

Service
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Service Manual

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3141 785 33242

1.0 TECHNICAL SPECIFICATION

General

Dimensions (W x H x D): 255 x 170 x 24.5 mm
 Bear Unit Weight: 1.4 kg +/- 5%
 Power supply:
 Supply voltage AC 100~240V (adapter)
 DC 12V (battery)
 Supply Power consumption 24W
 Operating Temp & RH 0~ 45degC / 30-90% RH
 Audio System
 Output voltage 1kHz: 2+/-0.2V
 THD 20-20kHz (%): 0.03% typical
 Dynamic range 1kHz >/=80dB
 Signal/Noise ratio: >/=80dB
 Frequency response (20-20kHz): +1dB/-0.5dB
 Channel Separation 1kHz >=85dB
 Channel Balance 1kHz 1dB

Playback disc type: DVD, Picture-CD, SVCD, Video CD, MP3-CD, CD-R/CD-RW, WMA-CD, DVD-R, DVD-RW, DVD+R, DVD+RW
 Video Playback Format: DVD / VCD / SVCD / CD / JPEG / MPEG / DivX3,4,5,6
 Audio Playback Format: CD/MP3, MP3-DVD,WMA, DVD DivX3,4,5,6
 Disc Diameter 12cm

Pixel specification

Max. 0 bright-dot & max. 3 dark-dots

Current consumption

DC Supply	
Standby Power off	5mA
Battery	
Voltage	7.4V
Capacity	2600mAH
Battery playtime	<6hr
Charging time	>11hr
Standby Power off	<0.75W

Headphone out (headphone output load 2x16 ohm)

Maximum output power: 1.5mW
 Frequency response: +/-3dB
 SNR (A-wght): >70dB
 THD (0.2-20kHz): 3%
 Left-Right Channel Separation: >/=50dB
 Left-Right Channel Balance: </=1dB

Supported disc type

Video Playback Formats:



Audio Playback Formats:



1.0 TECHNICAL SPECIFICATION

Factory Service Mode (FSM)

Procedure to change region code of your DVD Portable

1. Power ON the DVD player and do not insert DISC inside player
2. Press the remote button in the sequence as 9 -> 6 -> 5 -> 3
The LCD display showed the existing region code.
3. Press ▲ (navigation up) or ▼ (navigation down) repeatedly to select the number from 0 to 6.
4. Then press OK to confirm your region code.
5. Refer below table for your region code setting

Region Code	Region
1	USA
2	EUROPE
3	ASIA PACIFIC
4	AUSTRALIA, NEW ZEALAND, LATAM
5	RUSSIA, INDIA
6	CHINA

Select "0" setting = Region Free (confidential)

Procedure for SW upgrade

1. Download the "PHILIPS.BIN" file from the Philips support site
2. Unzip the file, Drag-n-drop to USB drive
3. Power on PET836 with AC/DC adapter
4. Insert the USB drive to USB port of the main set
5. The set will detect the upgraded SW
6. Press "OK" to confirm and proceed
7. The set will reset once finished upgrade

Warning: Do not unplug the AC adapter during firmware upgrade to prevent flash corrupt of the set!!

Procedure to check SW version of your DVD Portable

1. Power on the DVD player and do not insert DISC inside player
2. Press the remote control in the sequence as 3->3->0->8
3. SW version will be displayed as: YYYY-MM-DD

2.0 SAFETY INSTRUCTIONS

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD). Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation. Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfilez le bracelet serti d'une résistance de sécurité. Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

D WARNUNG

Alle ICs und viele andere Halbleiter sind empfindlich gegenüber elektrostatischen Entladungen (ESD). Unsorgfältige Behandlung im Reparaturfall kann die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes. Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

ESD



NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD). Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat. Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD). La loro longevità potrebbe essere fortemente ridotta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza. Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisés les pièces de rechange identiques à celles spécifiées.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

"After servicing and before returning set to customer perform a leakage current measurement test from all exposed metal parts to earth ground to assure no shock hazard exist. The leakage current must not exceed 0.5mA."



GB Warning !

Invisible laser radiation when open.
Avoid direct exposure to beam.

S Varning !

Osynlig laserstrålning när apparaten är öppnad och spärrar är urkopplad. Beträkta ej strålen.

SF Varoitus !

Avatussa laitteessa ja suojalukituksen ohitettaessa olet alltiina näkymättömälle laserisäteilylle. Älä katso säteeseen!

DK Advarse !

Usynlig laserstråling ved åbning når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

2.1 ESD PROTECTION

- レンズには絶対に触れないでください。
- DO NOT TOUCH THE LENS.
- LINSE NICHT BRÜHREN.
- NE PAS TOUCHER LA LENTILLE.

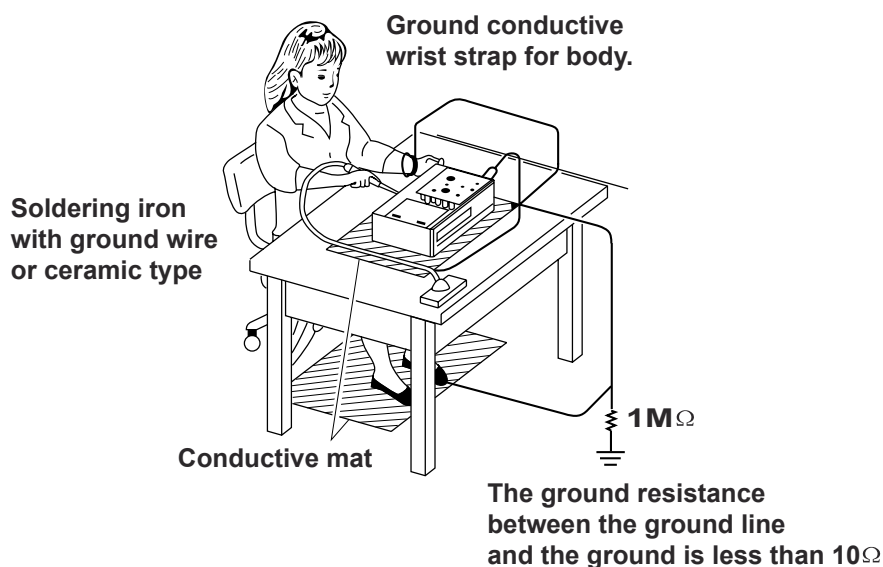
When the power supply is being turned on, you may not remove this laser cautions label. If it removes, radiation of laser may be received.

PREPARATION OF SERVICING

Pickup Head consists of a laser diode that is very susceptible to external static electricity.

Although it operates properly after replacement, if it was subject to electrostatic discharge during replacement, its life might be shortened. When replacing, use a conductive mat, soldering iron with ground wire, etc. to protect the laser diode from damage by static electricity.

And also, the LSI and IC are same as above.



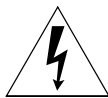
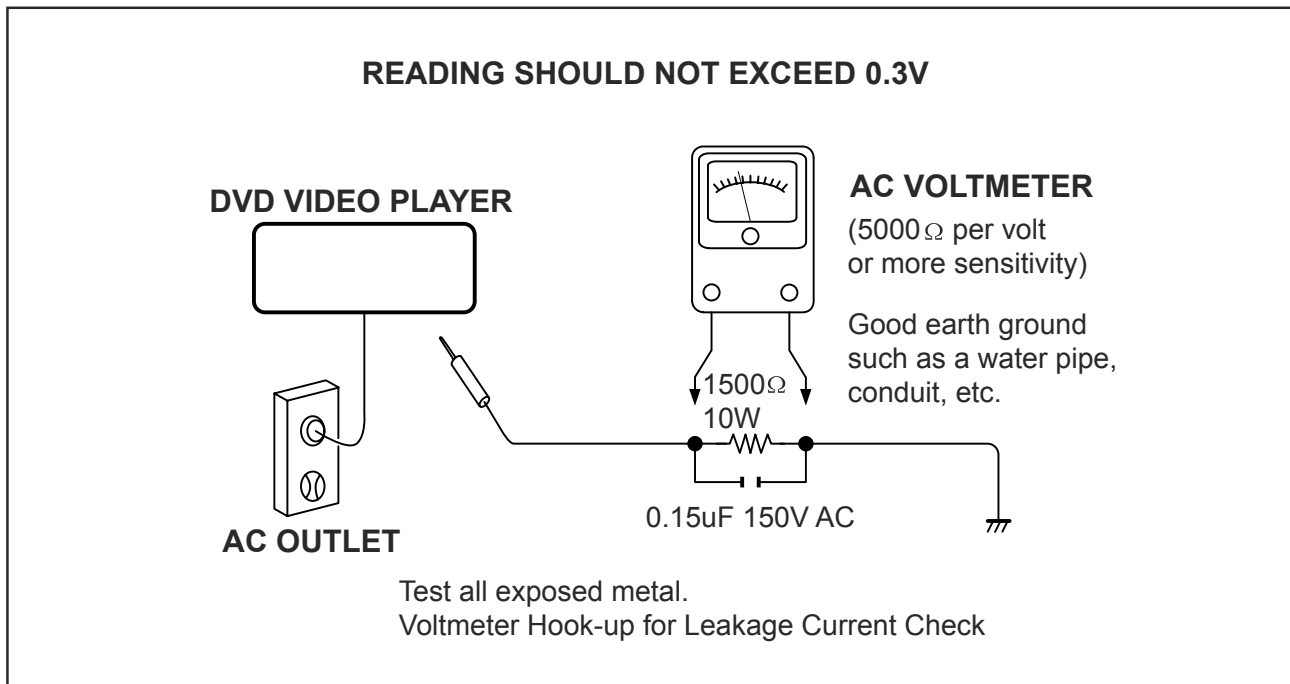
SAFTY NOTICE

SAFTY PRECAUTIONS

LEAKAGE CURRENT CHECK

Plug the AC line cord directly into a 120V AC outlet (do not use an isolation transformer for this check). Use an AC voltmeter, having 5000Ω per volt or more sensitivity. Connect a 1500Ω 10W resistor, paralleled by a $0.15\mu\text{F}$ 150V AC capacitor between a known good earth ground (water pipe, conduit, etc.) and all exposed metal parts of cabinet (antennas, handle bracket, metal cabinet screwheads, metal overlays, control shafts, etc.).

Measure the AC voltage across the 1500Ω resistor. The test must be conducted with the AC switch on and then repeated with the AC switch off. The AC voltage indicated by the meter may not exceed 0.3V. A reading exceeding 0.3V indicates that a dangerous potential exists, the fault must be located and corrected. Repeat the above test with the DVD VIDEO PLAYER power plug reversed. NEVER RETURN A DVD VIDEO PLAYER TO THE CUSTOMER WITHOUT TAKING NECESSARY CORRECTIVE ACTION.

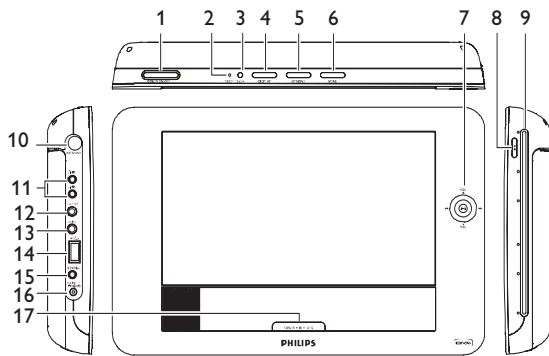


The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

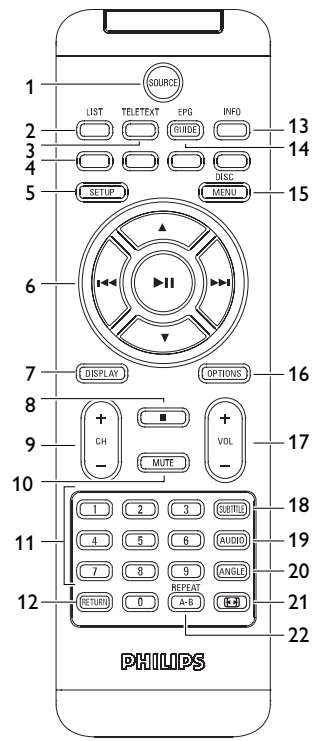


The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

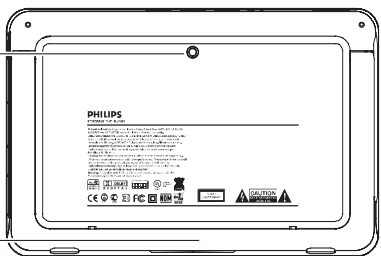
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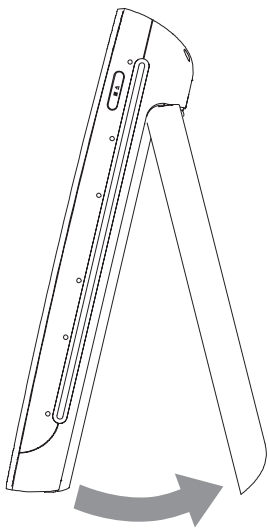
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18



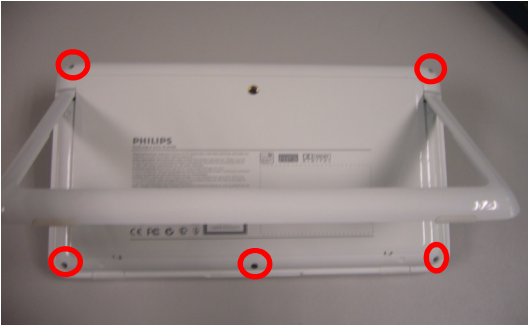

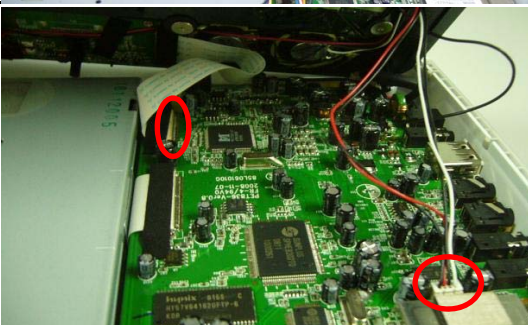

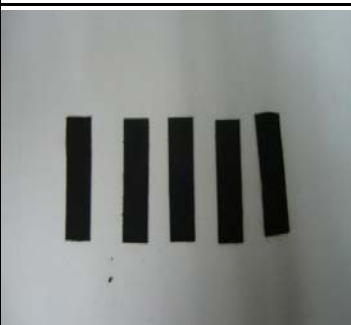
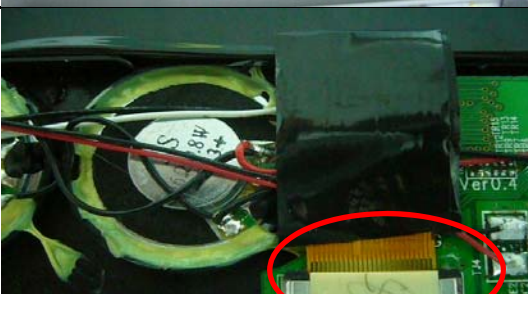
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4.0 MECHANICAL INSTRUCTION

Disassembly Procedure on PET836	Spare parts	
	<p>Remove five screws on back cabinet to separate top cabinet and back cabinet.</p>	<p>screws 5pcs</p>
	<p>Generally open the front cabinet.</p>	
	<p>Disassemble FPC and connector.</p>	
	<p>Remove five fabrics.</p>	
	<p>Disassemble FPC of TFT-LCD from turn board.</p>	



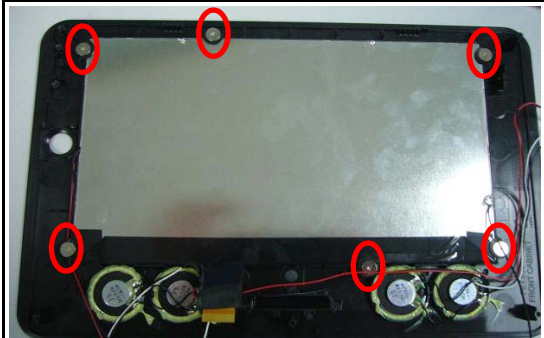
Remove six screws on turn board and jogging board. Disassemble connector of TFT-LCD from turn board.

screws 6pcs



Remove two screws on eject board.

screws 2pcs

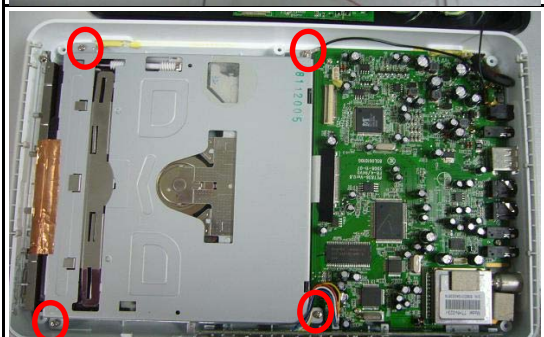


Remove six screws and sponges on TFT-LCD.

screws 6pcs

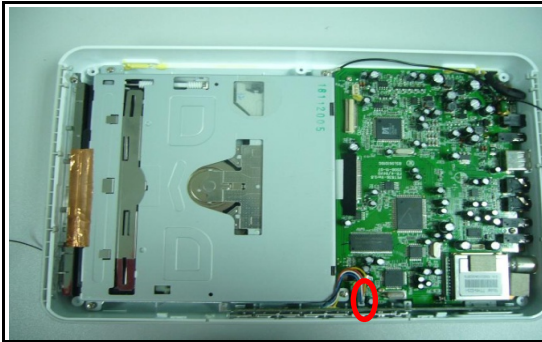


Remove TFT-LCD and disassembly of top cabinet is ok.

