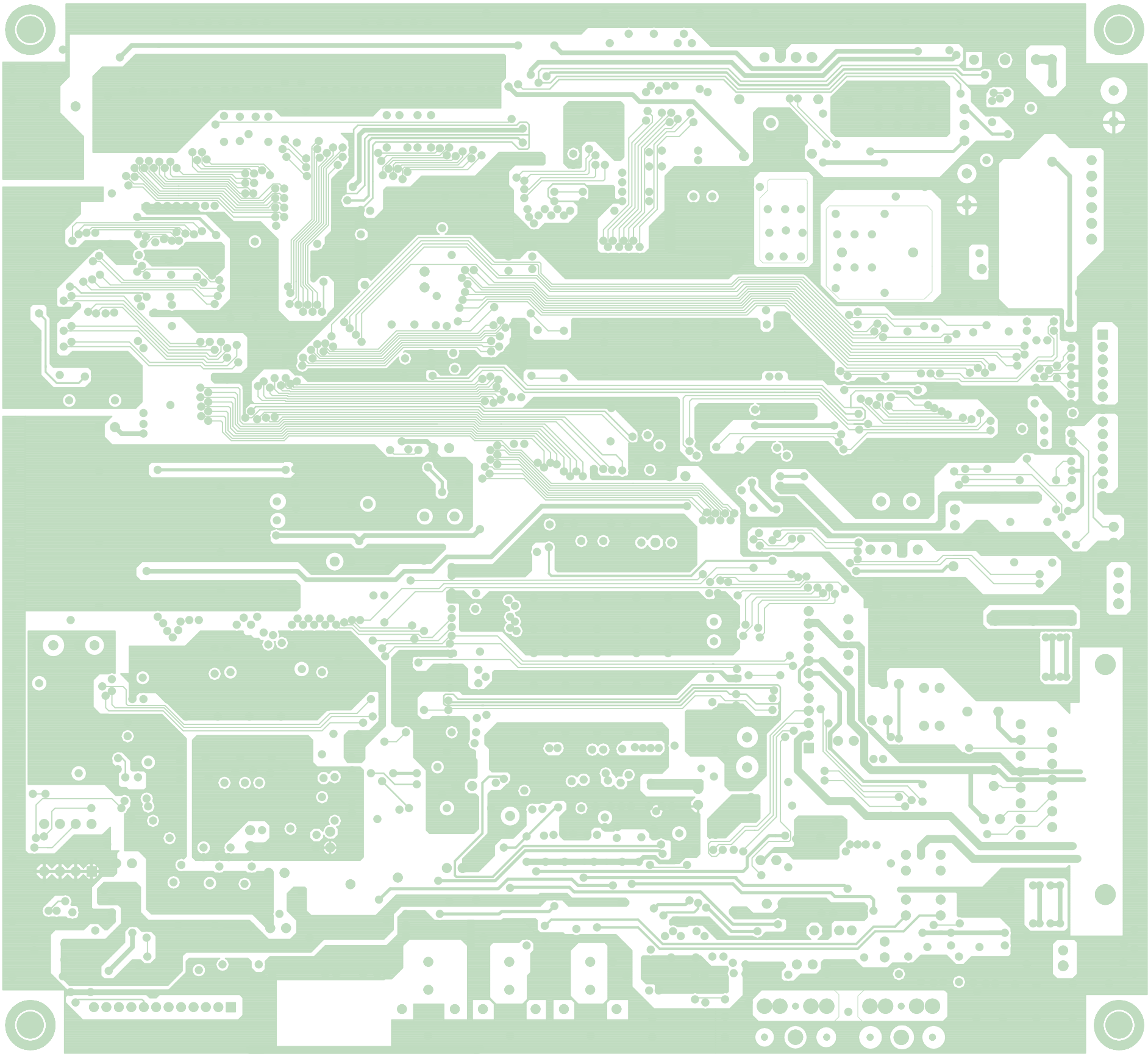
# *JC186VA13U Service Manual*

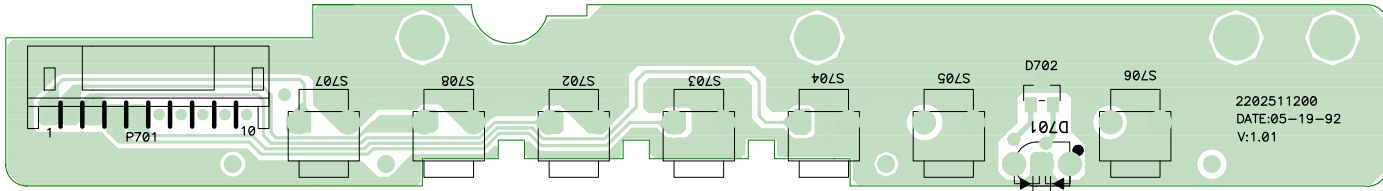
## ***F. Tuner***

The Antenna receive the TV signal and modulate it to the CVBS signal which can be recognized by the decoder and MTS audio signal output to the sound multiplexing decoder IC CXA2020M. The MCU can automatic detect the tuner and send order by serial bus.