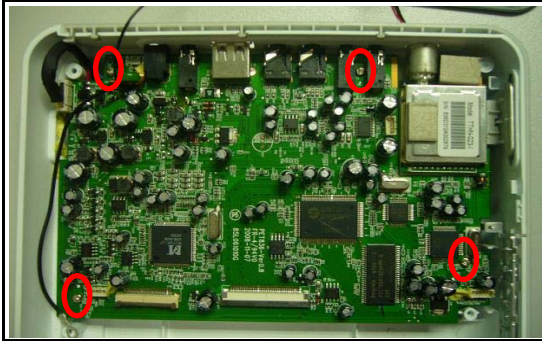


Remove four screws.

screws 4pcs



Remove top keypad board from back cabinet and disassemble FFC from main board.



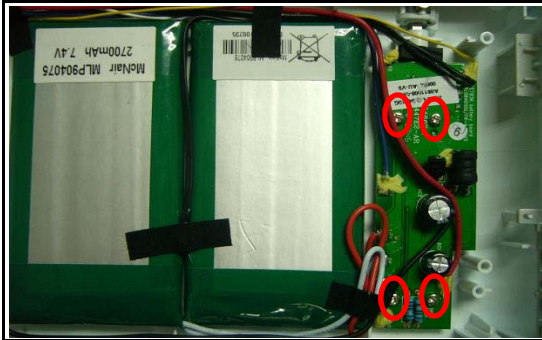
Remove four screws on main board.

screws 4pcs



Remove four screws on plate metal EMI.

screws 4pcs



Remove four screws on PCB of battery and use tool to remove battery from back cabinet.

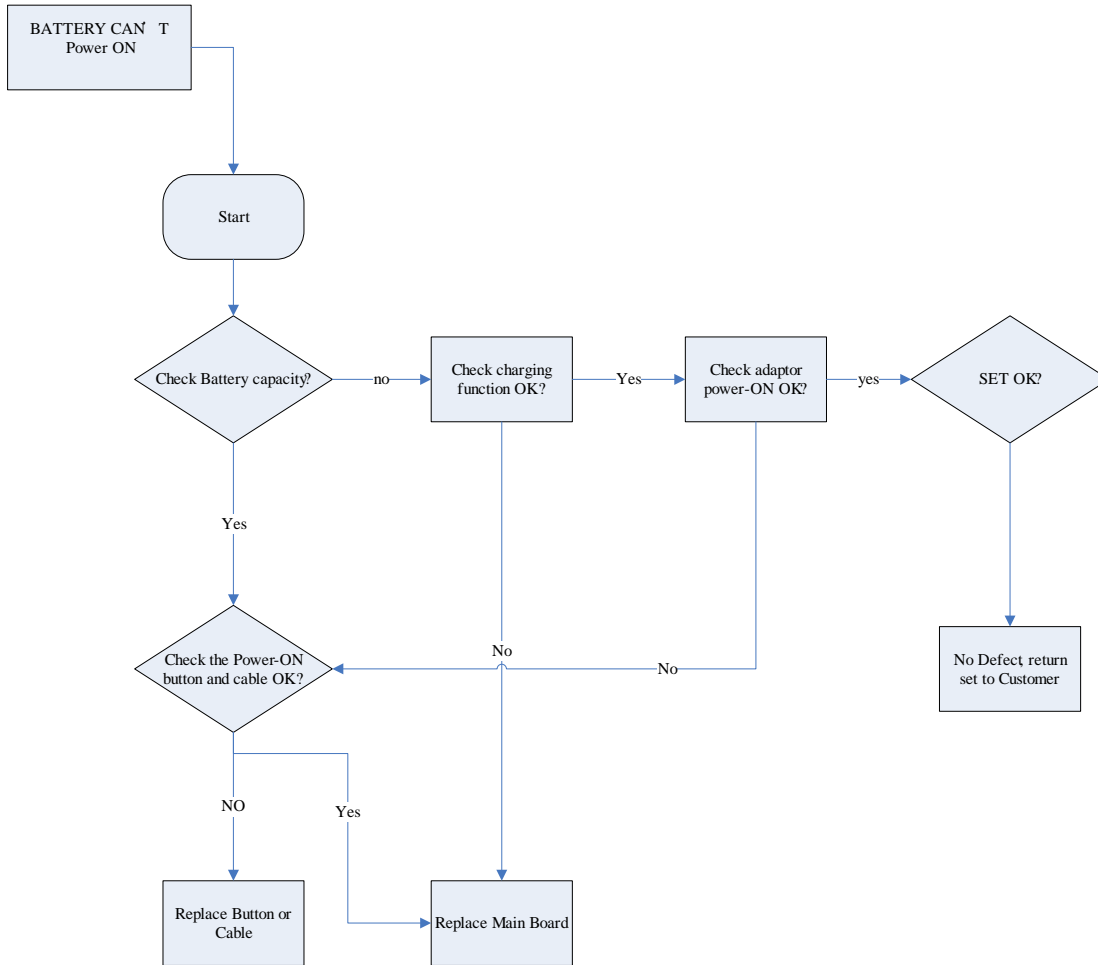
screws 4pcs



Finally,we will get the back cabinet.

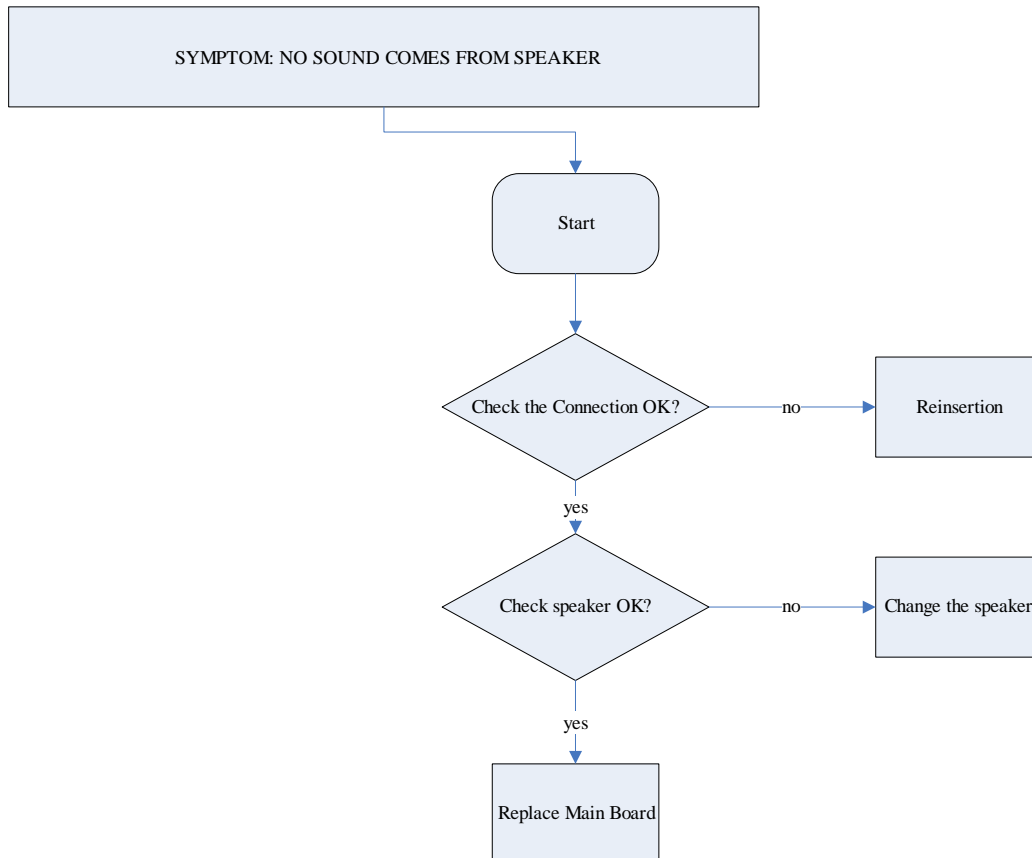
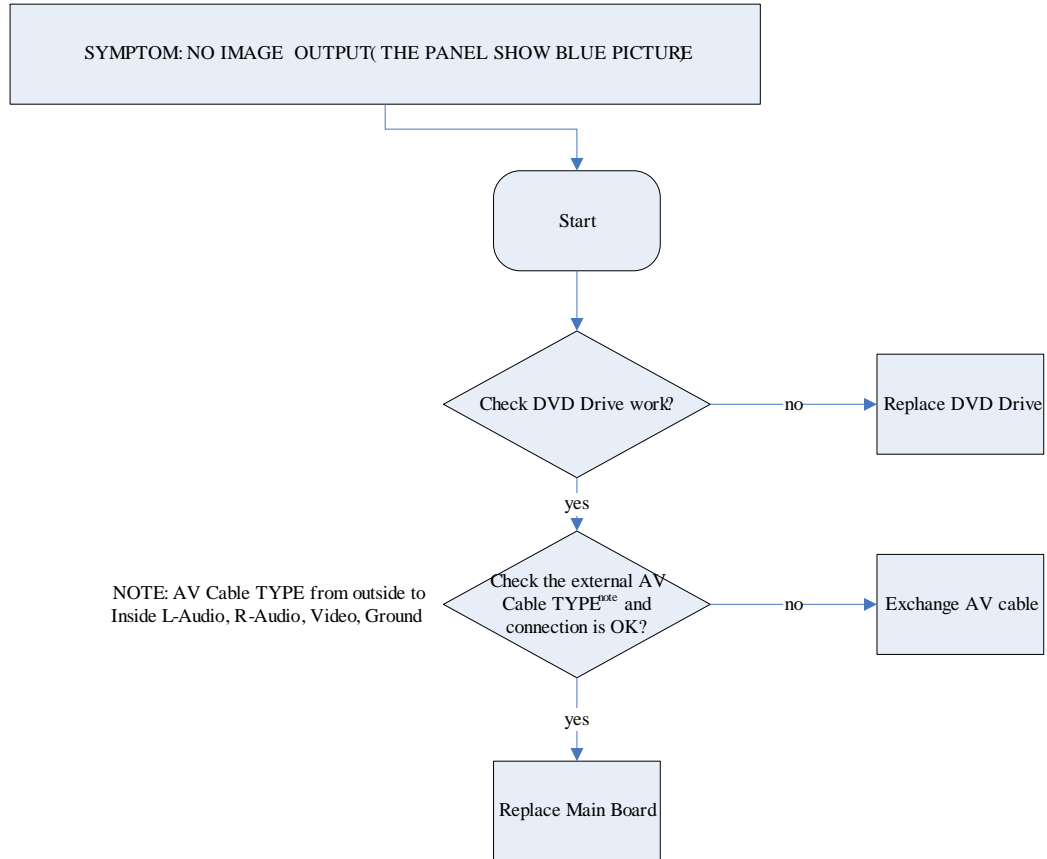
5.0 TROUBLESHOOTING

SYMPTOM: BATTERY NO POWER



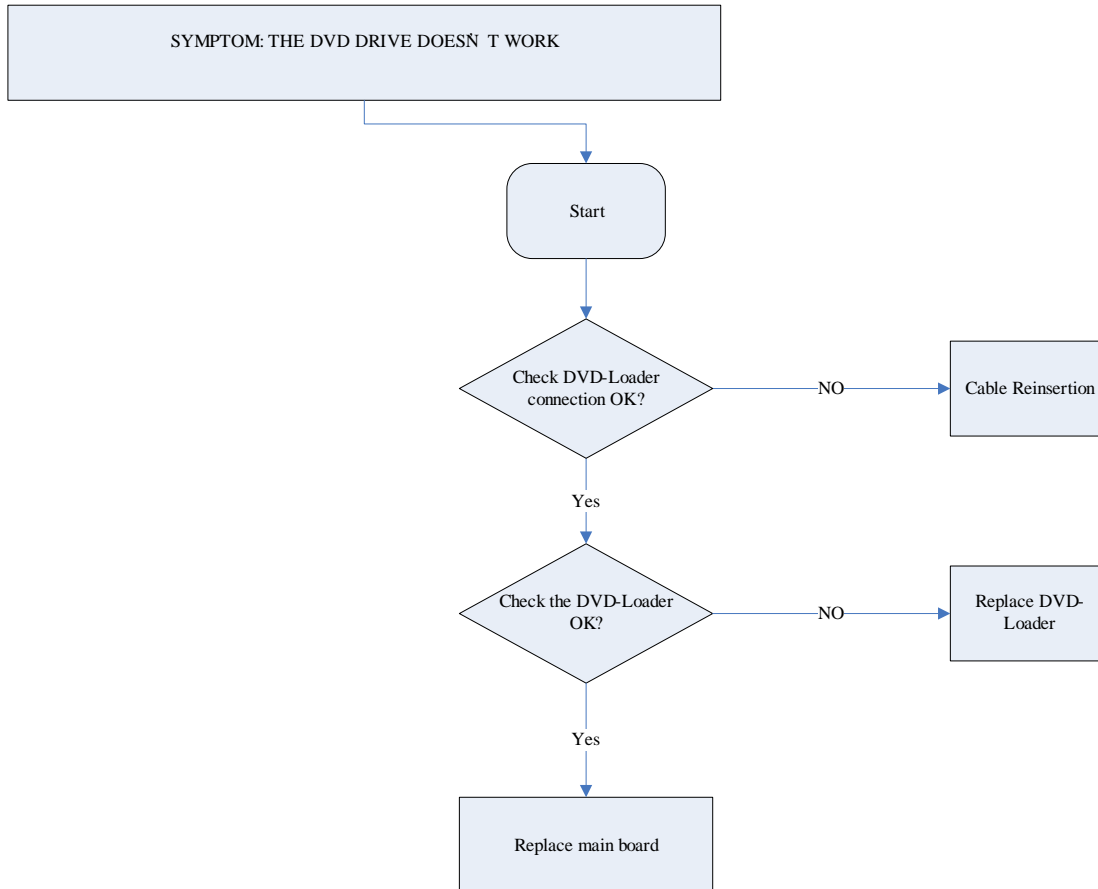
5.0 TROUBLESHOOTING

SYMPTOM: NO IMAGE / NO SOUND



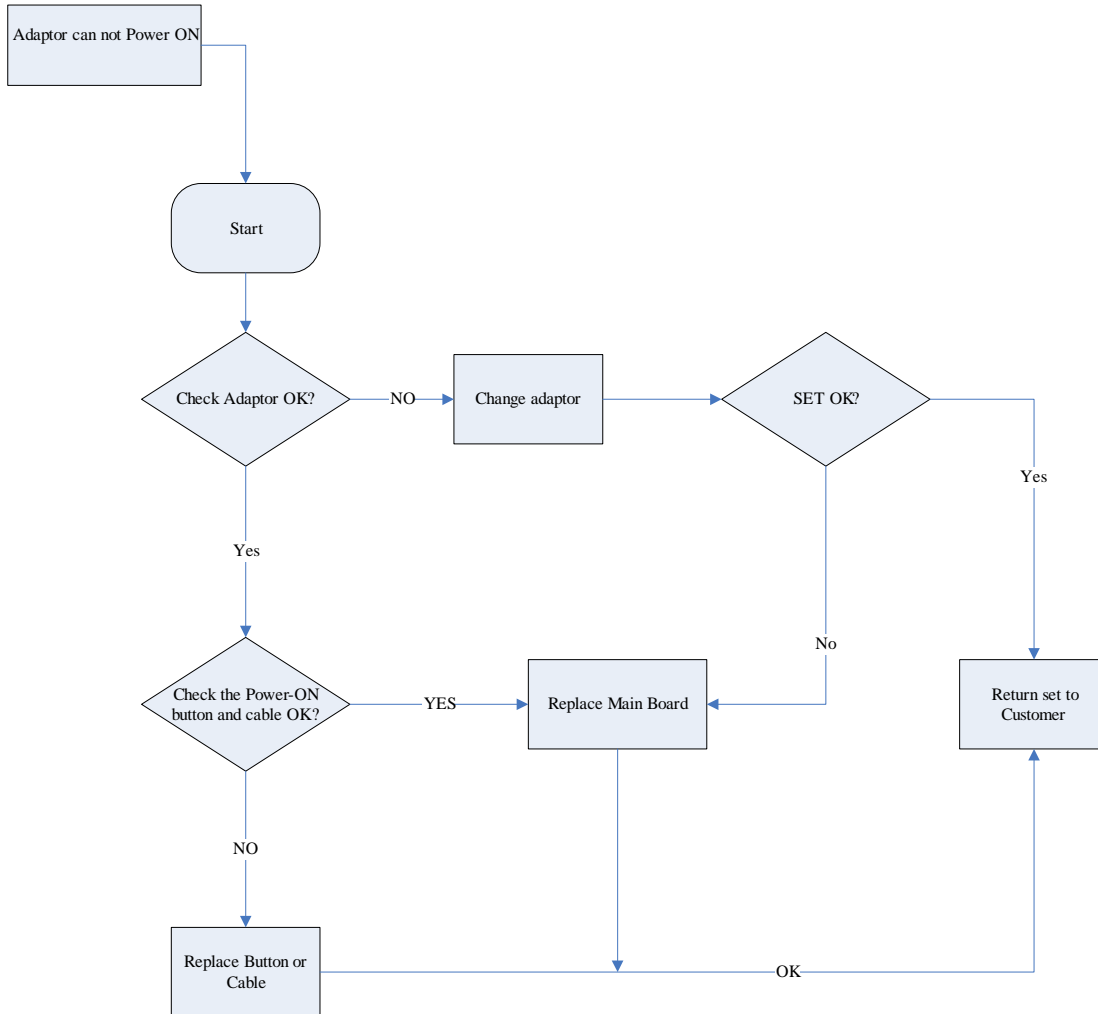
5.0 TROUBLESHOOTING

SYMPTOM: THE DVD DRIVE DOES NOT WORK



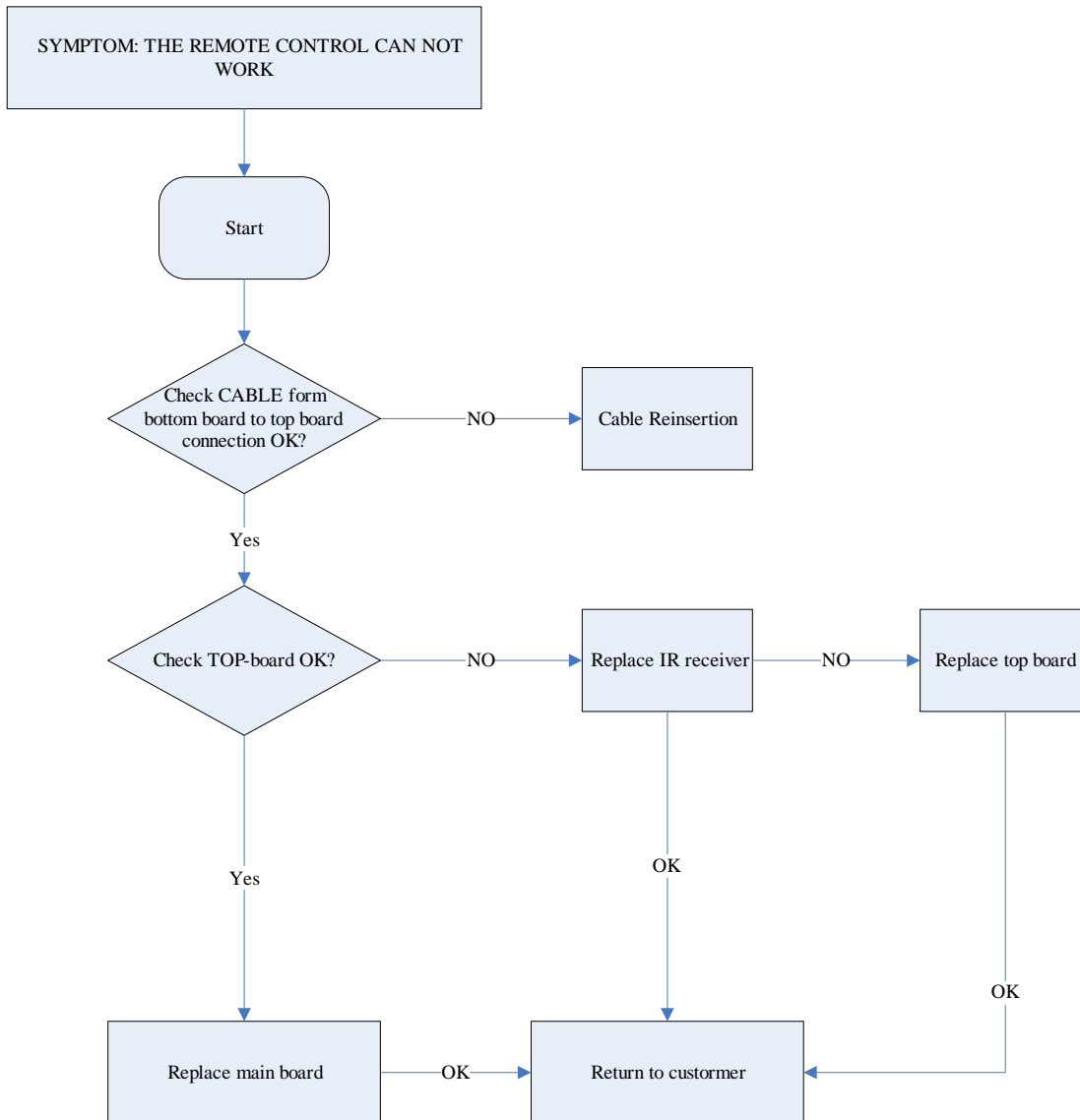
5.0 TROUBLESHOOTING

SYMPTOM: ADAPTOR CANNOT POWER ON



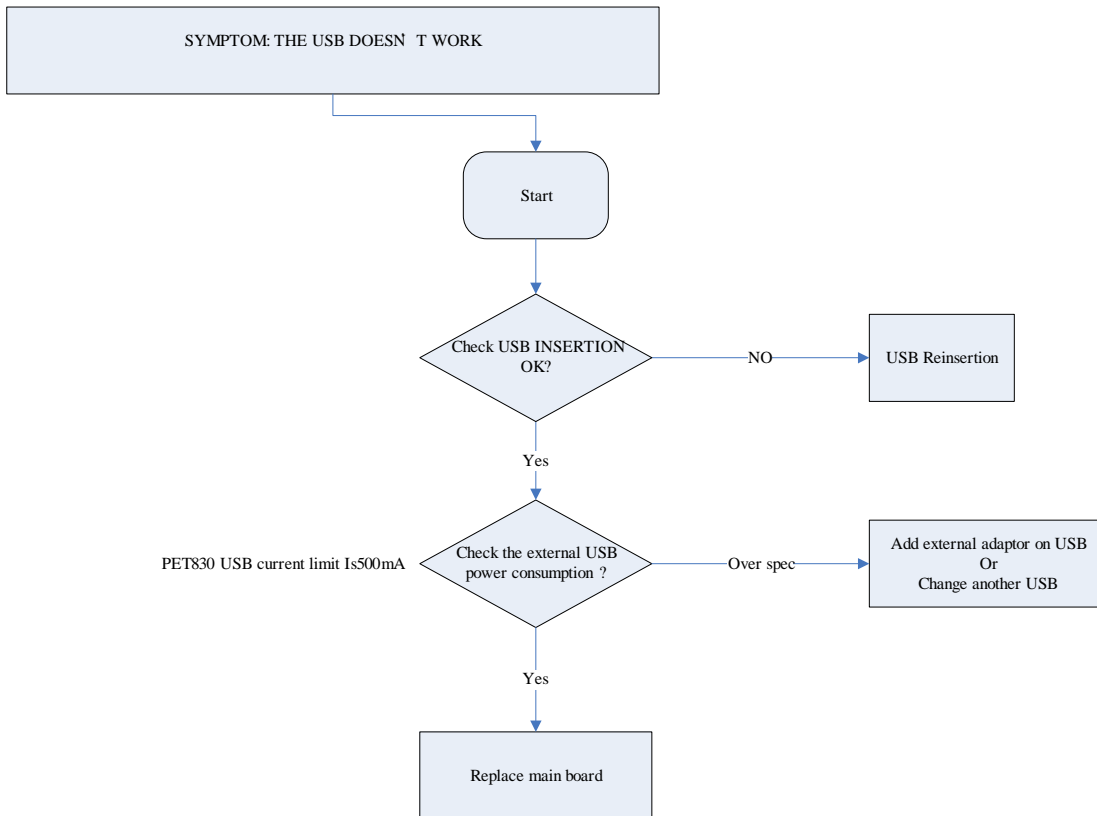
5.0 TROUBLESHOOTING

SYMPTOM: REMOTE CONTROL CANNOT WORK

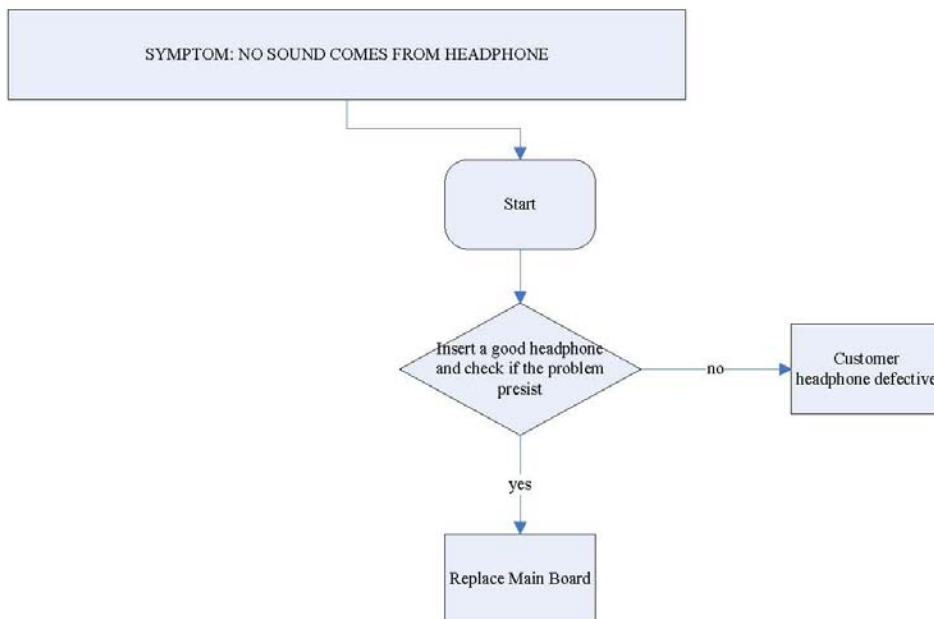


5.0 TROUBLESHOOTING

SYMPTOM: USB CANNOT WORK