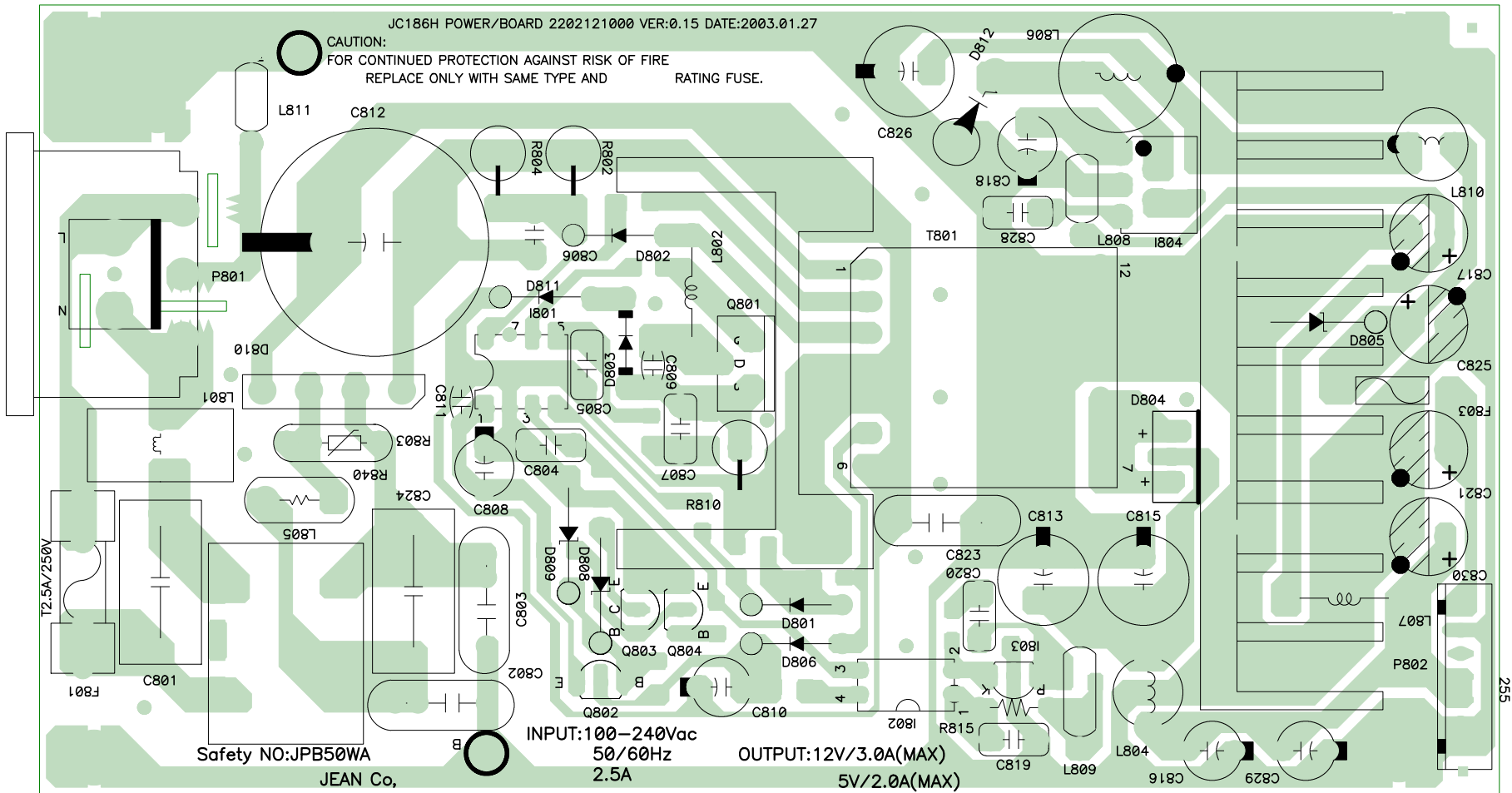








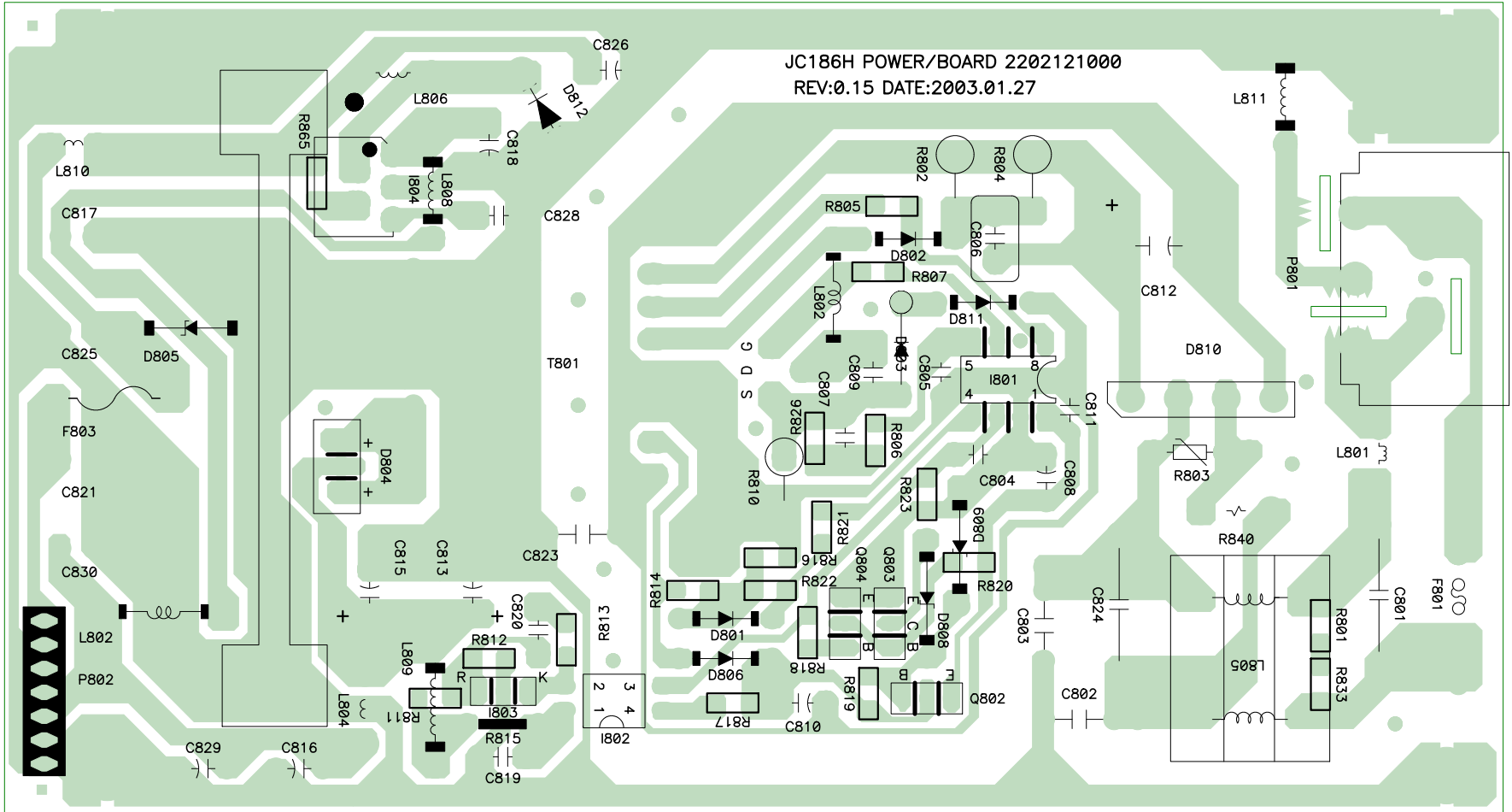
CAUTION:  
FOR CONTINUED PROTECTION AGAINST RISK OF FIRE  
REPLACE ONLY WITH SAME TYPE AND  
RATING FUSE.



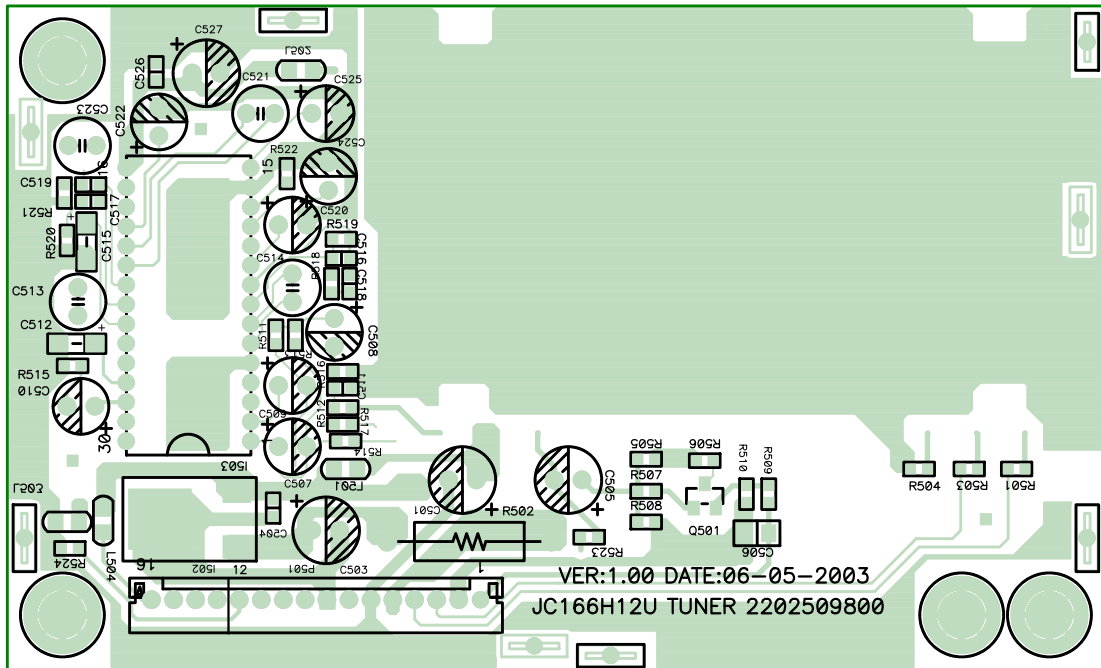
JC186VA13U

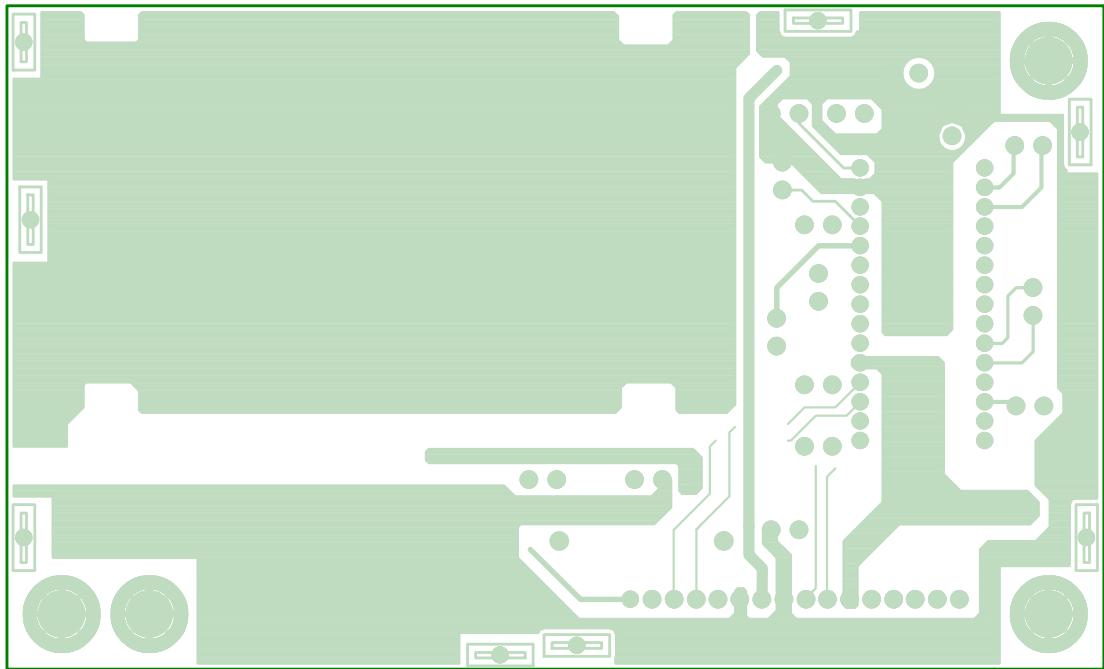
# JC186VA13U

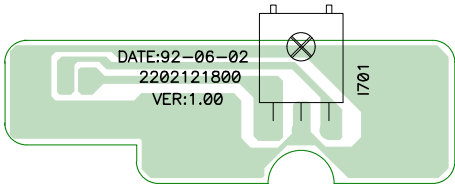
JC186H POWER/BOARD 2202121000  
REV:0.15 DATE:2003.01.27