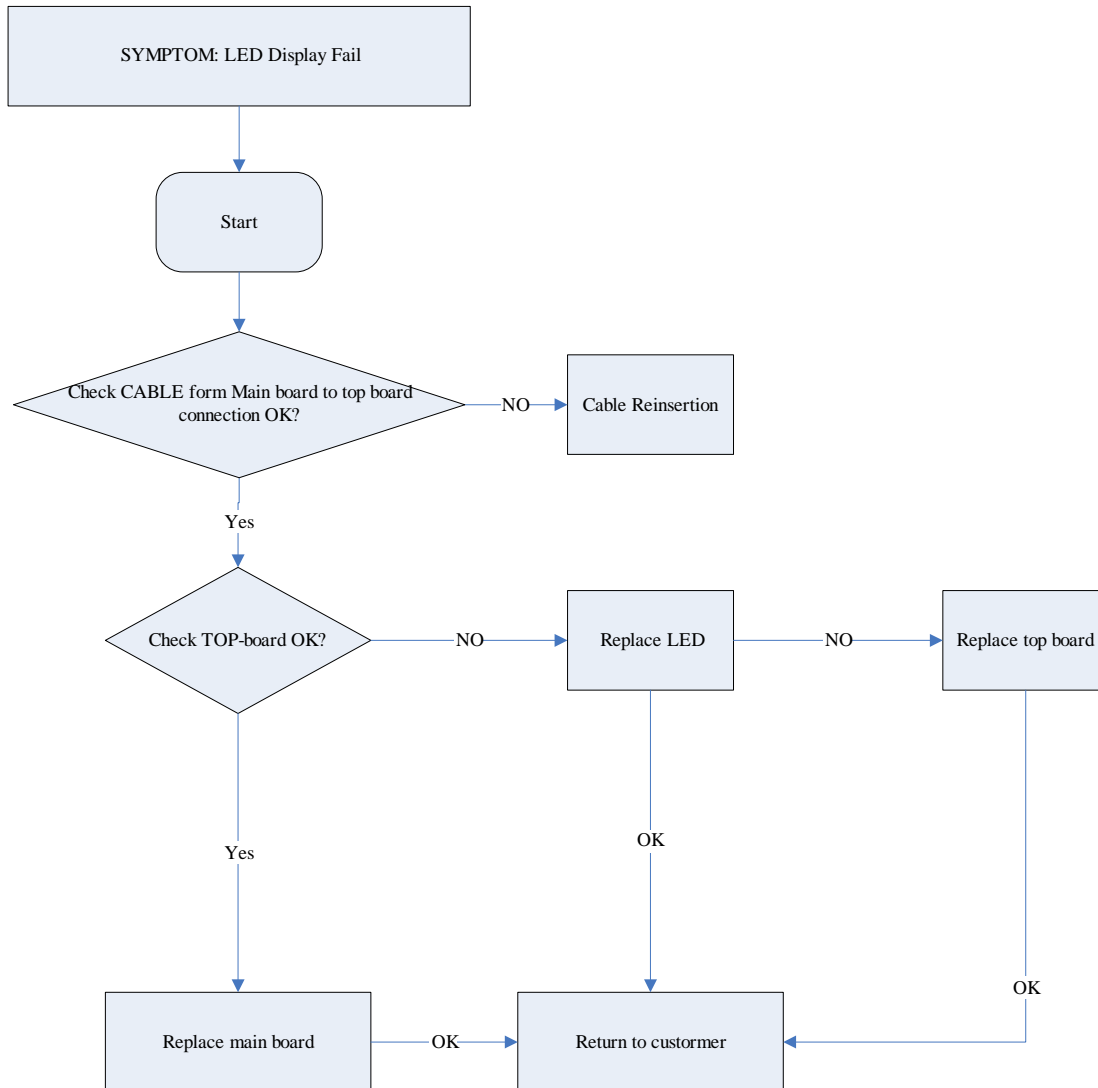


SYMPTOM: NO SOUND FROM HEADPHONE



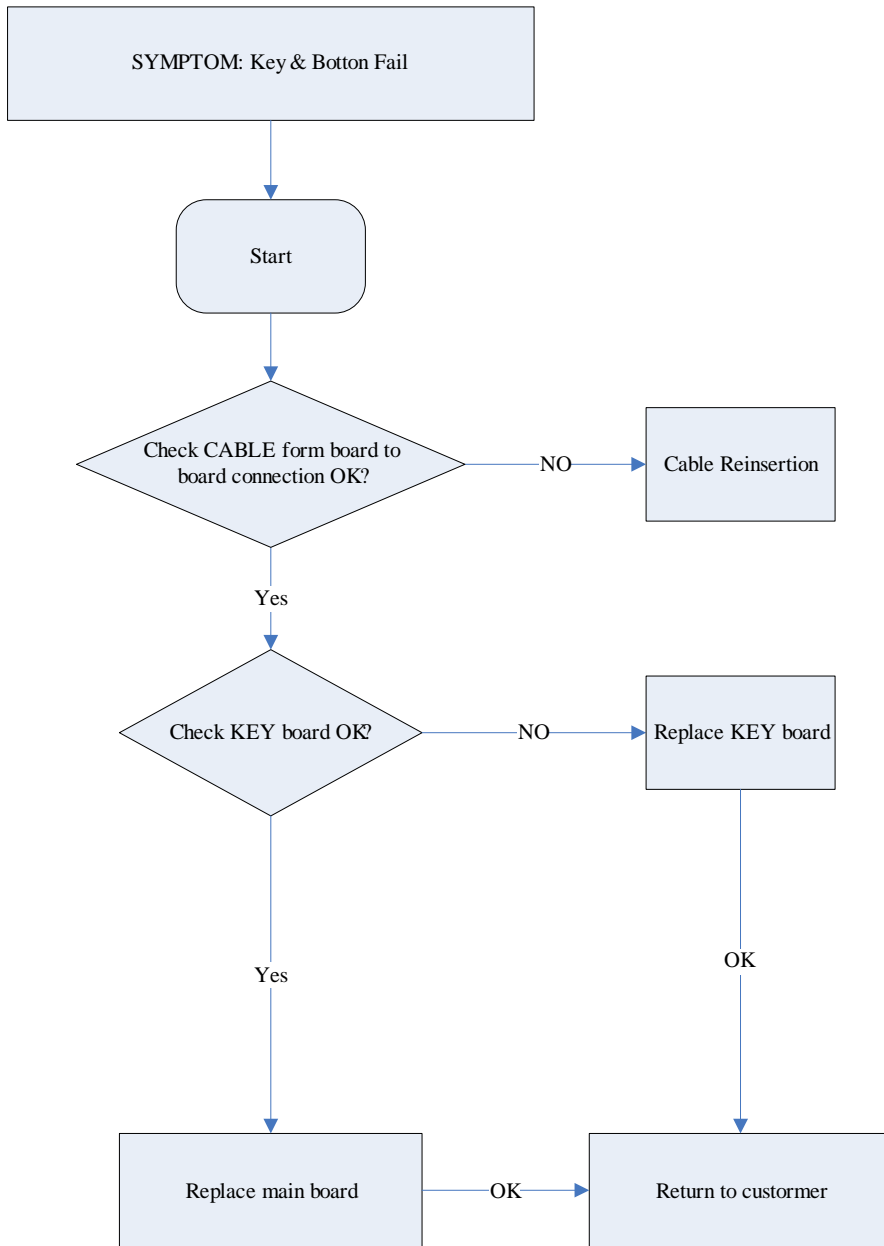
5.0 TROUBLESHOOTING

SYMPTOM: LED DISPLAY FAILURE



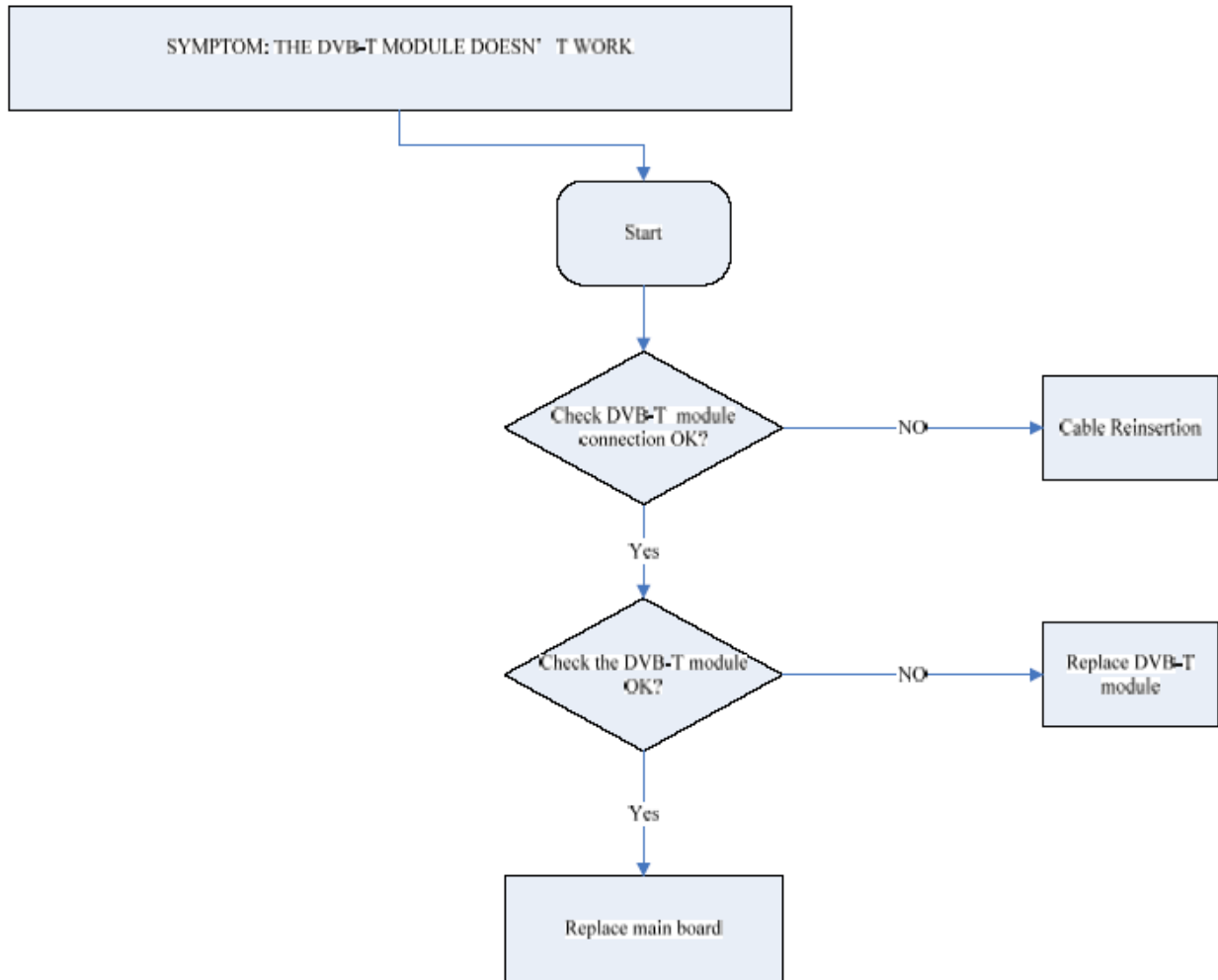
5.0 TROUBLESHOOTING

SYMPTOM: KEY & BOTTON FAILURE

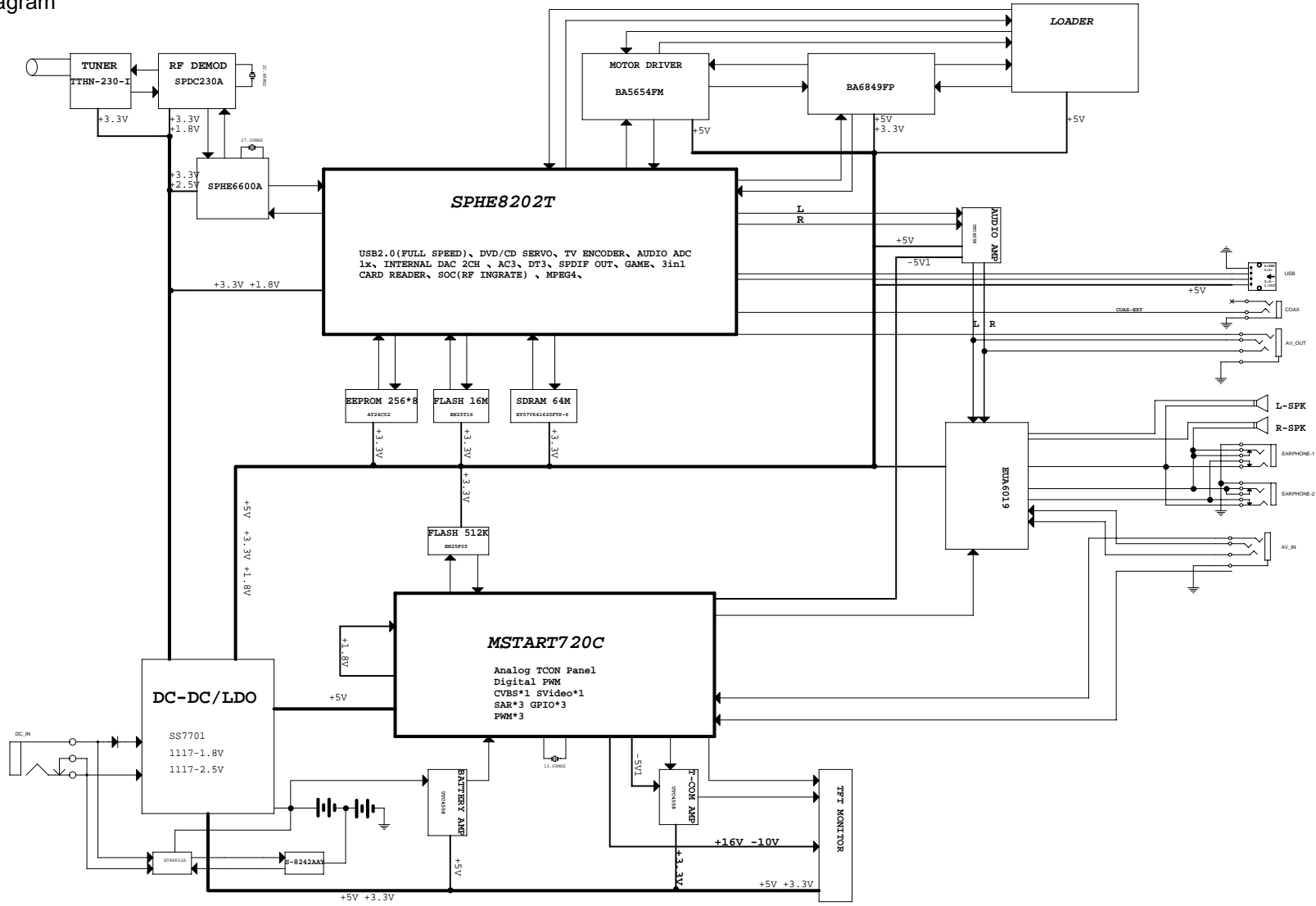


5.0 TROUBLESHOOTING

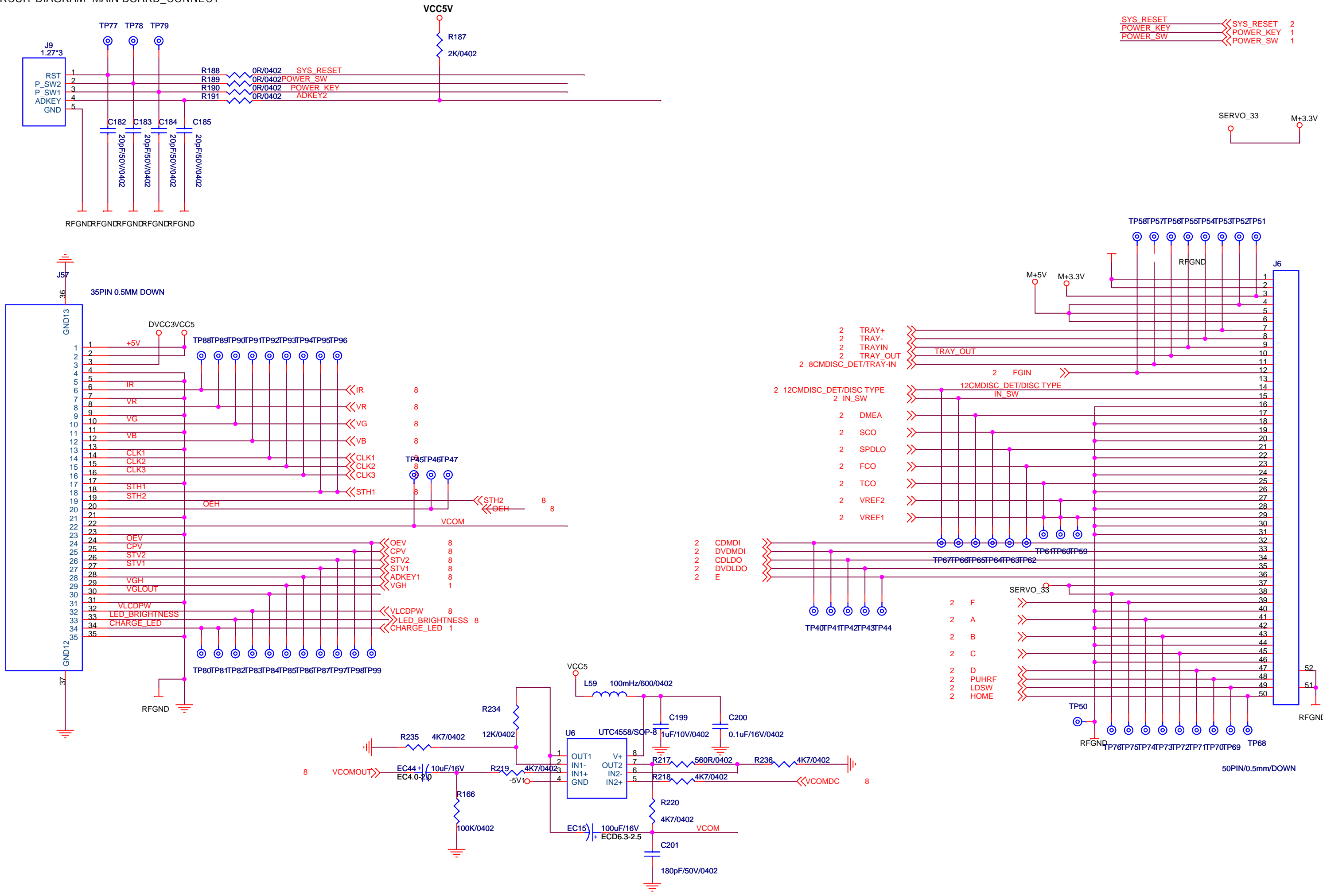
SYMPTOM: DVB-T FAILURE



6.0 Block Diagram



CIRCUIT DIAGRAM- MAIN BOARD_CONNECT

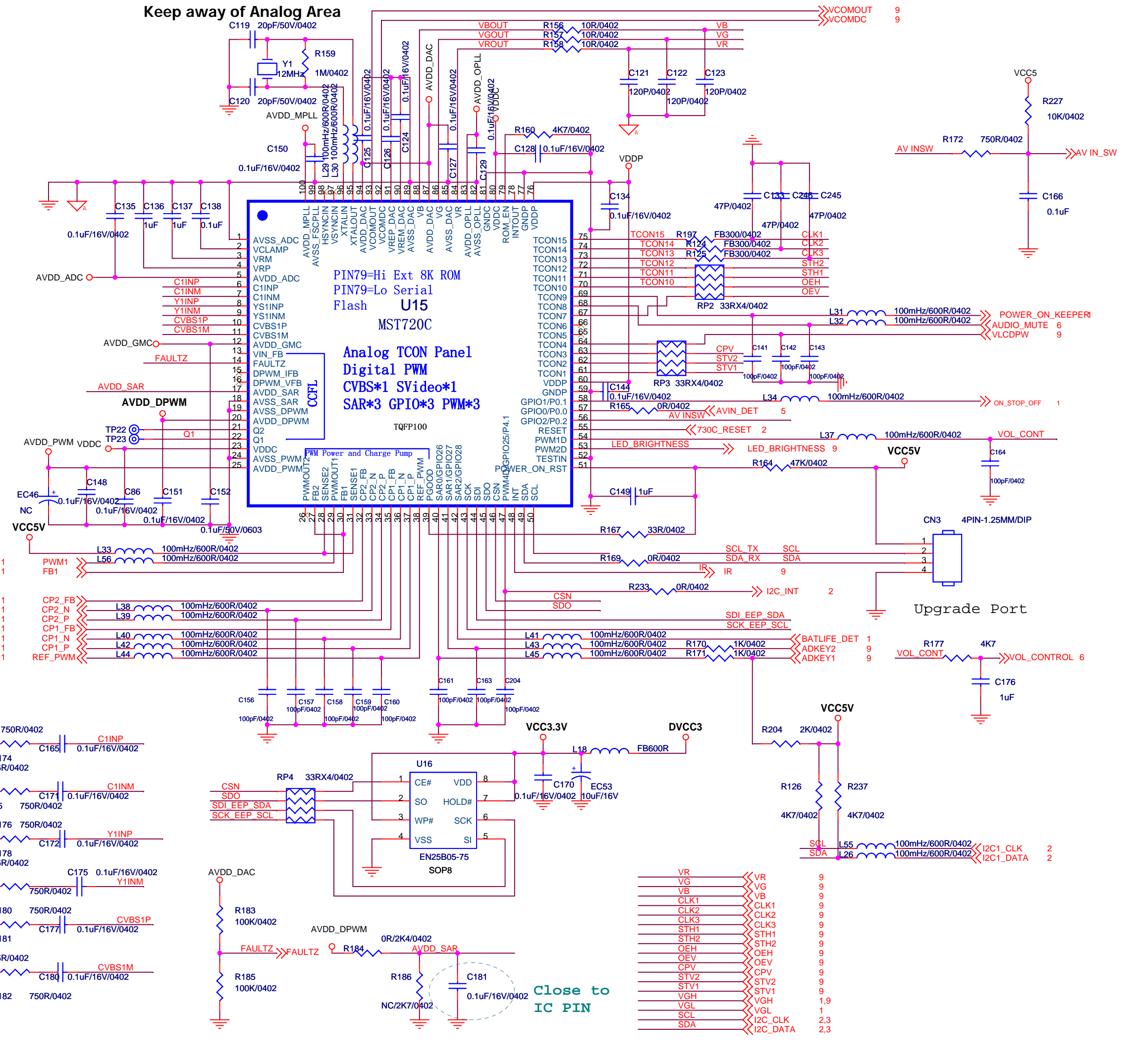
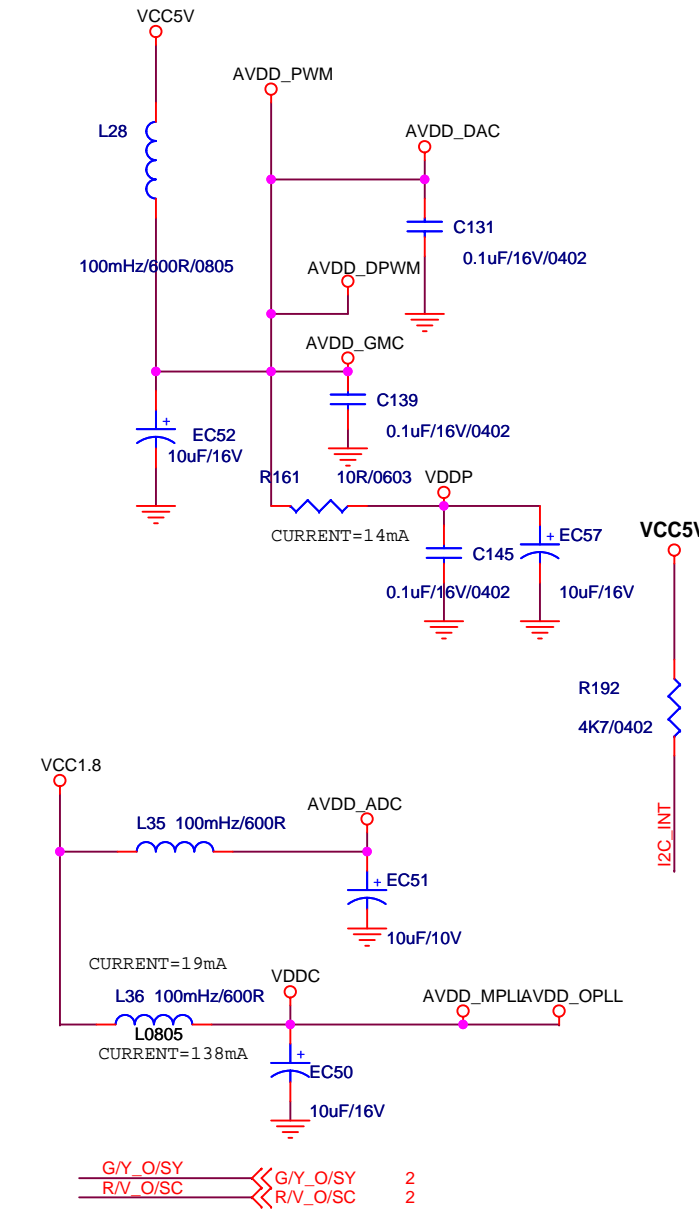