## 8.7. TUNER PCB TOP VIEW

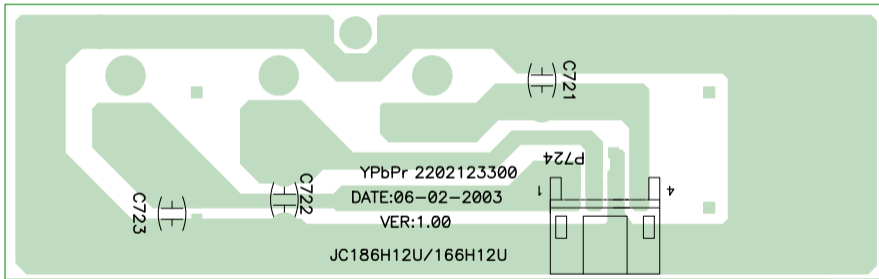




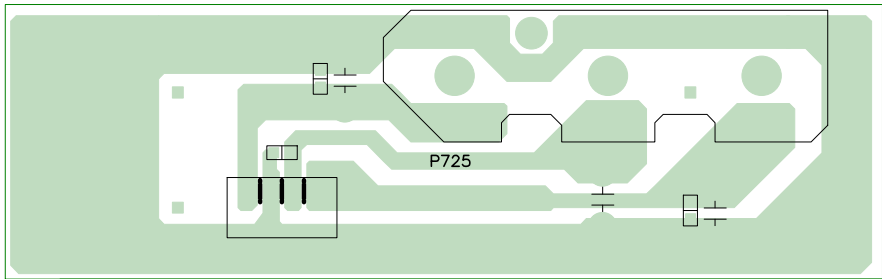




## 8.11. YPbPr PCB TOP VIEW

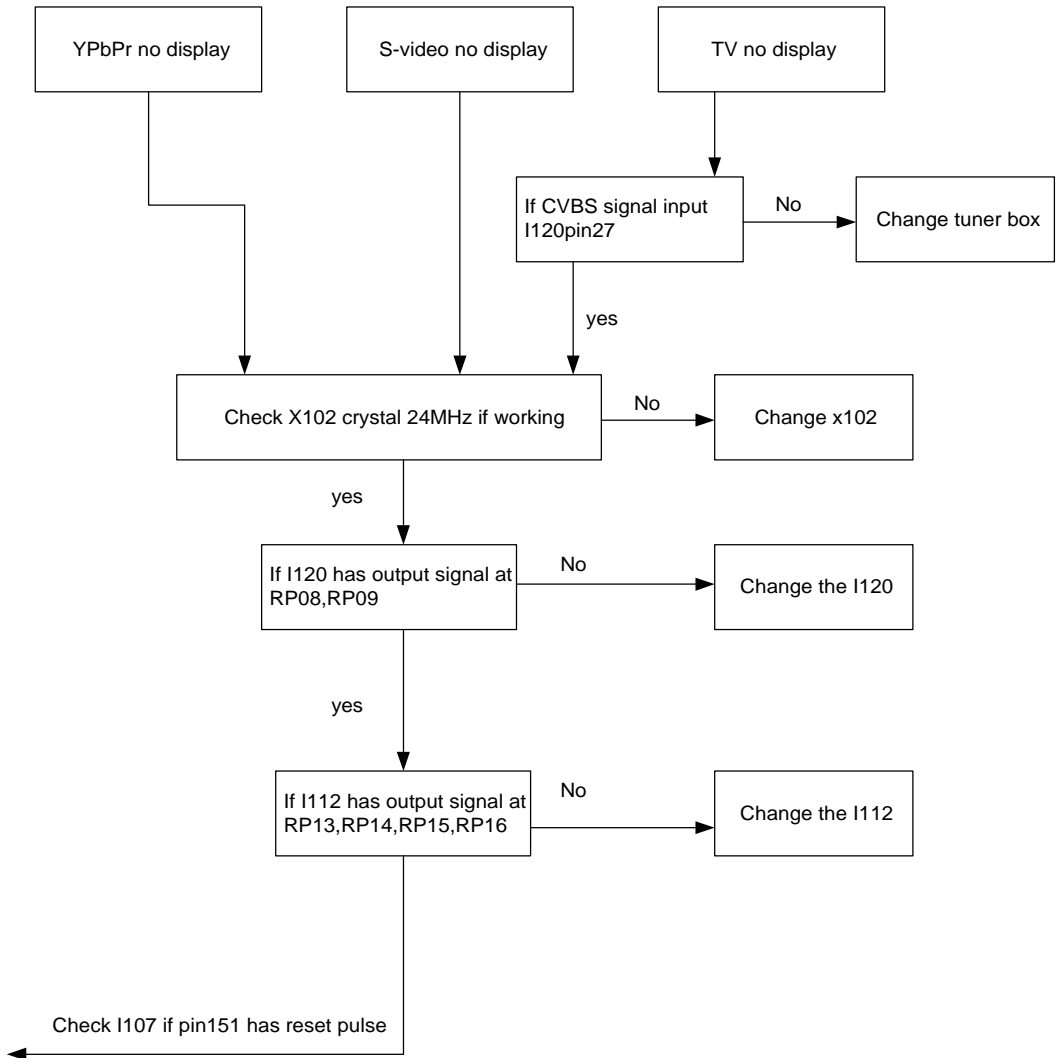


JC186VA13U

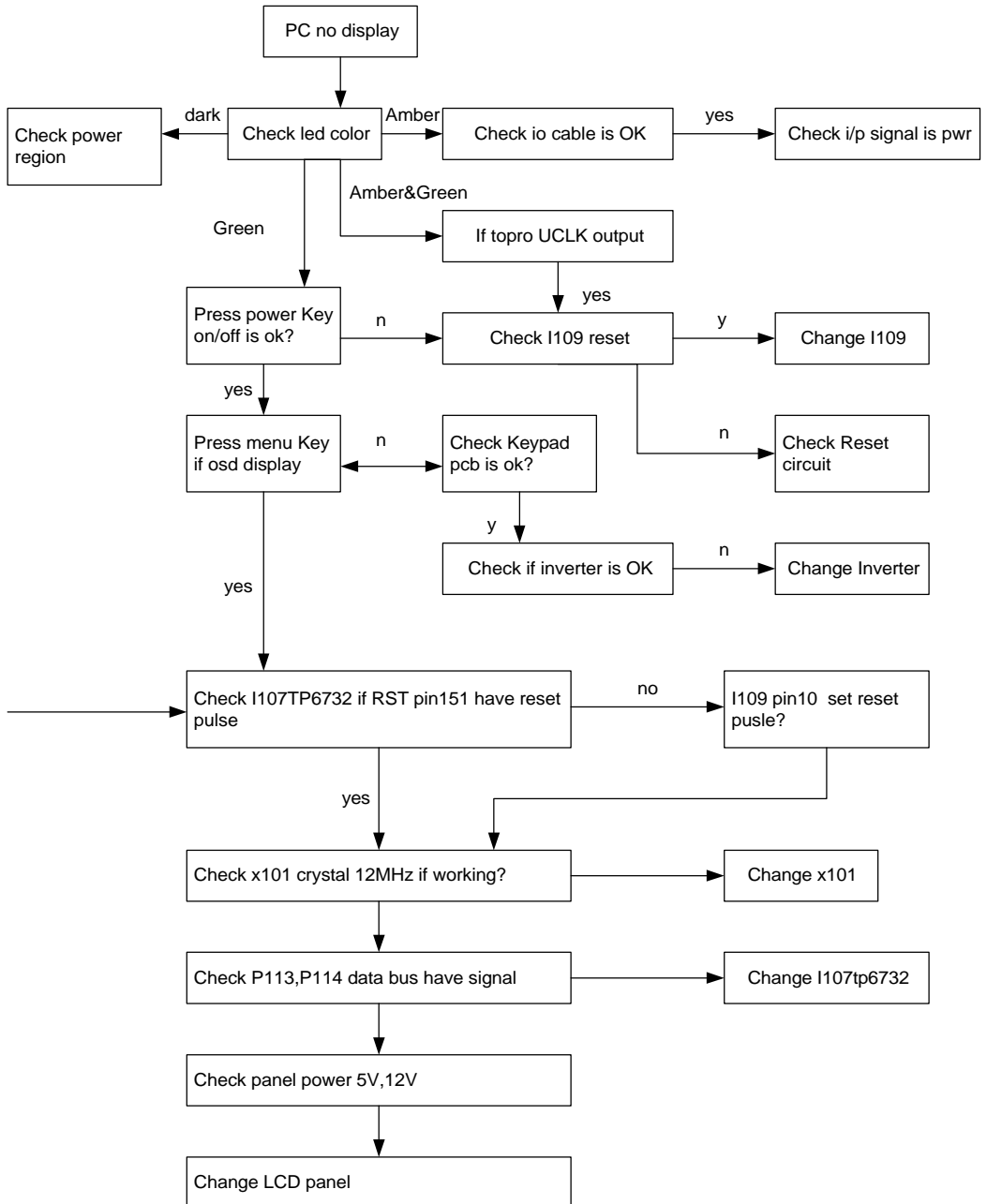


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## 9. TROUBLE SHOOTING FLOW CHART



# JC186VA13U Service Manual



# JC186VA13U Service Manual

## 10. ADJUSTMENT

### 10.1. ADJUSTMENT CONDITIONS AND PRECAUTIONS

1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.
3. ESD protection is needed before adjustment.

### 10.2. MAIN ADJUSTMENTS

NO.	FUNCTION	DESIGNATION
1.	Eeprom Initial	Function Key
2.	White Balance	Function Key
3.	Geometry	Function Key

### 10.3. ALIGNMENT PROCEDURES

#### Adjustment Conditions and Precautions:

- (A). Power supply voltage:  
AC 110/120V  $\pm$  10% 60 Hz  $\pm$  5%, AC 220/240V  $\pm$  10% 50 Hz  $\pm$  5%.
- (B). Warm up time:  
The display must be power ON for at least 30 minutes at full white pattern before starting alignments.  
This is especially critical in color temperature and white balance adjustments.
- (C). Signals: reference the front detail specifications and timing table.  
Video : reference the front detail specifications.

#### 1. Eeprom Initial:

- A. Timing : 1024x768@75Hz.
- B. Pattern : Cross hatch.
- C. Switch off the power and press the “ ” and “  ” key simultaneously, then switch on the power. At this time we can enter into the factory mode.
- D. Select the “EEPROM INIT” item and press “”key to reset the Eeprom.

#### 2. White Balance Adjustment :

- A. Timing : 1024x768@75Hz.
- B. Pattern : Full white.
- C. Set CA110 color analyzer at the center of screen and along a perpendicular to the screen at 20cm from the display.
- D. Move “ ” key to select the “ WHITE BALANCE” item in the factory mode and press “”key, then the white balance will be auto dadjusted .
- E. Color temperature verification : (Set Brightness and Contrast to Maximum)
  - (1) 6500K verify : press “ ”, “ ” key to move cursor to 6500K at factory mode and press “  ” key, and then check the color temperature is
$$x=0.310 \pm 0.03$$
$$y=0.330 \pm 0.03$$

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Y 200 cd/m<sup>2</sup>

- (2) 9300K verify : press “ ”, “ ” key to move cursor to 9300K at factory mode and press “  ” key, and then check the color temperature is
- $x=0.283 \pm 0.03$   
 $y=0.298 \pm 0.03$

### 3. Geometry:

- A. Pattern : Cross hatch
- B. Change each mode on the timing table in turns and excute the “Auto Adjust “ function on the OSD menu , then all the data of the each mode will be auto saved after finish the “Auto Adjust “ function.
- C. Until all of modes are agjusted, press “  ” to exit OSD menu and switch power off to exit factory mode.