ADKEY2	ADKEY2	8
SYS_RESET	SYS_RESET	2
POWER_KEY	POWER_KEY	1
POWER_SW	POWER_SW	1

New VCOM Circuit

Keep away of Analog Area

Change Bead to Resistance for Glitch Prevention



PIN79=Hi Ext 8K ROM
PIN79=Lo Serial Flash U15
MST720C

Analog TCON Panel
Digital PWM
CVBS*1 SVideo*1
SAR*3 GPIO*3 PWM*3

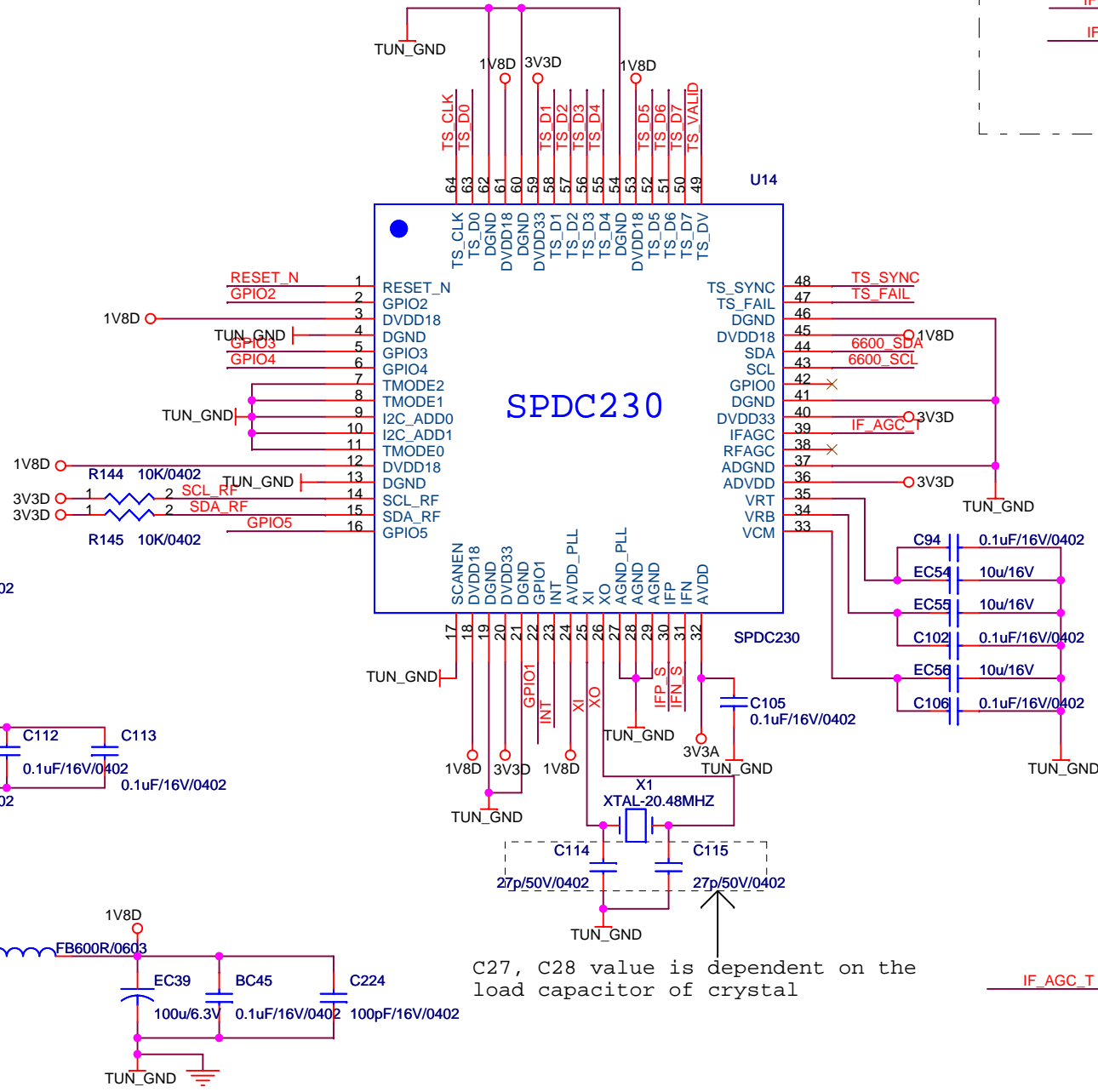
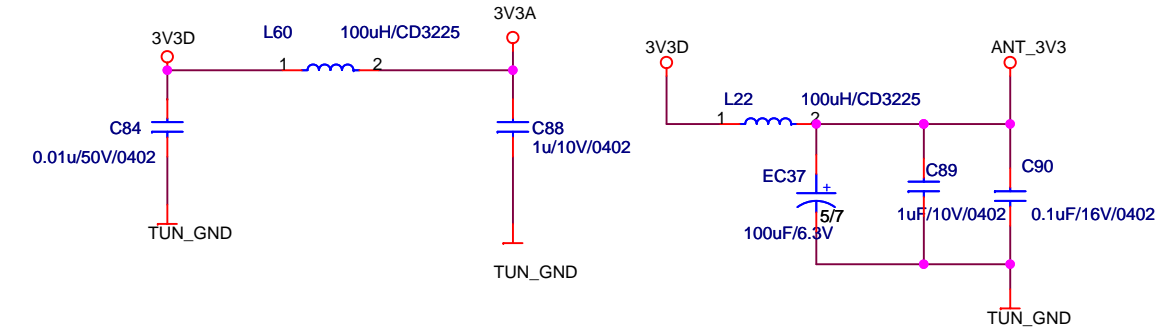
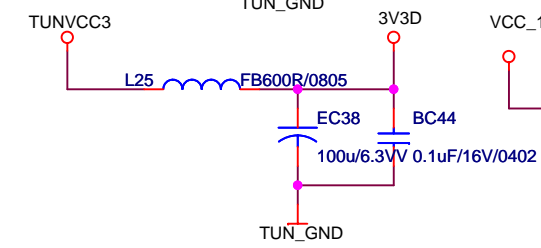
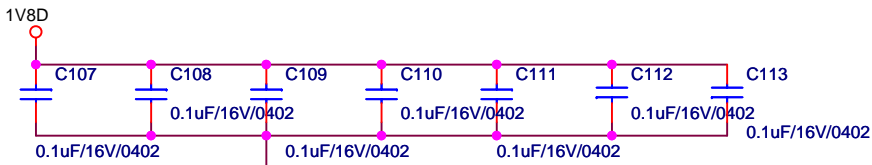
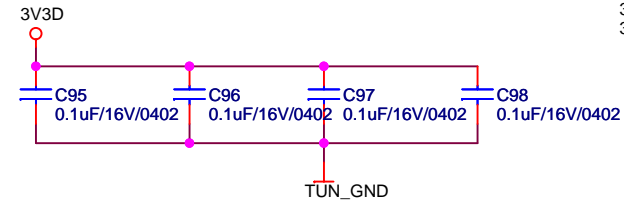
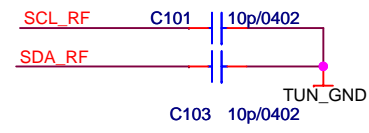
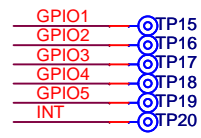
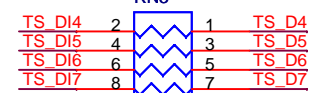
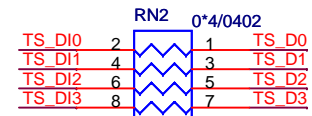
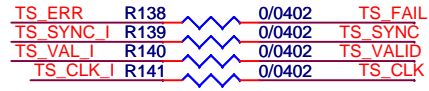
CCFL
PWM Power and Charge Pump

Close to IC PIN

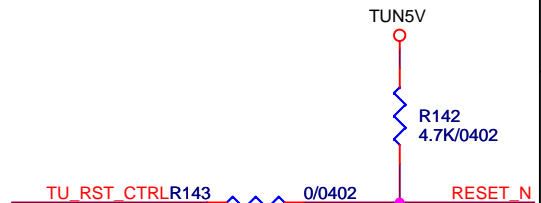
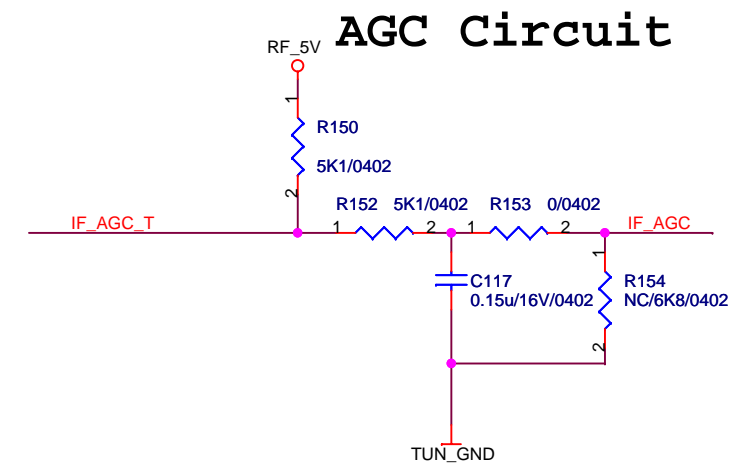
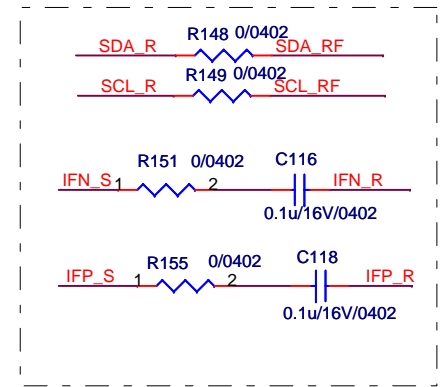
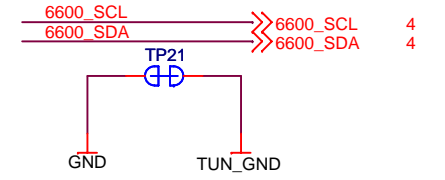
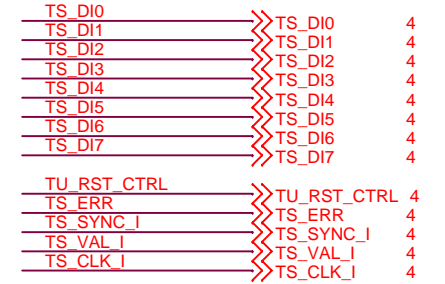
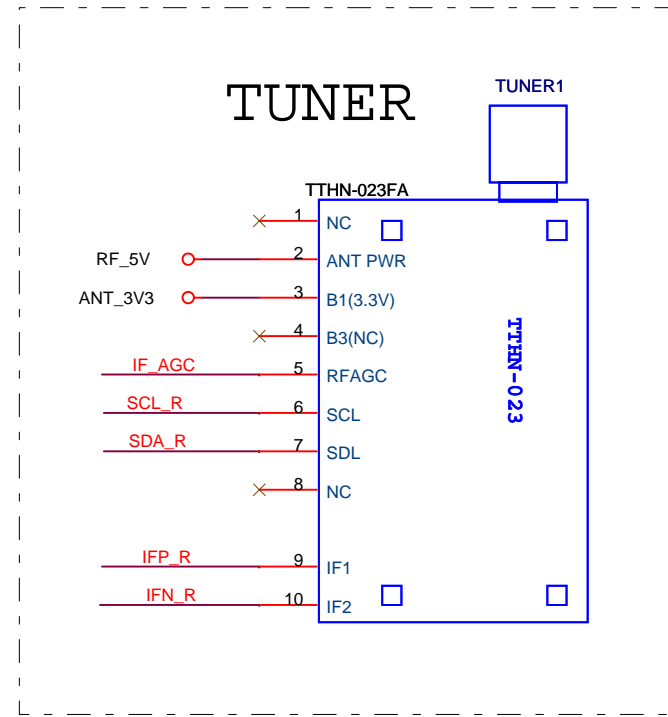
Upgrade Port

- VR
- VG
- VB
- CLK1
- CLK2
- CLK3
- STH1
- STH2
- OEH
- OEV
- CPV
- STV2
- STV1
- VGH
- VGL
- SCL
- SDA

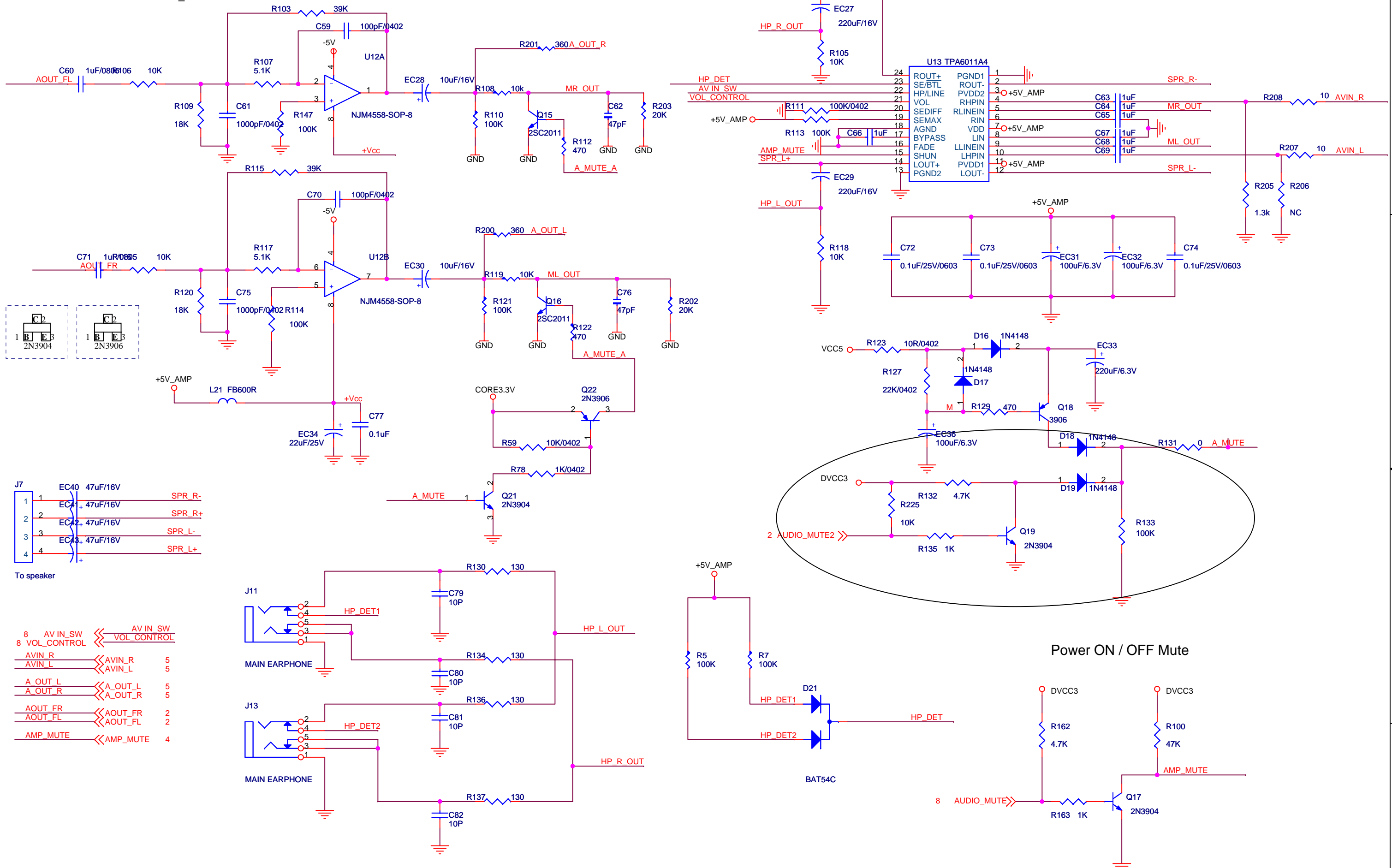
CIRCUIT DIAGRAM-MAIN BOARD_SPDC230A



C27, C28 value is dependent on the load capacitor of crystal



CIRCUIT DIAGRAM- MAIN BOARD_AUDIO

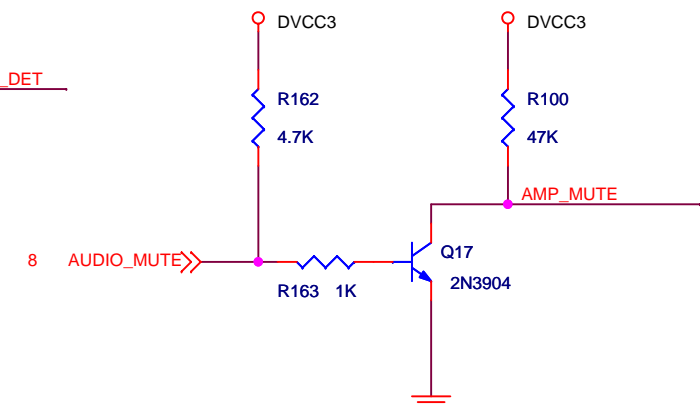


J7 To speaker

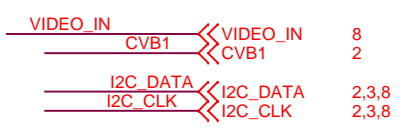
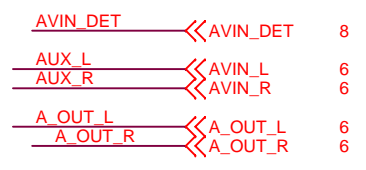
1	EC40	47uF/16V	SPR_R-
2	EC41	47uF/16V	SPR_R+
3	EC42	47uF/16V	SPR_L-
4	EC43	47uF/16V	SPR_L+