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## 12. ELECTRICAL PARTS LIST

When you place a parts order, be sure to indicate the following data on the order:

- Location No.
- Parts No.
- Description

LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
<b>MAIN P.C.BOARD</b>					
C101		2336322613	CAP,MINI ELE 105°C	EC 22u/ 16V 4*7	P=2.5
C102		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C103		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C104		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C105		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C106		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C107		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C108		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C109		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C110		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C111		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C112		2341122096	CAP,CHIP 125°C	CS 0603/COG/50V	22p J
C113		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C114		2333310713	CAP,ELE 105°C	EC 100u/ 16V 6.3*11	P=2.5
C115		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C116		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C117		2341122096	CAP,CHIP 125°C	CS 0603/COG/50V	22p J
C118		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C119		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C120		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C121		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C122		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V	27p J
C123		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C124		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C125		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C126		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C127		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C128		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C129		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C130		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C131		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C132		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C133		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C134		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C135		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C136		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C137		2333647513	CAP,ELE 105°C	EC 4.7u/ 50V 5*11	P=2.5
C138		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C139		2342139296	CAP,CHIP 125°C	CS 0805/COG/50V	3900P J
C140		2347439396	CAP,CHIP 85°C	CS 0805/Y5V/50V	0.039u Z
C141		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C145		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C146		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C148		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C149		2341133196	CAP,CHIP 125°C	CS 0603/COG/50V	330p J
C150		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C151		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C152		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C153		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C154		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C155		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C156		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C157		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C158		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C159		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
C160		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C161		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C162		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C163		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C164		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C165		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C166		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C167		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C168		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C169		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C170		2336647513	CAP,MINI ELE 105°C	EC 4.7u/ 50V 4*7	P=2.5
C172		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C173		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C174		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C175		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C176		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C177		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C179		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V	27p J
C180		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V	27p J
C181		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V	27p J
C182		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V	27p J
C183		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V	27p J
C184		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V	27p J
C185		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C186		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C187		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C188		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C189		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C190		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C191		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C192		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C193		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C194		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C195		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C196		2336310713	CAP,MINI ELE 105°C	EC 100u/ 16V 6.3*7	P=2.5
C197		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C198		2336310713	CAP,MINI ELE 105°C	EC 100u/ 16V 6.3*7	P=2.5
C199		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C200		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C201		2341110296	CAP,CHIP 125°C	CS 0603/COG/50V	1000p J
C202		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C203		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C204		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C205		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C206		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C207		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C208		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C209		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C210		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C211		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C212		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C213		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C214		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V	100p J
C216		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C218		2341139096	CAP,CHIP 125°C	CS 0603/COG/50V	39p J
C219		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V	47p J
C220		2341139096	CAP,CHIP 125°C	CS 0603/COG/50V	39p J
C221		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V	47p J
C222		2336310713	CAP,MINI ELE 105°C	EC 100u/ 16V 6.3*7	P=2.5
C223		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C224		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C225		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C226		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C227		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C228		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z



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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
C229		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C230		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C231		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C232		2336310713	CAP,MINI ELE 105°C	EC 100u/ 16V 6.3*7	P=2.5
C233		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C234		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C235		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C236		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C237		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C238		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C239		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C240		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C241		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V 27p	J
C242		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V 27p	J
C243		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C244		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C245		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C246		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C247		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C248		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C249		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C250		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C251		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C252		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C253		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C254		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C255		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C256		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C257		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C258		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C259		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C260		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C261		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C262		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C263		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C264		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V 470p	J
C265		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V 470p	J
C266		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C267		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C268		2346156296	CAP,CHIP 125°C	CS 0603/X7R/50V 5600p	K
C269		233347791	CAP,ELE 105°C	EC 470u/ 16V 10*12.5	P=5.0
C270		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C271		2333622513	CAP,ELE 105°C	EC 2.2u/ 50V 5*11	P=2.5
C272		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C273		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C274		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C275		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C276		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C277		2346422496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.22u	Z
C278		2342147196	CAP,CHIP 125°C	0805COG 470.000PF 50V	J
C279		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C280		2346422496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.22u	Z
C281		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C282		2342147196	CAP,CHIP 125°C	0805COG 470.000PF 50V	J
C283		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C285		2333310613	CAP,ELE 105°C	EC 10u/ 16V 5*11	P=2.5
C286		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C287		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V 470p	J
C288		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V 470p	J
C289		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C290		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C291		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C292		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C293		2333622513	CAP,ELE 105°C	EC 2.2u/ 50V 5*11	P=2.5
C294		2346156296	CAP,CHIP 125°C	CS 0603/X7R/50V 5600p	K

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
C295		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7 P=2.5	
C296		2333310701	CAP,ELE 105°C	EC 100u/ 16V 6.3*11 P=2.5	
C297		2333310713	CAP,ELE 105°C	EC 100u/ 16V 6.3*11 P=2.5	
C298		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C299		2342147196	CAP,CHIP 125°C	0805COG 470.000PF 50V	J
C300		2342147196	CAP,CHIP 125°C	0805COG 470.000PF 50V	J
C304		2336347791	CAP,MINI ELE 105°C	EC 470u/ 16V 8*9 P=5.0	
C305		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C306		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C307		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C308		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C309		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C310		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C311		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C312		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C313		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C314		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C315		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C316		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C317		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C318		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C319		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C320		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V 47p	J
C321		2320647513	CAP,ELE NP 105°C	EC 4.7u/ 50V 5*11 P=2.5	
C322		2320647513	CAP,ELE NP 105°C	EC 4.7u/ 50V 5*11 P=2.5	
C324		2333310613	CAP,ELE 105°C	EC 10u/ 16V 5*11 P=2.5	
C325		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V 27p	J
C326		2341127096	CAP,CHIP 125°C	CS 0603/COG/50V 27p	J
C340		2333347791	CAP,ELE 105°C	EC 470u/ 16V 10*12.5 P=5.0	
C342		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V 100p	J
C343		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V 100p	J
C344		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V 100p	J
C345		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V 100p	J
C346		2341110196	CAP,CHIP 125°C	CS 0603/COG/50V 100p	J
C347		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C348		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C350		2333347791	CAP,ELE 105°C	EC 470u/ 16V 10*12.5 P=5.0	
C351		2333347791	CAP,ELE 105°C	EC 470u/ 16V 10*12.5 P=5.0	
C353		2346410396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.01u	Z
C354		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C355		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7 P=2.5	
C356		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7 P=2.5	
C357		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7 P=2.5	
C358		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C360		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C362		2333310713	CAP,ELE 105°C	EC 100u/ 16V 6.3*11 P=2.5	
C363		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C364		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C365		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C366		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C367		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.047u	Z
C400		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C401		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C402		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C403		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C404		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C405		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C406		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C424		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.1u	Z
C426		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.047u	Z
C427		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.047u	Z
C428		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.047u	Z
C429		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.047u	Z
C430		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.047u	Z
C431		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V 0.047u	Z

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
C432		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C433		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C435		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C447		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C450		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C451		2341147196	CAP,CHIP 125°C	CS 0603/COG/50V	470p J
C460		2336310713	CAP,MINI ELE 105°C	EC 100u/ 16V 6.3*7	P=2.5
C461		2336310713	CAP,MINI ELE 105°C	EC 100u/ 16V 6.3*7	P=2.5
C462		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C463		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C464		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C465		2346110296	CAP,CHIP 125°C	CS 0603/X7R/50V	1000p K
C466		2346168396	CAP,CHIP 125°C	CS 0603/X7R/50V	0.068u K
C467		2346168296	CAP,CHIP 125°C	CS 0603/X7R/50V	6800p K
C468		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C472		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C473		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C474		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C475		2346133296	CAP,CHIP 125°C	CS 0603/X7R/50V	3300p K
C476		2336310713	CAP,MINI ELE 105°C	EC 100u/ 16V 6.3*7	P=2.5
C477		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
CP01		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP02		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP03		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP04		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP05		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP06		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP07		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP08		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP09		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP10		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP11		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
CP12		2340733008	CAP,ARRAY P=0.8 85°C	1206Y5V 33.000PF	16V M 8P
D101	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D101	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D101	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D102	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D102	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D102	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D103	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D103	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D103	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D104	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D104	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D104	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D105	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D105	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D105	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D106	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D106	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D106	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D107	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D107	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D107	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D108	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D108	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D108	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D109	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D109	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D109	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D110	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D110	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF
D110	RC	2364600396	DIODE,SWITCH SMD	LL4148	DIODES MINIMELF
D111	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5ø	TEMIC GS08
D111	RB	2364600496	DIODE,SWITCH SMD	MM4148	GRANDE MINI MELF