8	AV IN_SW	AV IN_SW	
8	VOL_CONTROL	VOL_CONTROL	
5	AVIN_R	AVIN_R	5
5	AVIN_L	AVIN_L	5
5	A_OUT_L	A_OUT_L	5
5	A_OUT_R	A_OUT_R	5
2	AOUT_FR	AOUT_FR	2
2	AOUT_FL	AOUT_FL	2
4	AMP_MUTE	AMP_MUTE	4

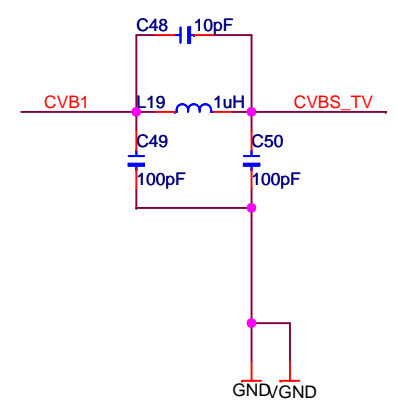
Power ON / OFF Mute



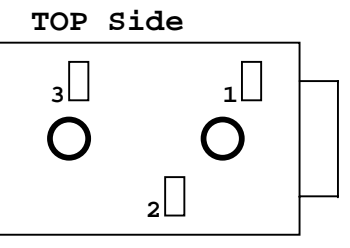
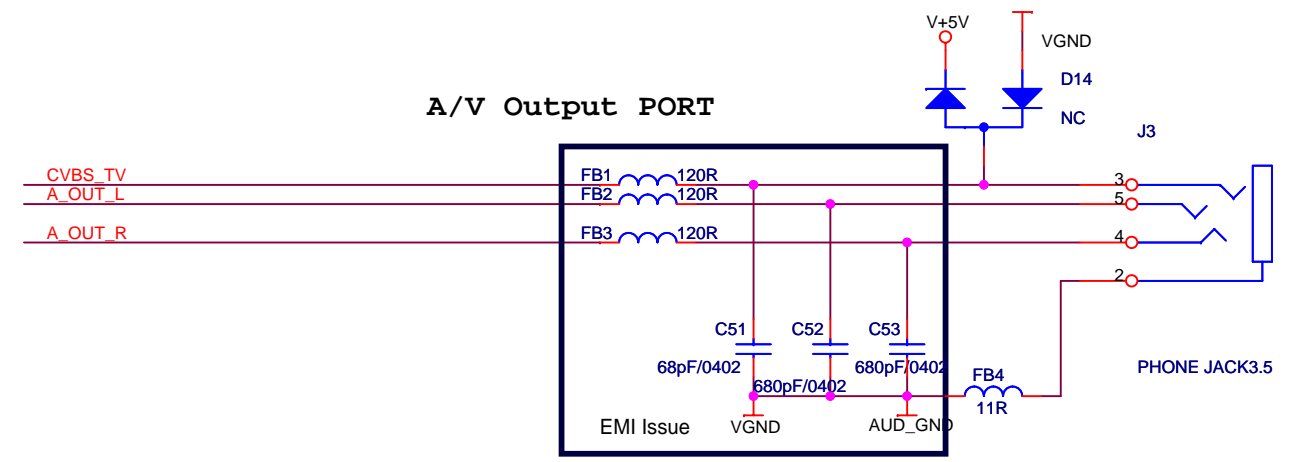
CIRCUIT DIAGRAM-MAIN BOARD_VIDEO



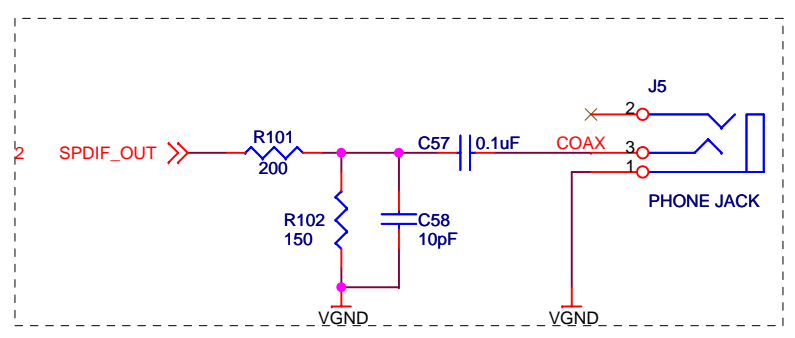
VIDEO PORT (CVBS & COAX)



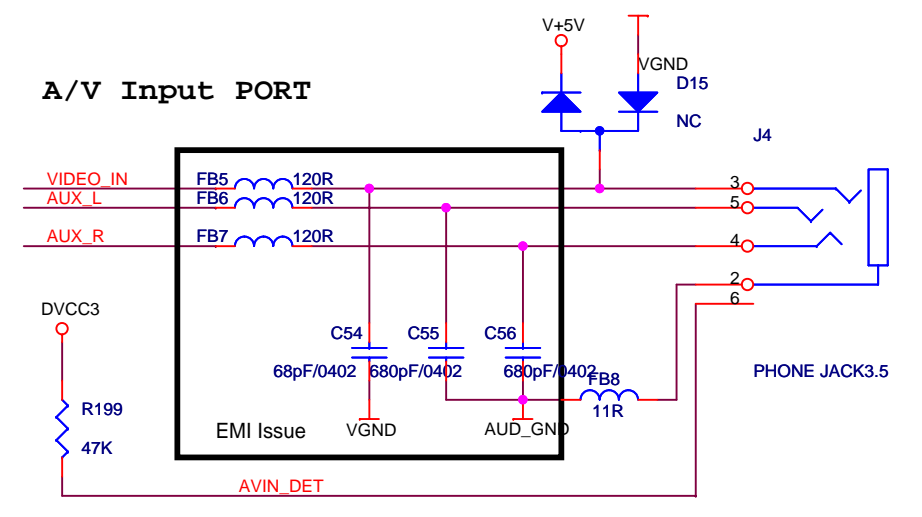
A/V Output PORT



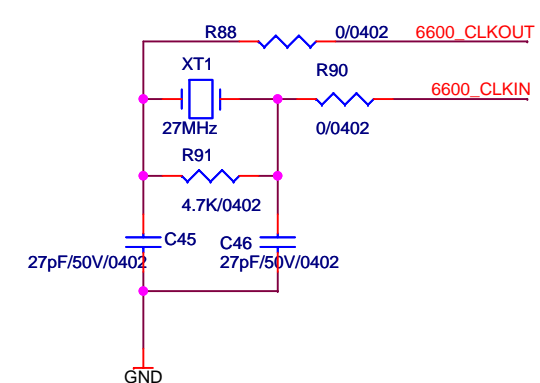
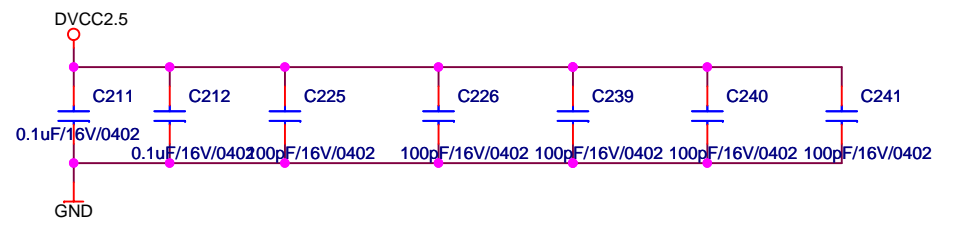
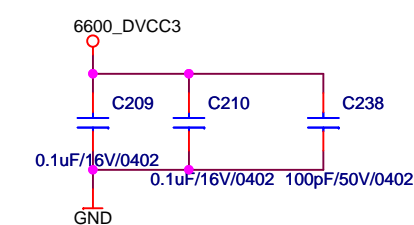
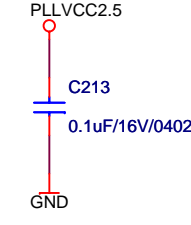
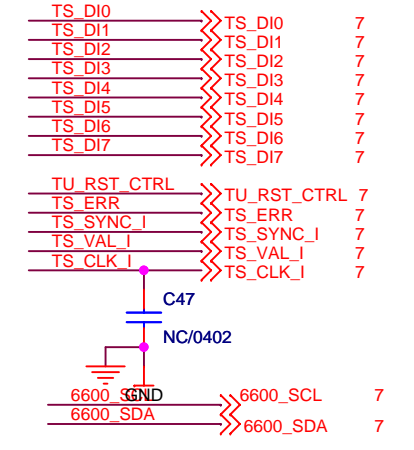
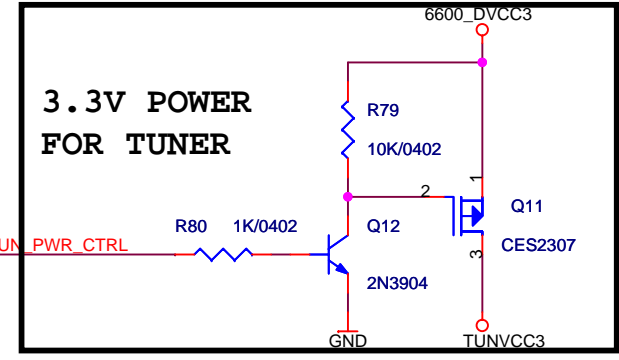
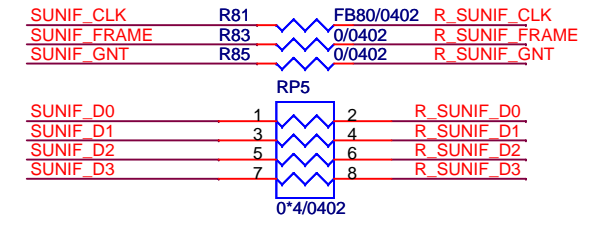
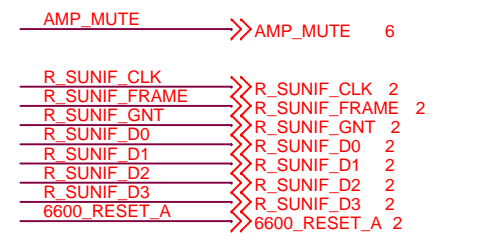
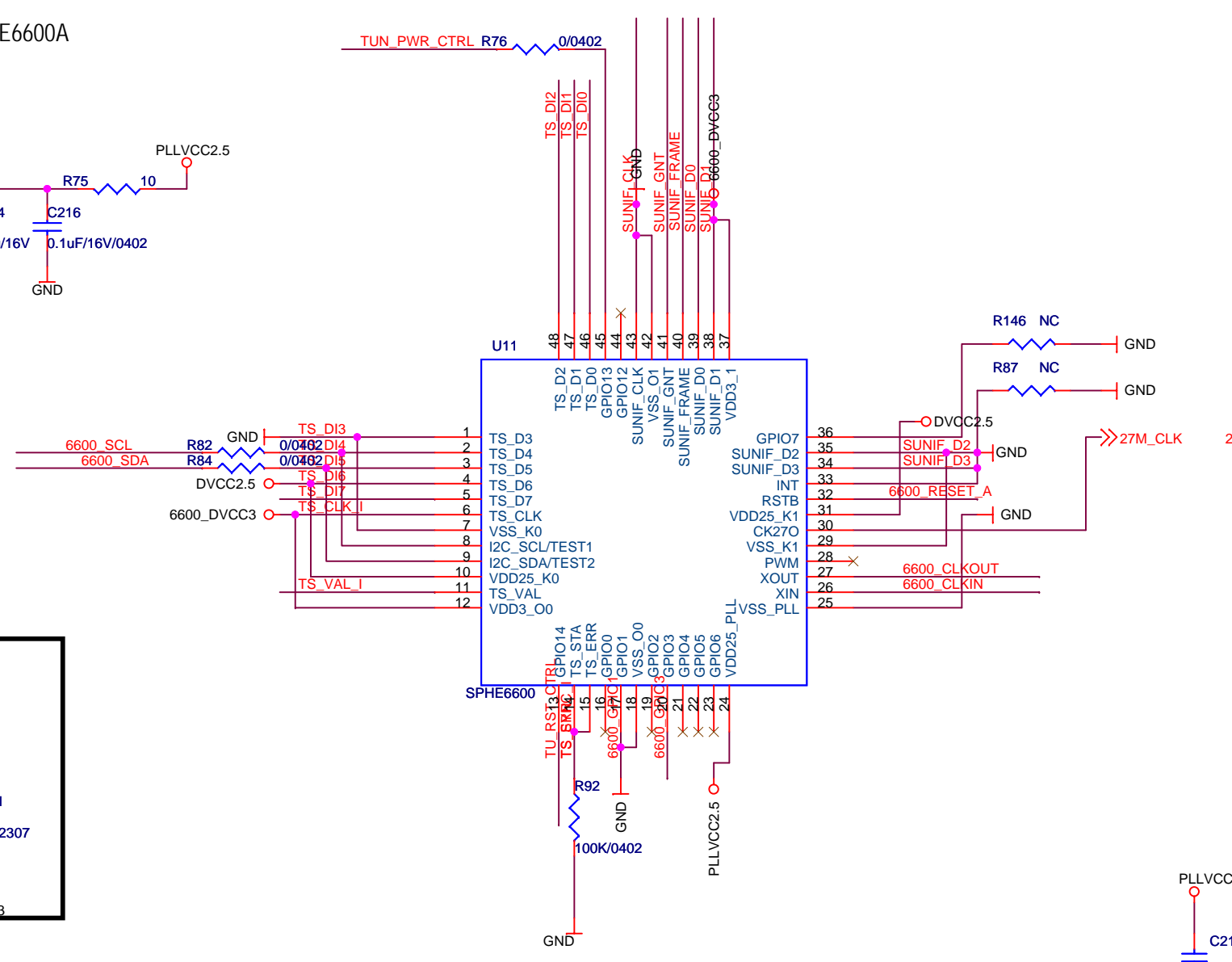
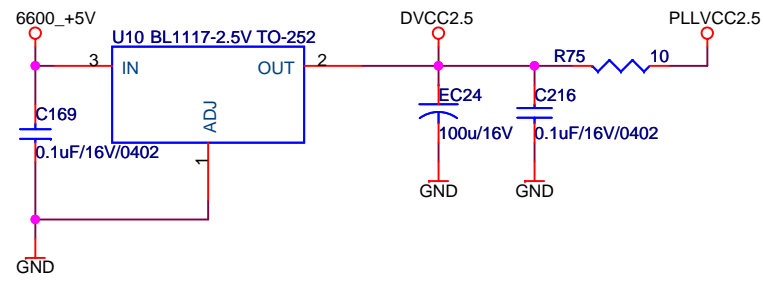
SPDIF I/F & COAX Output Connector