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
D111	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D112	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D112	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D112	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D113	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D113	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D113	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D114	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D114	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D114	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D115	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D115	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D115	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D116	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D116	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D116	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D117	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D117	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D117	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D118	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D118	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D118	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D119	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D119	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D119	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D120	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D120	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D120	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D121	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D121	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D121	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D122	RA	2364600196	DIODE,SWITCH SMD	LL4148 3.5X1.5 $\phi$ TEMIC GS08	
D122	RB	2364600496	DIODE,SWITCH SMD	MM4148 GRANDE MINI MELF	
D122	RC	2364600396	DIODE,SWITCH SMD	LL4148 DIODES MINIMELF	
D320	RA	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	
D320	RB	2364500396	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V 0.5W ROHM	
D322	RA	2364503996	DIODE,ZENER SMD	BZV55-C5V6 PHILIPS	
D322	RB	2364500396	DIODE,ZENER SMD	RLZ5.6B 5.45-5.73V 0.5W ROHM	
I101		2365922996	IC,DIGITAL SMD	SG9884A-110 S.G.	
I102		2365808996	IC,LINEAR(SMD)	AP1117D-3.3V ATC TO-252	
I103	RA	2365808396	IC,LINEAR(SMD)	AIC1117-33CY AIC SOT-223	
I103	RB	2365809496	IC,LINEAR(SMD)	CM1117SCM-3.3V SOT223 CHAMPION	
I104	RA	2365424400	IC,DIGITAL	ST24LC21BB6 ST PSDIP8	
I104	RB	2365412600	IC,DIGITAL	24LC21A/P MICROCHIP	
I106		2365908396	IC,DIGITAL SMD	N74F14D PHILIPS SO14	
I107		2365925096	IC,DIGITAL SMD	TP6732Q TOPRO	
I108	RA	2365925596	IC,DIGITAL SMD	GLT5160L16 G-LINK TSOP	
I108	RB	2365918596	IC,DIGITAL SMD	K4S161622D-TC60 SAMSUNG TSOP50	
I108	RC	2365923896	IC,DIGITAL SMD	M12L1616A-7 ESMT	
I109		2365928396	IC,DIGITAL SMD	W78E65P PLCC44 WINBOND	
I110	RA	2365424300	IC,DIGITAL	M24C16-WBN6T ST PDIP8	
I110	RB	2365316200	IC,LINEAR	24LC16B DIP-8 MICROCHI	
I111	RA	2365808396	IC,LINEAR(SMD)	AIC1117-33CY AIC SOT-223	
I111	RB	2365809496	IC,LINEAR(SMD)	CM1117SCM-3.3V SOT223 CHAMPION	
I112		2365925296	IC,DIGITAL SMD	VX1520 VXIC	
I113	RA	2365925596	IC,DIGITAL SMD	GLT5160L16 G-LINK TSOP	
I113	RB	2365918596	IC,DIGITAL SMD	K4S161622D-TC60 SAMSUNG TSOP50	
I113	RC	2365923896	IC,DIGITAL SMD	M12L1616A-7 ESMT	
I114		2365924996	IC,DIGITAL SMD	TDA7440D ST SO28	
I115		2365328300	IC,LINEAR	TDA7266S ST	
I116	RA	2360500196	FET,P-CH SMD	SI9953DY-TI TEMIC SO-08	
I116	RB	2360500996	FET,P-CH SMD	CEM9953A SO-8 CET	
I116	RC	2360510196	FET,P-CH SMD	SI4953DY SO-8 VISHAY	
I118		2365808996	IC,LINEAR(SMD)	AP1117D-3.3V ATC TO-252	
I119	RA	2365807496	IC,LINEAR(SMD)	AIC1084-33CM AIC TO-263	

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
I119	RB	2365809196	IC,LINEAR(SMD)	CM1084SCN263	CHAMPION SO263
I120		2365925396	IC,DIGITAL SMD	SAA7118H SOT322-2	PHILIPS
I121		2365809896	IC,LINEAR(SMD)	L78M09CD	ST DPAK
I122	RA	2365904596	IC,DIGITAL SMD	N74F74D	PHILIPS S014
I122	RB	2365905796	IC,DIGITAL SMD	74F74SCX	NS S014
I122	RC	2365904796	IC,DIGITAL SMD	SN74F74DR	TI S014
I125		2365922396	IC,DIGITAL SMD	Z86129	ZILOG SOIC
I126	RA	2365805496	IC,LINEAR(SMD)	L1117 SOT-223	NIKO
I126	RB	2365811996	IC,LINEAR(SMD)	LD1117STR TO-223	ST
L101		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L102		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
L103		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
L104		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
L105		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L106		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L107		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L108		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L109		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~)	0603 300mA
L110		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~)	0603 300mA
L111		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~)	0603 300mA
L112		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L113		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L114		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L115		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L116		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L118		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L119		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L120		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L121		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L122		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L123		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L124		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L125		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L126		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L128		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L131		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L133		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L134		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L135		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L136		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L142		2253300096	RES,CHIP 1/8	RC 0805 1/8 W	0ohm J
L144		2253300096	RES,CHIP 1/8	RC 0805 1/8 W	0ohm J
L145		2379101495	FERRITE CORE	3.5X9X0.8	
L147		2370100296	COIL CHOKE SMD	10*8*5 700/100M 4A Rdc<45mOHM	
L149		2379101495	FERRITE CORE	3.5X9X0.8	
L150		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0805 200mA
L151		2370100296	COIL CHOKE SMD	10*8*5 700/100M 4A Rdc<45mOHM	
L152		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L153		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L154		2379322106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~)	0603 200mA
L155		2379330006	BEAD,HI-IMPEDANCE	Z= 30ohm(200MHZ~)	0603 300mA
L156		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L157		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L163		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L164		2253300096	RES,CHIP 1/8	RC 0805 1/8 W	0ohm J
L165		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L166		2379360106	BEAD,HI-IMPEDANCE	Z= 600ohm(200MHZ~)	0603 200mA
L170		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~)	0603 300mA
L171		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~)	0603 300mA
L172		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~)	0603 300mA
L206		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L210		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L211		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L212		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ)	0603 I=200mA
L213		2379330006	BEAD,HI-IMPEDANCE	Z= 30ohm(200MHZ~)	0603 300mA



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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
L412		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
L413		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
L414		2379822106	BEAD,HI-IMPEDANCE	Z= 220ohm(200MHZ~) 0805 200mA	
P101		2404301111	CONNECTOR	JST PH 12P SIDE P=2.0 OR EQUAL	
P102	RA	2404301003	CONNECTOR	JST XH 4P SIDE P=2.5 OR EQUAL	
P102	RB	2404390303	CONNECTOR	JWT A2501WR2-4P 4PIN P=2.5mm	
P103		2404301113	CONNECTOR	JST PH 14P SIDE P=2.0 OR EQUAL	
P104		2407442900	SOCKET	DN-508BS-4 DIN(BLK) PETER'S	
P105		2405105500	JACK,1P	RJ-1515-1W RCA(YEL) KUON YI	
P106		2405105600	JACK,1P	RJ-1515-1R RCA(RED) KUON YI	
P107		2405105400	JACK,1P	RJ-1515-1W RCA(WHITE) KUON YI	
P108		2405105200	JACK,1P	EAR PHONE 3.5 (577C) 5P SIDE	
P109	RA	2404300002	CONNECTOR	JST XH 3P TOP P=2.5 OR EQUAL	
P109	RB	2404390202	CONNECTOR	JWT A2501WV2-3P 2PIN P=2.5mm	
P110	RA	2404300001	CONNECTOR	JST XH 2P TOP P=2.5 OR EQUAL	
P110	RB	2404390201	CONNECTOR	JWT A2501WV2-2P 2PIN P=2.5mm	
P111		2405105300	JACK,1P	EAR PHONE 3.5 (284C) 5P SIDE	
P113		2407630245	SOCKET,SMD	6240-45-OR5P 0.5*45P KYOCERA	
P114		2407630230	SOCKET,SMD	6240-30-OR5P 0.5*30P KYOCERA	
P115	RA	2404301005	CONNECTOR	JST XH 6P SIDE P=2.5 OR EQUAL	
P115	RB	2404390305	CONNECTOR	JWT A2501WR2-6P 6PIN P=2.5mm	
P116	RA	2404301005	CONNECTOR	JST XH 6P SIDE P=2.5 OR EQUAL	
P116	RB	2404390305	CONNECTOR	JWT A2501WR2-6P 6PIN P=2.5mm	
P117	RA	2404390111	CONNECTOR	JWT A2001WV2-12P P=2.0 SIDE	
P117	RB	2404371011	CONNECTOR	JST PH 12P TOP P=2.0 OR EQUAL	
P118	RA	2404390103	CONNECTOR	JWT A2001WV2-4P 4PIN P=2.0mm	
P118	RB	2404371003	CONNECTOR	JST PH 4P TOP P=2.0 OR EQUAL	
P119		2407390144	SOCKET,IC	1.27mmX44PIN SMD PLCC	
Q103	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q103	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q103	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q103	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q103	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q104	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q104	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q104	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q104	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q104	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q105		2361111191	XISTOR,PNP R	2SA1020(Y)	TOSHIBA
Q106	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q106	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q106	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q106	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q106	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q107	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q107	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q107	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q107	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q107	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q108	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q108	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q108	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q108	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q108	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q109	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q109	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q109	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q109	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q109	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q110	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q110	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q110	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q110	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q110	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q111	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
Q111	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q111	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q111	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q111	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q112	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q112	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q112	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q112	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q112	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
Q113	RA	2360300396	XISTOR,NPN R SMD	MMBT3904LT1	MOTOROLA
Q113	RB	2360300596	XISTOR,NPN R SMD	MMBT3904-7	VISHAY SOT-23
Q113	RC	2360301896	XISTOR,NPN R SMD	MMBT3904LT1	LRC SOT-23
Q113	RD	2360301696	XISTOR,NPN R SMD	PMBS3904 SOT23	PHILIPS
Q113	RE	2360301296	XISTOR,NPN R SMD	MMBT3904	DIODES SOT-23
R101		2379312106	BEAD,HI-IMPEDANCE	Z=120 OHM(200MHZ) 0603 I=200mA	
R103		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~) 0603 300mA	
R107		2251207506	RES,CHIP 1/10	RC 1/10W 75.00 F T1608	
R108		2251207506	RES,CHIP 1/10	RC 1/10W 75.00 F T1608	
R110		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R111		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R112		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R114		2253233296	RES,CHIP 1/10W	RC 0603 1/10W 3.3Kohm J	
R115		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R116		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R117		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R119		2251207506	RES,CHIP 1/10	RC 1/10W 75.00 F T1608	
R120		2251207506	RES,CHIP 1/10	RC 1/10W 75.00 F T1608	
R121		2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J	
R124		2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J	
R125		2251207506	RES,CHIP 1/10	RC 1/10W 75.00 F T1608	
R126		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R130		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R131		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R133		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R134		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R136		2253233096	RES,CHIP 1/10W	RC 0603 1/10W 33 ohm J	
R137		2253233096	RES,CHIP 1/10W	RC 0603 1/10W 33 ohm J	
R138		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~) 0603 300mA	
R139		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~) 0603 300mA	
R140		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~) 0603 300mA	
R141		2253210596	RES,CHIP 1/10W	RC 0603 1/10W 1Mohm J	
R142		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R143		2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J	
R144		2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J	
R145		2253210196	RES,CHIP 1/10W	RC 0603 1/10W 100 ohm J	
R146		2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J	
R147		2253222196	RES,CHIP 1/10W	RC 0603 1/10W 220 ohm J	
R148		2253222196	RES,CHIP 1/10W	RC 0603 1/10W 220 ohm J	
R149		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R150		2253210296	RES,CHIP 1/10W	RC 0603 1/10W 1Kohm J	
R152		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R153		2253210396	RES,CHIP 1/10W	RC 0603 1/10W 10Kohm J	
R154		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R155		2253256096	RES,CHIP 1/10W	RC 0603 1/10W 56 ohm J	
R156		2253256096	RES,CHIP 1/10W	RC 0603 1/10W 56 ohm J	
R157		2235610013	RES,MTL 3	RS 3WS 10ohm J P=20	
R158		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R159		2253200096	RES,CHIP 1/10W	RC 0603 1/10W 0 ohm J	
R160		2253210596	RES,CHIP 1/10W	RC 0603 1/10W 1Mohm J	
R161		2253256096	RES,CHIP 1/10W	RC 0603 1/10W 56 ohm J	
R164		2253247296	RES,CHIP 1/10W	RC 0603 1/10W 4.7Kohm J	
R165		2253210096	RES,CHIP 1/10W	RC 0603 1/10W 10 ohm J	
R166		2253210096	RES,CHIP 1/10W	RC 0603 1/10W 10 ohm J	
R167		2253210096	RES,CHIP 1/10W	RC 0603 1/10W 10 ohm J	
R168		2253220196	RES,CHIP 1/10W	RC 0603 1/10W 200 ohm J	