A/V Input PORT



CIRCUIT DIAGRAM-MAIN BOARD_ SPHE6600A



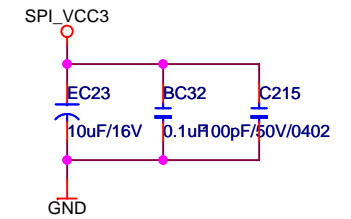
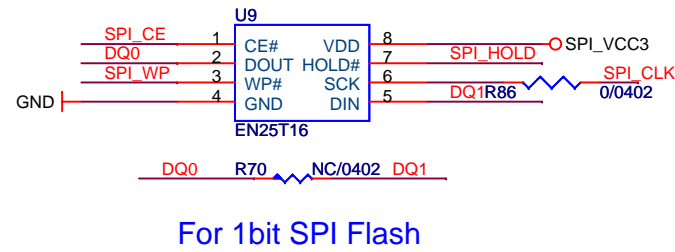
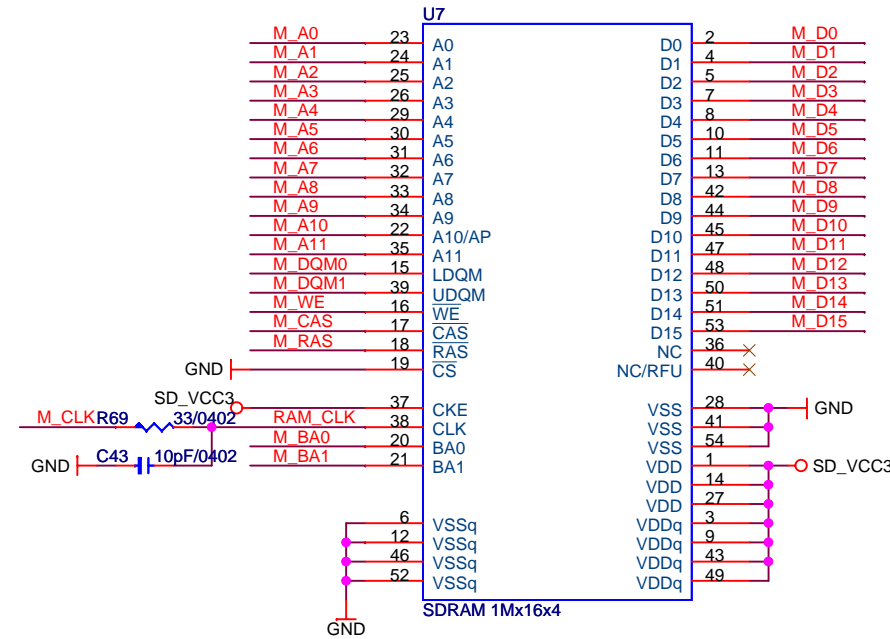
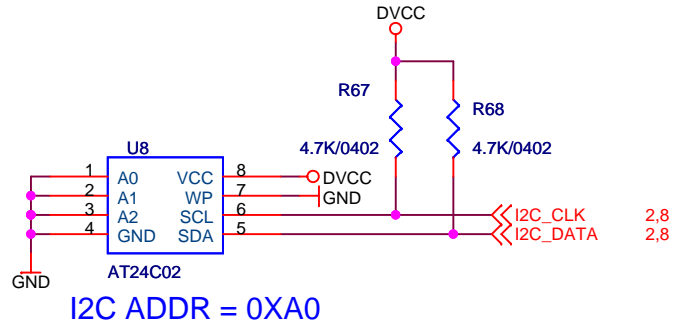
These pins must be pull up or pull down

6600_SDA	R94	10K/0402	6600_+5V
6600_SCL	R95	10K/0402	6600_+5V
SUNIF_FRAME	R96	10K/0402	6600_DVCC3
SUNIF_GNT	R97	10K/0402	6600_DVCC3

H/W config pin, must always reserve

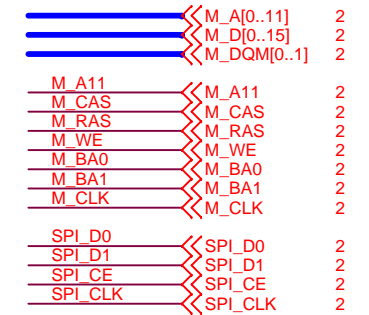
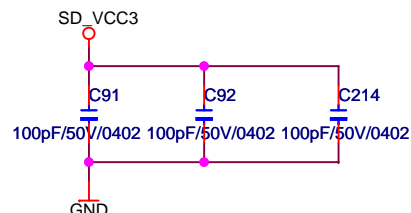
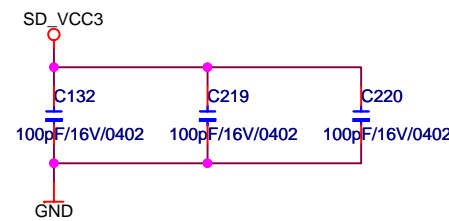
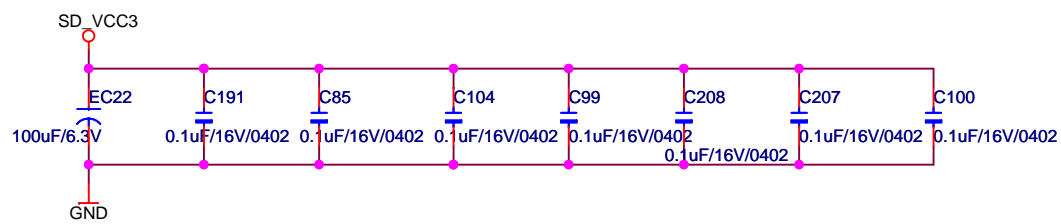
6600_GPIO1	R98	47K/0402	6600_DVCC3
6600_GPIO3	R99	47K/0402	GND

CIRCUIT DIAGRAM- MAIN BOARD_FLASH&SDRAM

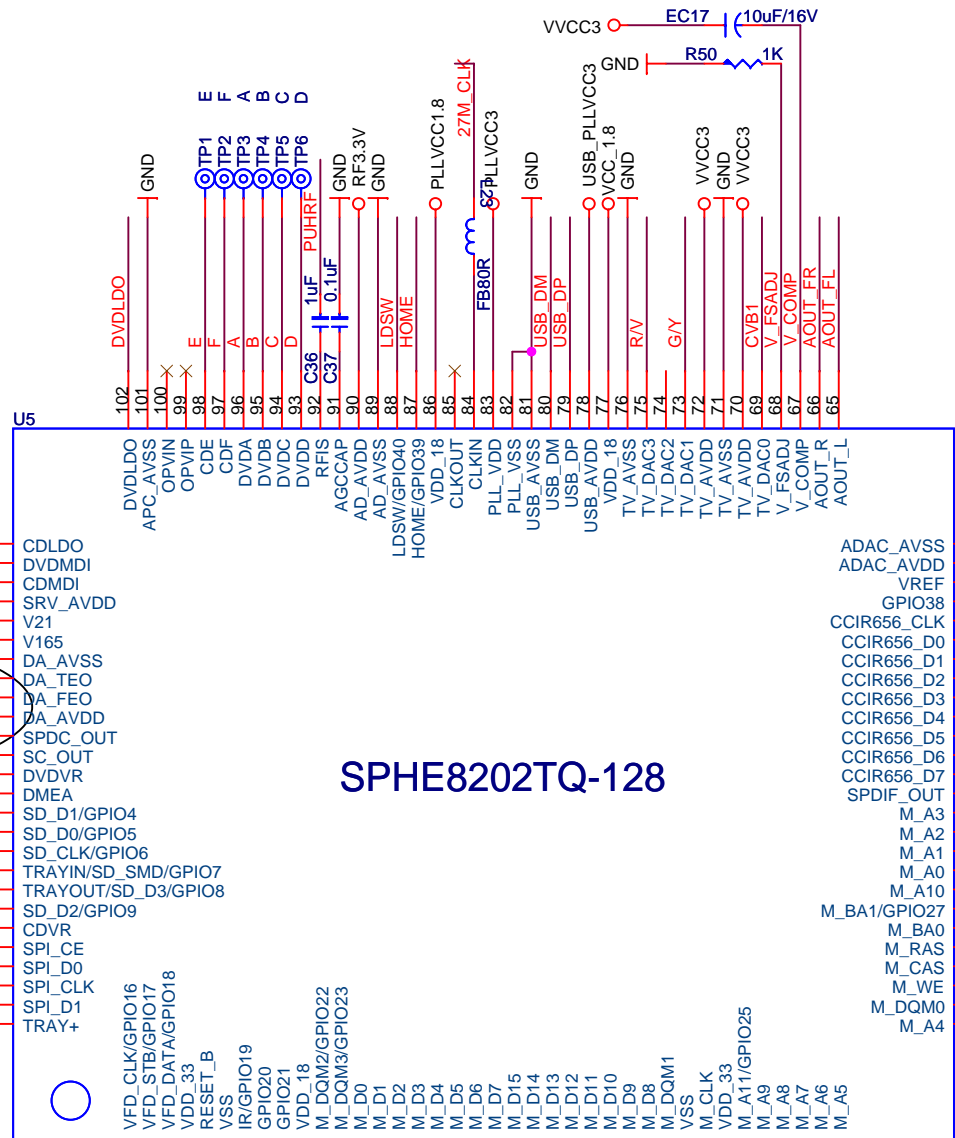
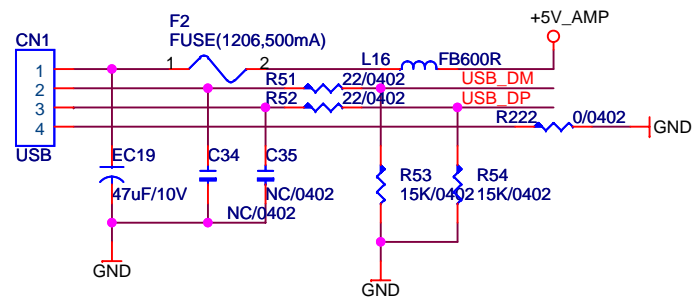


SPI Mode Setting

	2bit	1bit
R119	NC	0
R121	0	NC

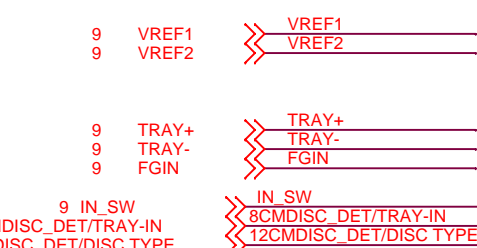
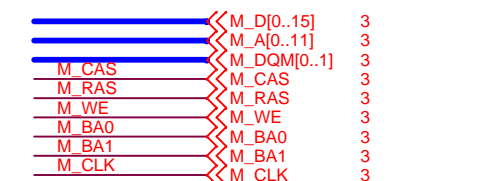
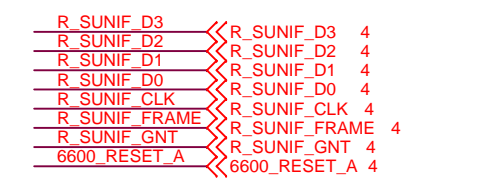
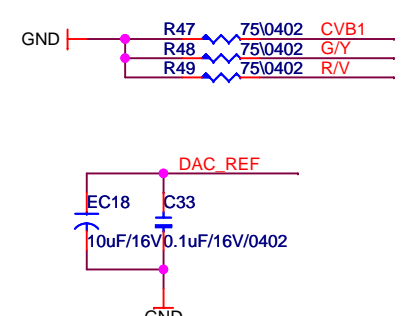
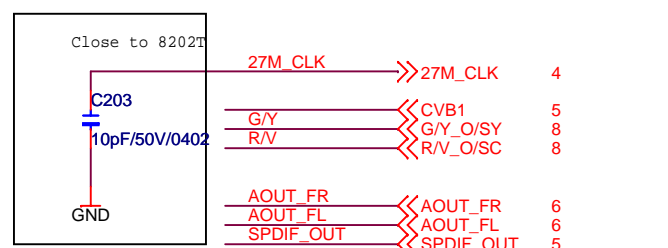


CIRCUIT DIAGRAM- MAIN BOARD_SPHE8202T

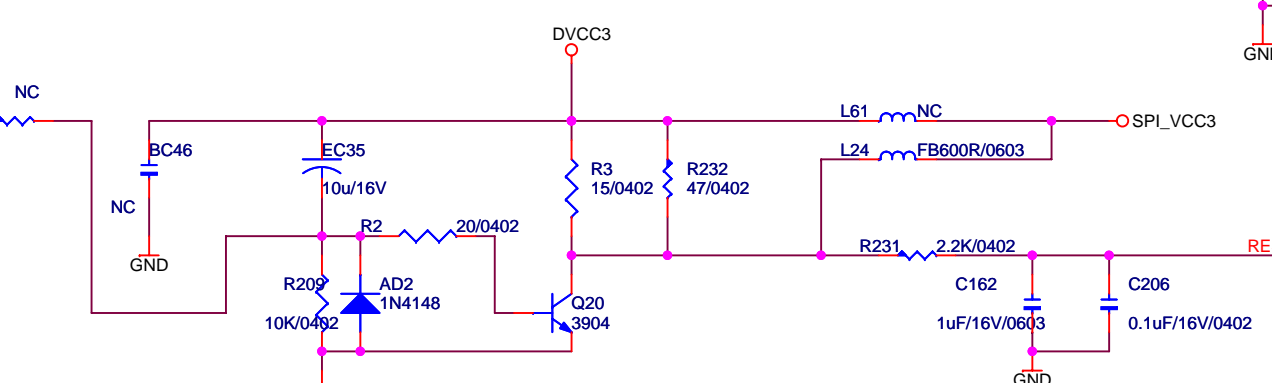
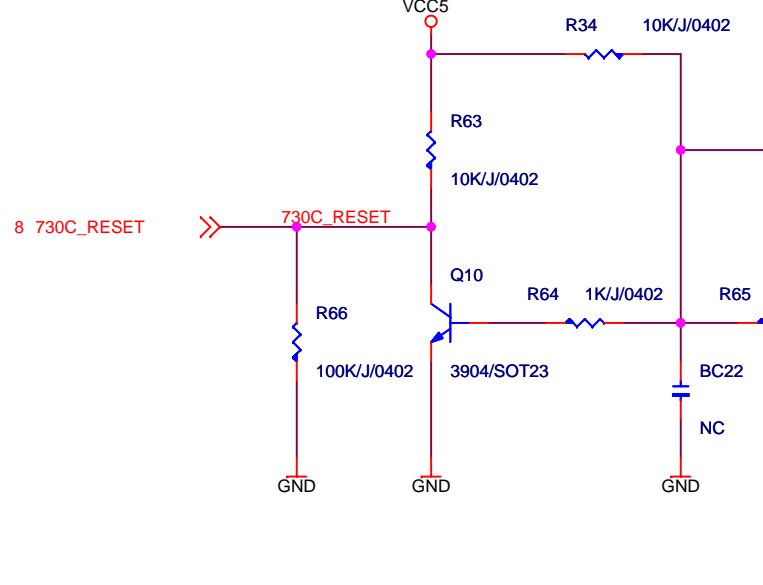
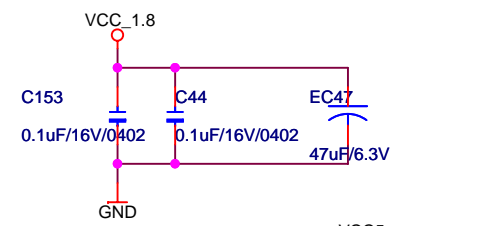
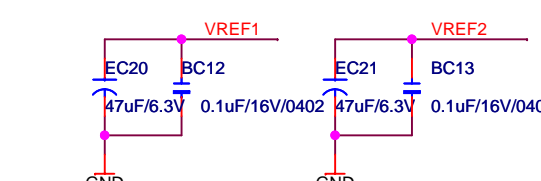
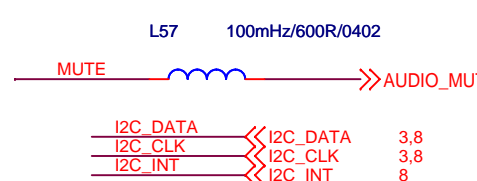
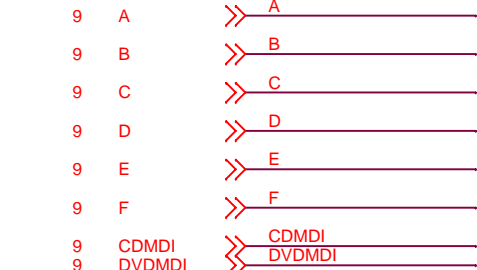
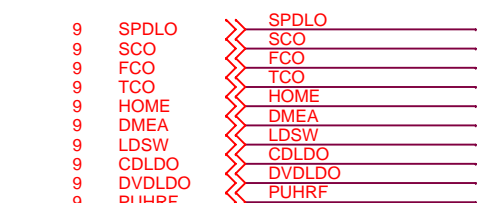
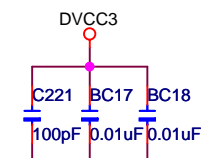
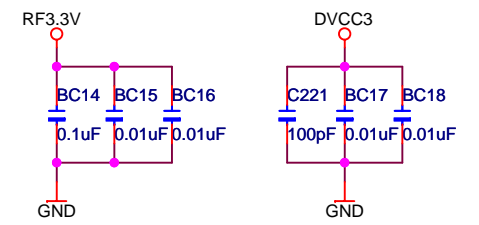
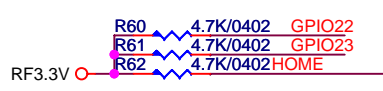
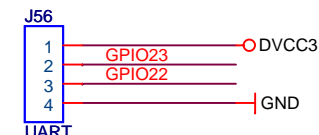