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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
R169		2253210196	RES,CHIP 1/10W	RC 0603 1/10W	100 ohm J
R171		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R172		2253247296	RES,CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R173		2253247296	RES,CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R174		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R175		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R177		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R178		2379360006	BEAD,HI-IMPEDANCE	Z= 60ohm(200MHZ~)	0603 300mA
R179		2253210096	RES,CHIP 1/10W	RC 0603 1/10W	10 ohm J
R180		2253256296	RES,CHIP 1/10W	RC 0603 1/10W	5.6Kohm J
R181		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R182		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R183		2253256296	RES,CHIP 1/10W	RC 0603 1/10W	5.6Kohm J
R184		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R185		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R186		2253247396	RES,CHIP 1/10W	RC 0603 1/10W	47Kohm J
R187		2253247396	RES,CHIP 1/10W	RC 0603 1/10W	47Kohm J
R192		2253424196	RES,CHIP 1/4	RC 1/4W 240.00	J T3216
R193		2253424196	RES,CHIP 1/4	RC 1/4W 240.00	J T3216
R194		2253210296	RES,CHIP 1/10W	RC 0603 1/10W	1Kohm J
R195		2253220196	RES,CHIP 1/10W	RC 0603 1/10W	200 ohm J
R196		2253210296	RES,CHIP 1/10W	RC 0603 1/10W	1Kohm J
R197		2235610013	RES,MTL 3	RS 3WS 10ohm	J P=20
R198		2235610013	RES,MTL 3	RS 3WS 10ohm	J P=20
R199		2253210296	RES,CHIP 1/10W	RC 0603 1/10W	1Kohm J
R202		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R203		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R204		2253210196	RES,CHIP 1/10W	RC 0603 1/10W	100 ohm J
R205		2253220396	RES,CHIP 1/10W	RC 0603 1/10W	20Kohm J
R206		2253220396	RES,CHIP 1/10W	RC 0603 1/10W	20Kohm J
R207		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R208		2253210296	RES,CHIP 1/10W	RC 0603 1/10W	1Kohm J
R209		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R210		2253210296	RES,CHIP 1/10W	RC 0603 1/10W	1Kohm J
R211		2253256096	RES,CHIP 1/10W	RC 0603 1/10W	56 ohm J
R214		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R215		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R323		2253282296	RES,CHIP 1/10W	RC 0603 1/10W	8.2Kohm J
R324		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R325		2253282296	RES,CHIP 1/10W	RC 0603 1/10W	8.2Kohm J
R326		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R328		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R329		2253282296	RES,CHIP 1/10W	RC 0603 1/10W	8.2Kohm J
R330		2253282296	RES,CHIP 1/10W	RC 0603 1/10W	8.2Kohm J
R332		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R334		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R335		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R336		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R340		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R343		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R344		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R345		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R346		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R347		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R349		2253233096	RES,CHIP 1/10W	RC 0603 1/10W	33 ohm J
R350		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R353		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R355		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R356		2253256096	RES,CHIP 1/10W	RC 0603 1/10W	56 ohm J
R358		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R360		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R361		2253256196	RES,CHIP 1/10W	RC 0603 1/10W	560 ohm J
R363		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R365		2253256096	RES,CHIP 1/10W	RC 0603 1/10W	56 ohm J
R367		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
R368		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R369		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R370		2253256096	RES,CHIP 1/10W	RC 0603 1/10W	56 ohm J
R372		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R373		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R375		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R376		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R378		2253233096	RES,CHIP 1/10W	RC 0603 1/10W	33 ohm J
R380		2253233096	RES,CHIP 1/10W	RC 0603 1/10W	33 ohm J
R381		2253247296	RES,CHIP 1/10W	RC 0603 1/10W	4.7Kohm J
R382		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R383		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R384		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R386		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R387		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R389		2253233296	RES,CHIP 1/10W	RC 0603 1/10W	3.3Kohm J
R390		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R391		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R392		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R393		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R394		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R395		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R396		2253210296	RES,CHIP 1/10W	RC 0603 1/10W	1Kohm J
R397		2253210296	RES,CHIP 1/10W	RC 0603 1/10W	1Kohm J
R403		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R404		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R410		2253239196	RES,CHIP 1/10W	RC 0603 1/10W	390 ohm J
R411		2253268296	RES,CHIP 1/10W	RC 0603 1/10W	6.8Kohm J
R412		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R413		2253210196	RES,CHIP 1/10W	RC 0603 1/10W	100 ohm J
R414		2253210196	RES,CHIP 1/10W	RC 0603 1/10W	100 ohm J
R415		2253222096	RES,CHIP 1/10W	RC 0603 1/10W	22 ohm J
R416		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
R417		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R418		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R419		2253218096	RES,CHIP 1/10W	RC 0603 1/10W	18 ohm J
R420		2253256096	RES,CHIP 1/10W	RC 0603 1/10W	56 ohm J
R421		2253256096	RES,CHIP 1/10W	RC 0603 1/10W	56 ohm J
R422		2253256096	RES,CHIP 1/10W	RC 0603 1/10W	56 ohm J
R423		2253210196	RES,CHIP 1/10W	RC 0603 1/10W	100 ohm J
R425		2253212196	RES,CHIP 1/10W	R 0603 1/10W	120 ohm J
R426		2253236196	RES,CHIP 1/10W	RC 0603 1/10W	360 ohm J
RP01		2259222108	RES,CHIP NETWORKS	8P4R 1/16W 220ohm	J P=0.8
RP02		2259222108	RES,CHIP NETWORKS	8P4R 1/16W 220ohm	J P=0.8
RP03		2259222108	RES,CHIP NETWORKS	8P4R 1/16W 220ohm	J P=0.8
RP04		2259222108	RES,CHIP NETWORKS	8P4R 1/16W 220ohm	J P=0.8
RP05		2259222108	RES,CHIP NETWORKS	8P4R 1/16W 220ohm	J P=0.8
RP06		2259222108	RES,CHIP NETWORKS	8P4R 1/16W 220ohm	J P=0.8
RP07		2259247208	RES,CHIP NETWORKS	8P4R 1/16W 4.7Kohm	J P=0.8
RP08		2259222008	RES,CHIP NETWORKS	8P4R 1/16W 22ohm	J P=0.8
RP09		2259222008	RES,CHIP NETWORKS	8P4R 1/16W 22ohm	J P=0.8
RP10		2259222008	RES,CHIP NETWORKS	8P4R 1/16W 22ohm	J P=0.8
RP11		2259222008	RES,CHIP NETWORKS	8P4R 1/16W 22ohm	J P=0.8
RP13		2259200008	RES,CHIP NETWORKS	8P4R 1/16W 0ohm	J P=0.8
RP14		2259200008	RES,CHIP NETWORKS	8P4R 1/16W 0ohm	J P=0.8
RP15		2259200008	RES,CHIP NETWORKS	8P4R 1/16W 0ohm	J P=0.8
RP16		2259200008	RES,CHIP NETWORKS	8P4R 1/16W 0ohm	J P=0.8
RP17		2259200008	RES,CHIP NETWORKS	8P4R 1/16W 0ohm	J P=0.8
RP18		2259200008	RES,CHIP NETWORKS	8P4R 1/16W 0ohm	J P=0.8
U101		2202513300	PCB MULTILAYER	JC186H13U M/B FR4*4	185*170
X101		2369102901	XTAL,OSC	14.31818MHZ/49US	
X102		2369103901	XTAL,OSC	24.576MHZ/49US	
X103		2369102901	XTAL,OSC	14.31818MHZ/49US	

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
<b>CON P.C.BOARD</b>					
D702		2363704996	LED	KM-23YSGC ORG/GRN SOT-23	KING
P701		2404301109	CONNECTOR	JST PH 10P SIDE P=2.0 OR EQUAL	
S702		2403700600	SWITCH,PU-TC	SKHHLH1520-SV	
S703		2403700600	SWITCH,PU-TC	SKHHLH1520-SV	
S704		2403700600	SWITCH,PU-TC	SKHHLH1520-SV	
S705		2403700600	SWITCH,PU-TC	SKHHLH1520-SV	
S706		2403700600	SWITCH,PU-TC	SKHHLH1520-SV	
S707		2403700600	SWITCH,PU-TC	SKHHLH1520-SV	
S708		2403700600	SWITCH,PU-TC	SKHHLH1520-SV	
U701		2202511200	PCB MULTILAYER	JT186H KEY FR4*2 126X16.5 1.01	
<b>POWER P.C.BOARD</b>					
C801		2300922401	CAP,MTL MINI	X2 0.22u/275V P=15.0 M	
C802		2287247212	CAP,CER	CK45F 4700.000PF 250VAC M	
C803		2287247212	CAP,CER	CK45F 4700.000PF 250VAC M	
C804		2301522391	CAP,MTL	CF93M 0.022UF 100V J	
C805		2301510291	CAP,MTL	CF93M 1000.000PF 100V J	
C806		2270000005	CAP,SPE	B32529 MKT 0.01u/630V J P=5.0	
C807		2301522391	CAP,MTL	CF93M 0.022UF 100V J	
C808		2333410791	CAP,ELE 105°C	EC 100u/ 25V 6.3*11 P=5.0	
C809		2286222112	CAP,CER 125°C	CK45BN 220.000PF 2KV K	
C810		2333422691	CAP,ELE 105°C	EC 22u/ 25V 5*11 P=5.0	
C811		2281410491	CAP,CER	CK45F 0.100UF 50V Z	
C812		2350100314	CAP,ELE SPE	120uF/400V 150 25X25	
C813		2335322811	CAP,ELE Low Esr 105°C	EC 2200u/ 16V10*25 P=5.0 C	
C815		2335322811	CAP,ELE Low Esr 105°C	EC 2200u/ 16V10*25 P=5.0 C	
C816		2330005591	CAP,MINI ELE	EC 220u/ 16V 6.3*11 P=5.0	
C817		2335368711	CAP,ELE Low Esr 105°C	EC 680u/ 16V 8*16 P=3.5 C	
C818		2330005591	CAP,MINI ELE	EC 220u/ 16V 6.3*11 P=5.0	
C819		2301522291	CAP,MTL	CF93M 2200.000PF 100V J	
C820		2301510491	CAP,MTL	CF93M 0.100UF 100V J	
C821		2335210811	CAP,ELE Low Esr 105°C	EC 1000u/ 10V 8*16 P=3.5	
C823		2287247212	CAP,CER	CK45F 4700.000PF 250VAC M	
C824		2300922401	CAP,MTL MINI	X2 0.22u/275V P=15.0 M	
C825		2335210811	CAP,ELE Low Esr 105°C	EC 1000u/ 10V 8*16 P=3.5	
C826		2330005591	CAP,MINI ELE	ES1A152MB41020DL 1500/10 ELITE	
C828		2301547491	CAP,MTL	CF93M 0.470UF 100V J	
C829		2330005591	CAP,MINI ELE	EC 220u/ 16V 6.3*11 P=5.0	
C830		2335368711	CAP,ELE Low Esr 105°C	EC 680u/ 16V 8*16 P=3.5	
D801		2363600195	DIODE,SWITCH	1N4148 DO-35	T
D802	RA	2363230995	DIODE,RECT	1H7G	WILLAS
D802	RB	2363601595	DIODE,SWITCH	1U6G 1A/800V	PEC
D803	RA	2363230895	DIODE,RECT	1H6G	WILLAS
D803	RB	2363601495	DIODE,SWITCH	1U5G 1A/600V	PEC
D804		2363300900	DIODE,SCHOTTKY	FCH30A10 30A/100V	NI
D805	RA	2363504195	DIODE,ZENER	RD5.6EB3 5.84V-5.88V	0.5W
D805	RB	2363516995	DIODE,ZENER	MTZ5.6C 5.61-5.91V	ROHM
D805	RC	2363517195	DIODE,ZENER	TZX5V6E 5.6-5.9V	TELEFUNKEN
D806	RA	2363230795	DIODE,RECT	1H5G	WILLAS
D806	RB	2363601395	DIODE,SWITCH	1U4G 1A/400V	PEC
D808	RA	2363504595	DIODE,ZENER	HZ7-A3 6.6V-6.9V 0.5W HITACHI	
D808	RB	2363506815	DIODE,ZENER	BZX79C6V8 6.6-6.9 0.5W PHILIPS	
D809	RA	2363506395	DIODE,ZENER	HZ15-2 14.5-15.1V 0.5W HITACHI	
D809	RB	2363502295	DIODE,ZENER	RD15EB3 14.35V-15.09V 0.5W NEC	
D809	RC	2363515795	DIODE,ZENER	BZX79C15 13.8-15.6V PHILIPS	
D810		2368502400	RECT,BRIDGE	GBU4K 4A/800V	
D811	RA	2363230895	DIODE,RECT	1H6G	WILLAS
D811	RB	2363601495	DIODE,SWITCH	1U5G 1A/600V	PEC
D812	RA	2363300716	DIODE,SCHOTTKY	SR540-UK1 5A/40V	WILLAS
D812	RB	2363300816	DIODE,SCHOTTKY	SB540(F76) 5A/40V	PEC

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
F801	RA	2213125207	FUSE	FUSE 2.5A/250V 21502.5	LITTEL
F801	RB	2213125211	FUSE	FUSE 2.5A/250V SG501302.5	PICO
F801	RC	2213125205	FUSE	FUSE 2.5A/250V S505	BUSSMANN
F802	RA	2407200791	HOLDER,FUSE	FC-05C	
F802	RB	2407200991	HOLDER,FUSE	CQ-05T (5mm DIA FUSE)	
F803	RA	2213235295	FUSE MICRO	20N3500FS 3.5A/125V	PICO
F803	RB	2213235205	FUSE MICRO	R25103.5 3.5A/125V(T52)	LITTEL
I801		2365327800	IC,LINEAR	TEA1533AP SOT97-1	PHILIPS
I802	RA	2362401800	PHOTO COUPLR	TLP621(D4-GR-LF2)	TOSHIBA
I802	RB	2362401600	PHOTO COUPLR	TLP721F(D4-GR)	TOSHIBA
I803	RA	2365307391	IC,LINEAR	TL431CLP	MOTOROLA
I803	RB	2365327691	IC,LINEAR	CM431BCN	CHAMPION
I803	RC	2365321991	IC,LINEAR	KA431AZTA TO-92	FAIRCHILD
I804		2365327900	IC,LINEAR	SI-8050S(LF1101)	SANKEN
L801		2371111900	COIL,CHOKE	250uH +-7%	
L802		2379101495	FERRITE CORE	3.5X9X0.8	
L804		2371154600	COIL,CHOKE	JD176 5.2UH 15.5T(REF)	
L805		2371158100	COIL,CHOKE	JC186H UT-20	
L806		2371106900	COIL,CHOKE	JC186H 70uH 42.5TS(REF)LI SHIN	
L807		2379101495	FERRITE CORE	3.5X9X0.8	
L808		2379101595	FERRITE CORE	3.5X4.5X0.8	
L809		2379101595	FERRITE CORE	3.5X4.5X0.8	
L810		2371107000	COIL,CHOKE	JC186H 28uH 29TS(REF) LAE	
L811		2379101595	FERRITE CORE	3.5X4.5X0.8	
P801		2404339301	CONNECTOR	LEOCO 3951-01(V) 2PIN P=3.96	
P802	RA	2404390206	CONNECTOR	JWT A2501WV2-7P 7PIN P=2.5mm	
P802	RB	2404338006	CONNECTOR	LEOCO 2521 7PIN P=2.5	
P803		2427309035	LUG W/WIRE	B-IN*2 UL1617#22 120L BLK	
Q801	RA	2361609200	FET,N-CH	AP09N70I-H TO-220CFM(I)	APEC
Q801	RB	2361607700	FET,N-CH	FS10KM-14A 10A/700V	MITSUBISHI
Q801	RC	2361610100	FET,N-CH	2SK3677-01MR TO-220F	FUJI
Q802		2361301291	XISTOR,NPN R	2SC2120(Y)	TOSHIBA
Q803	RA	2361316191	XISTOR,NPN R	2PC945P	PHILIPS
Q803	RB	2361313691	XISTOR,NPN R	KSC945C-G	FAIRCHILD
Q803	RC	2361302591	XISTOR,NPN R	2SC945(P) TO-92	NEC
Q804	RA	2361316191	XISTOR,NPN R	2PC945P	PHILIPS
Q804	RB	2361313691	XISTOR,NPN R	KSC945C-G	FAIRCHILD
Q804	RC	2361302591	XISTOR,NPN R	2SC945(P) TO-92	NEC
R801		2253447496	RES,CHIP 1/4	RC 1206 1/4 W	470Kohm J
R802		2235410406	RES,MTL 1	RS 1W 100Kohm	J P=7.0
R803		2436101012	VARISTOR	SIOV-S14K320 1465	10V
R804		2235410406	RES,MTL 1	RS 1W 100Kohm	J P=7.0
R805		2253410996	RES,CHIP 1/4	RC 1206 1/4 W	1ohm J
R806		2253447196	RES,CHIP 1/4	RC 1206 1/4 W	470ohm J
R807		2253410096	RES,CHIP 1/4	RC 1206 1/4 W	10ohm J
R810		2241215816	RES,WIR 2	RW 2WS 0.15 ohm	J P=7.0
R811		2251418726	RES,CHIP 1/4	RC 1206 1/4 W	18.7Kohm F
R812		2251448716	RES,CHIP 1/4	RC 1206 1/4 W	4.87Kohm F
R813		2253410196	RES,CHIP 1/4	RC 1206 1/4 W	100ohm J
R814		2251433026	RES,CHIP 1/4	RC 1206 1/4 W	33Kohm F
R815		2233412195	RES,CBN 1/4 S	RD 1/4WS	120.00 J
R816		2251410026	RES,CHIP 1/4	RC 1206 1/4 W	10Kohm F
R817		2253447296	RES,CHIP 1/4	RC 1206 1/4 W	4.7Kohm J
R818		2253468396	RES,CHIP 1/4	RC 1206 1/4 W	68Kohm J
R819		2253447296	RES,CHIP 1/4	RC 1206 1/4 W	4.7Kohm J
R820		2253447396	RES,CHIP 1/4	RC 1206 1/4 W	47Kohm J
R821		2251430026	RES,CHIP 1/4	RC 1206 1/4 W	30Kohm F
R822		2251413036	RES,CHIP 1/4	RC 1206 1/4 W	130Kohm F
R823		2253410296	RES,CHIP 1/4	RC 1206 1/4 W	1Kohm J
R826		2253412396	RES,CHIP 1/4	RC 1206 1/4 W	12Kohm J
R833		2253447496	RES,CHIP 1/4	RC 1206 1/4 W	470Kohm J
R840		2229400512	THERMISTOR,NTC	NTC N13SP010M UPPERMOST	
R865		2251415006	RES,CHIP 1/4	RC 1206 1/4 W	150 ohm F
T801		2374209500	XFORMER,POWR	JC186H PQ-2625	
U801		2202121000	PC BOARD	JC186H P/B CAM1 150*76 V1.00	

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
<b>TUNER P.C.BOARD</b>					
C501		2333310713	CAP,ELE 105°C	EC 100u/ 16V 6.3*11	P=2.5
C503		2333310713	CAP,ELE 105°C	EC 100u/ 16V 6.3*11	P=2.5
C504		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C506		2341147096	CAP,CHIP 125°C	CS 0603/COG/50V	47p J
C507		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C508		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C509		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C510		2336610513	CAP,MINI ELE 105°C	EC 1u/ 50V 4*7	P=2.5
C512		2325310636	CAP,TAN 85°C	10uF 16V M	3.2*1.6*1.6
C513		2320647513	CAP,ELE NP 105°C	EC 4.7u/ 50V 5*11	P=2.5
C514		2320647513	CAP,ELE NP 105°C	EC 4.7u/ 50V 5*11	P=2.5
C515		2325333526	CAP,TAN 85°C	3.3uF 16V M	3.2*1.6*1.6
C516		2346156296	CAP,CHIP 125°C	CS 0603/X7R/50V	5600p K
C517		2346447396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.047u Z
C518		2346412396	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.012u Z
C519		2346127296	CAP,CHIP 125°C	CS 0603/X7R/50V	2700p K
C520		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C521		2320647513	CAP,ELE NP 105°C	EC 4.7u/ 50V 5*11	P=2.5
C522		2336647513	CAP,MINI ELE 105°C	EC 4.7u/ 50V 4*7	P=2.5
C523		2320647513	CAP,ELE NP 105°C	EC 4.7u/ 50V 5*11	P=2.5
C524		2336310613	CAP,MINI ELE 105°C	EC 10u/ 16V 4*7	P=2.5
C525		2336647513	CAP,MINI ELE 105°C	EC 4.7u/ 50V 4*7	P=2.5
C526		2346410496	CAP,CHIP 85°C	CS 0603/Y5V/50V	0.1u Z
C527		2333310713	CAP,ELE 105°C	EC 100u/ 16V 6.3*11	P=2.5
I501		2416901100	UV TUNER	4136FY5X7708(NTSC)	TEMIC
I502	RA	2365809596	IC,LINEAR(SMD)	L78M05TLL-FA	SANYO
I502	RB	2365809796	IC,LINEAR(SMD)	L78M05CDT	ST DPAK
I503		2365424500	IC,DIGITAL	CXA2104S	SONY
L501		2379820196	BEAD,HI-IMPEDANCE	Z= 200ohm(100MHZ~)	0805 200mA
L502		2379820196	BEAD,HI-IMPEDANCE	Z= 200ohm(100MHZ~)	0805 200mA
L503		2379820196	BEAD,HI-IMPEDANCE	Z= 200ohm(100MHZ~)	0805 200mA
P501		2404301111	CONNECTOR	JST PH 12P SIDE	P=2.0 OR EQUAL
R501		2253210196	RES,CHIP 1/10W	RC 0603 1/10W	100 ohm J
R502		2235522013	RES,MTL 2	RS 2WS 22ohm	J P=15.0
R503		2253210196	RES,CHIP 1/10W	RC 0603 1/10W	100 ohm J
R512		2253220296	RES,CHIP 1/10W	RC 0603 1/10W	2Kohm J
R514		2253222196	RES,CHIP 1/10W	RC 0603 1/10W	220 ohm J
R515		2253239296	RES,CHIP 1/10W	RC 0603 1/10W	3.9Kohm J
R516		2253224296	RES,CHIP 1/10W	RC 0603 1/10W	2.4Kohm J
R517		2253222196	RES,CHIP 1/10W	RC 0603 1/10W	220 ohm J
R518		2253210496	RES,CHIP 1/10W	RC 0603 1/10W	100Kohm J
R519		2253210596	RES,CHIP 1/10W	RC 0603 1/10W	1Mohm J
R520		2253230296	RES,CHIP 1/10W	RC 0603 1/10W	3Kohm J
R521		2253233296	RES,CHIP 1/10W	RC 0603 1/10W	3.3Kohm J
R522		2251262026	RES,CHIP 1/10	RC 0603 1/10W	62Kohm F
R523		2253200096	RES,CHIP 1/10W	RC 0603 1/10W	0 ohm J
R524		2253210396	RES,CHIP 1/10W	RC 0603 1/10W	10Kohm J
U501		2202509800	PCB MULTILAYER	166H12U TUN FR4*4	90*60.5 1.00

## IR P.C.BOARD

I701	2419300900	RECEIV BLOCK	CAM-1338T	CORE-AMP
P702	2404301102	CONNECTOR	JST PH 3P SIDE	P=2.0 OR EQUAL
U702	2202121800	PC BOARD	JC186H12J IR	41*13

## YPBPR P.C.BOARD

C721	2341156096	CAP,CHIP 125°C	CS 0603/COG/50V	56p J
C722	2341156096	CAP,CHIP 125°C	CS 0603/COG/50V	56p J
C723	2341156096	CAP,CHIP 125°C	CS 0603/COG/50V	56p J
P724	2404301103	CONNECTOR	JST PH 4P SIDE	P=2.0 OR EQUAL
P725	2405313101	RCA JACK	RJ-1126 1T3P	JYE TAI

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LOC NO.	SOURCE	PART NO.	DESCRIPTION	SPECIFICATION	REMARK
U703		2202123300	PC BOARD	C166H12U YCbCr CEM1 80*25 1.00	

## OTHERS

P703		2427307022	LUG W/WIRE	3.2øRING*2 1007#18 BK 50L	
P704		2427307022	LUG W/WIRE	3.2øRING*2 1007#18 BK 50L	
P910		2419208100	CONT BLOCK	JC186 GATEWAY PANTONE 8002	
P913		2427744201	CABLE	F PLUG 4.2M GE96750	
P915		2427701890	CABLE	RCA3P(Y/R/W)2562#26 1.8M 96750	
P916		2427754090	CABLE	FEEDBACK CABLE AWG26x2F L=4.0M	
P920		2427412659	WIRE HARNESS	6/7P H/H 1007#24+CORE 140L 2.5	
P930		2427412692	WIRE HARNESS	4P H/H 1061#28 180L P=2.0	
P931		2427412687	WIRE HARNESS	14/3+10 P 1061#28+120C 250/260	
P932		2427412698	WIRE HARNESS	6P H/H 1007#26+120C 270L 2/2.5	
P933		2427501153	I/O CABLE	D15/C12 2919(3+6) 240L BLK	
P934		2427412713	WIRE HARNESS	12P H/H 1007#26+168C L=120mm	
P935		2427412699	WIRE HARNESS	2+3/2+2P 1007#26+CORE 380/380	
P940		2391303081	SPEAKER ASS'Y	3W 8ohm 150*35*T16.5 M.S	
P951		2427130046	POWER CORD	USA WALL 1.83M BLACK	
P973		2379105900	FERRITE CORE	31*5*12AD	
P974		2379105900	FERRITE CORE	31*5*12AD	
P980		2420310001	FFC CABLE	FFC 30P*0.5mm*100L	
P981		2420315451	FFC CABLE	FFC 150mm*0.5*45P	
P986		2407000300	SOCKET,ASSY	AC INLET ASS'Y 1015#18 L=265	
U901		2414501200	INVERTER	PLCD1017401 EMAX	
V901		2212002900	LCD PANEL	CLAA181XA01F CPT	