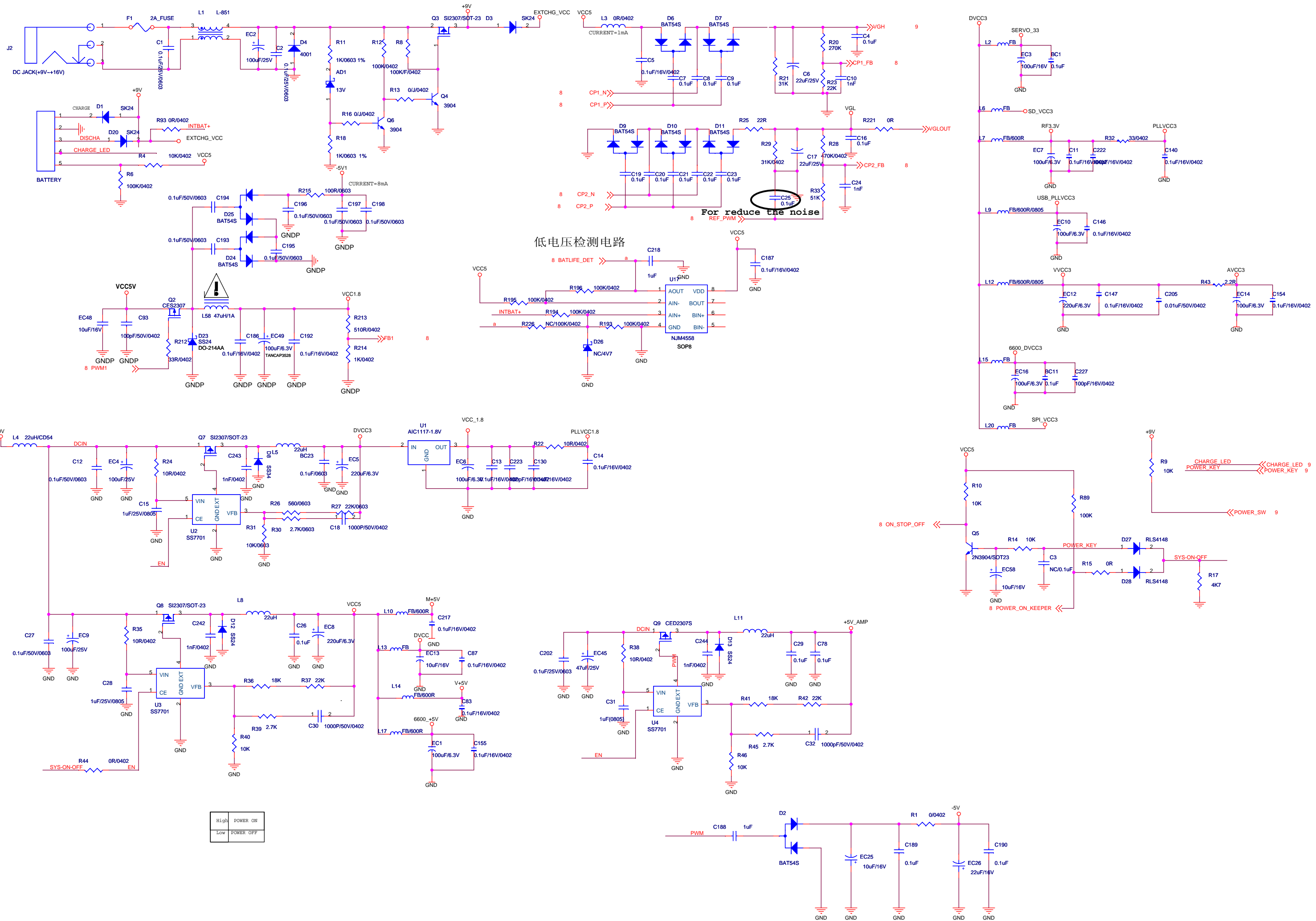
CDLDO	103
DVDMDI	104
CDMDI	105
SRV_AVDD	106
V21	107
V165	109
DA_AVSS	110
DA_TEO	111
DA_FEO	112
DA_AVDD	113
SPDC_OUT	114
SC_OUT	115
DVDVR	116
DMEA	117
IN_SW	118
12CMDISC_DET/DISC TYPE	119
FGIN	120
8CMDISC_DET/TRAY-IN	121
TRAY_OUT	122
TRAYIN	123
TRAY-	124
SPI_CE	125
SPI_D0	126
SPI_CLK	127
SPI_D1	128
TRAY+	129

SPHE8202TQ-128

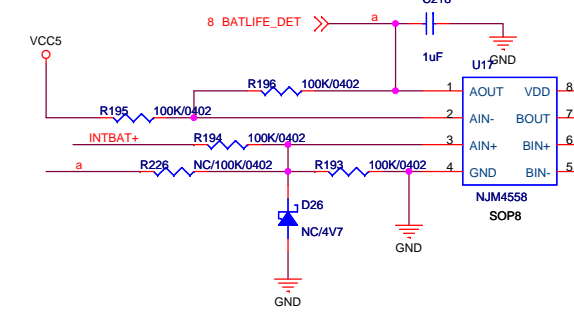


Debug Port





低电压检测电路

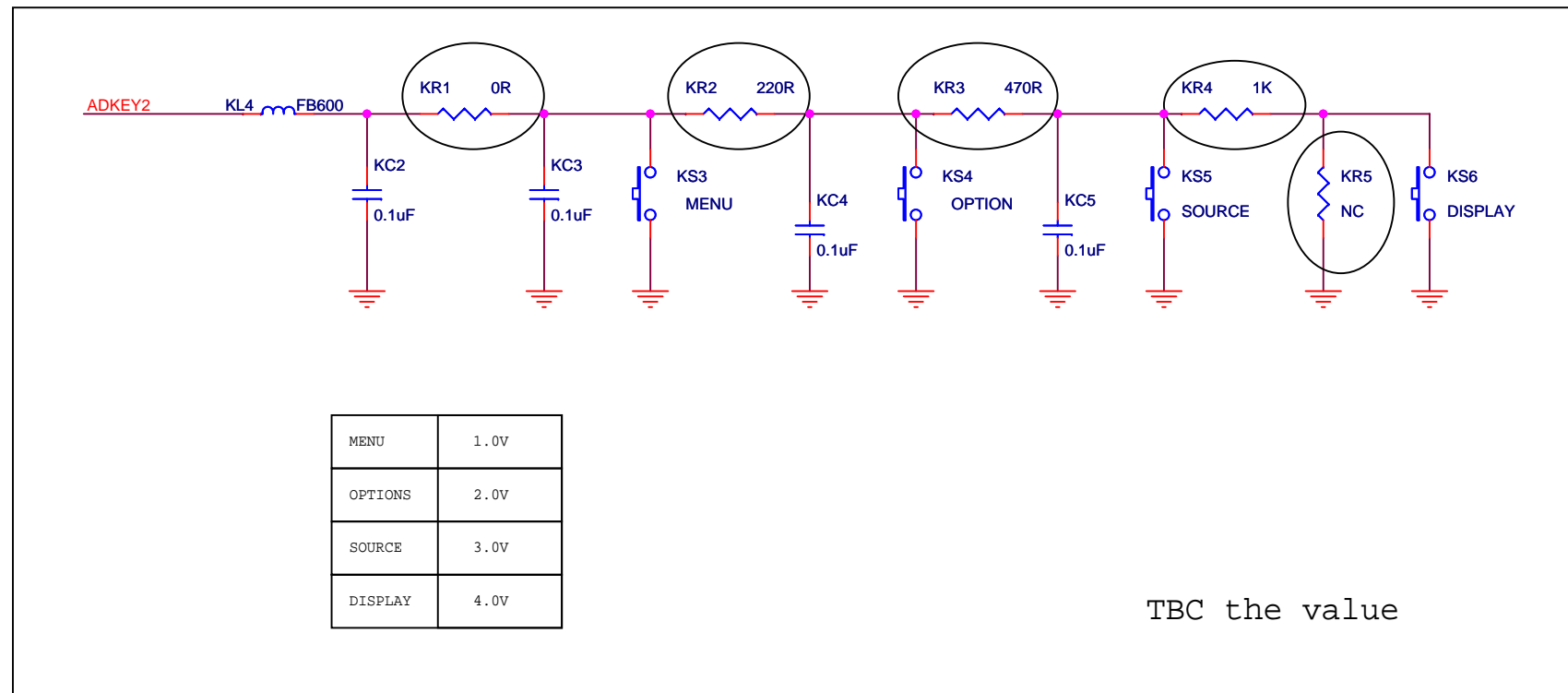
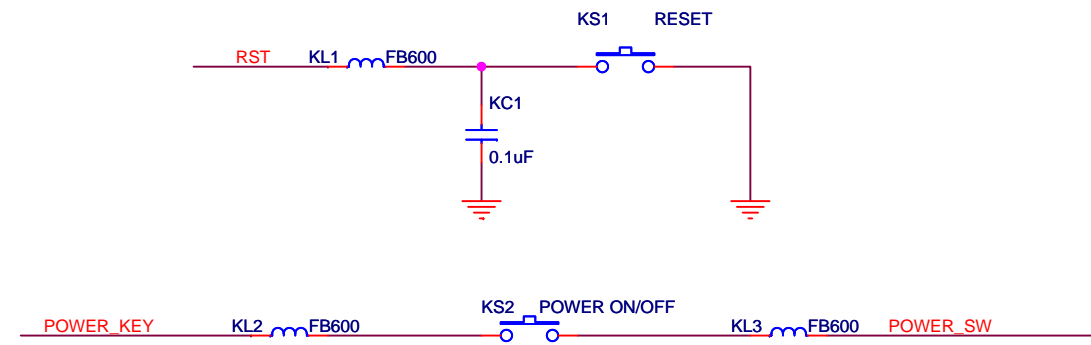
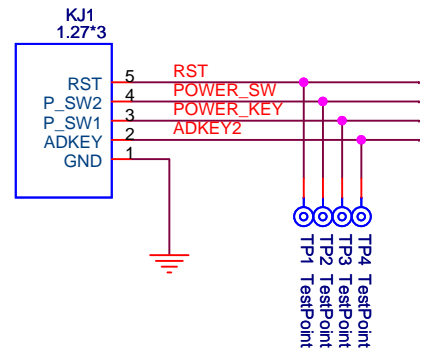


For reduce the noise

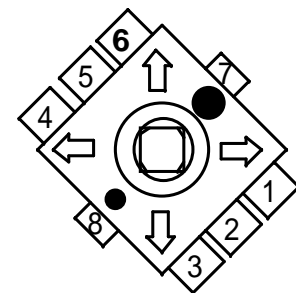
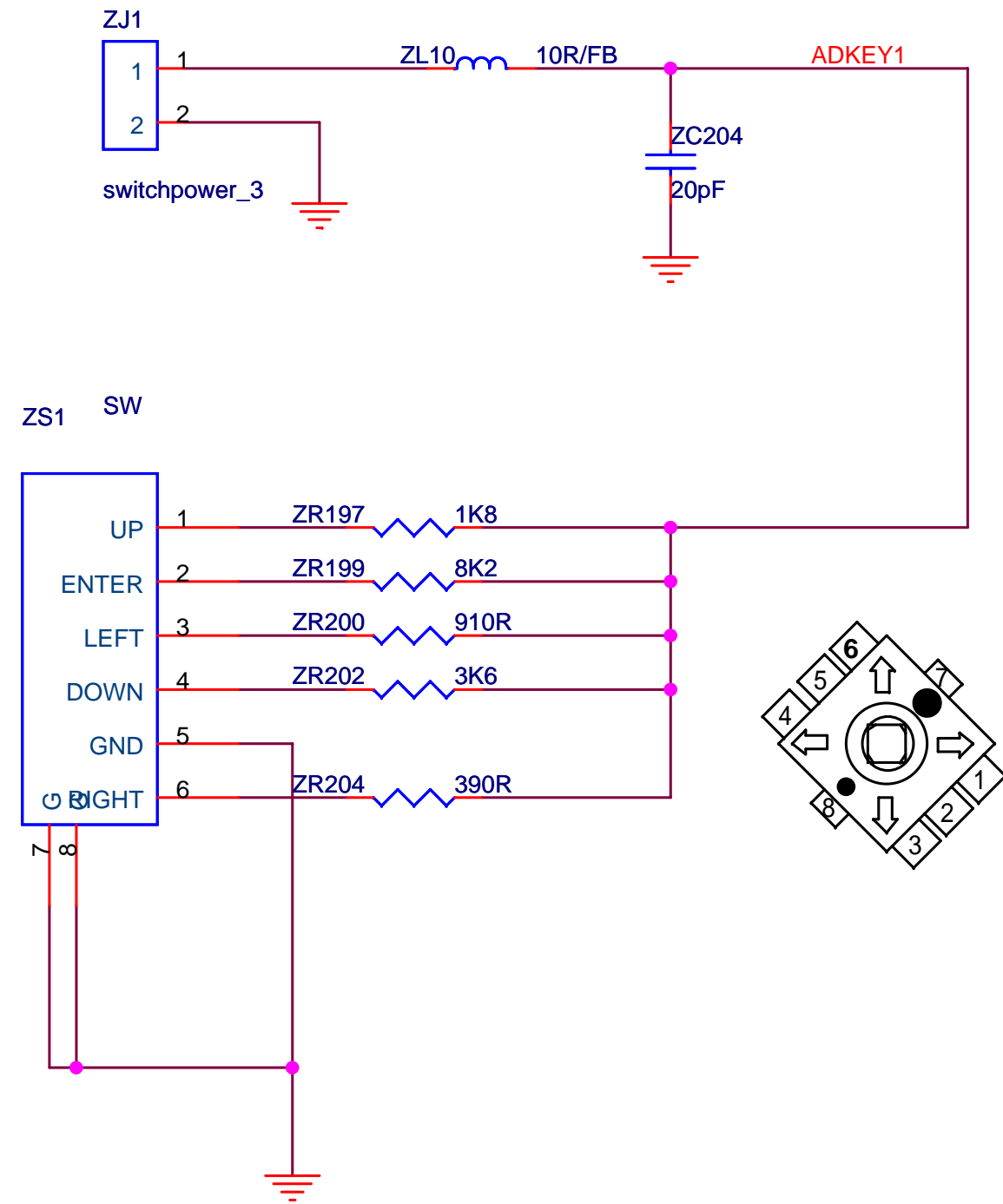


High	POWER ON
Low	POWER OFF

CIRCUIT DIAGRAM- KEY_A

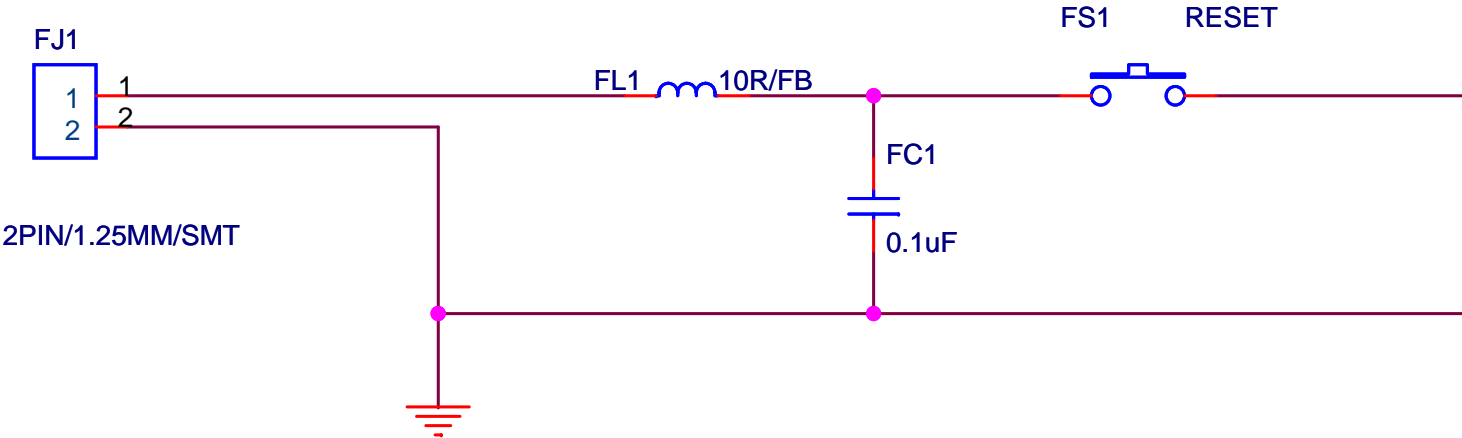


CIRCUIT DIAGRAM- KEY_B



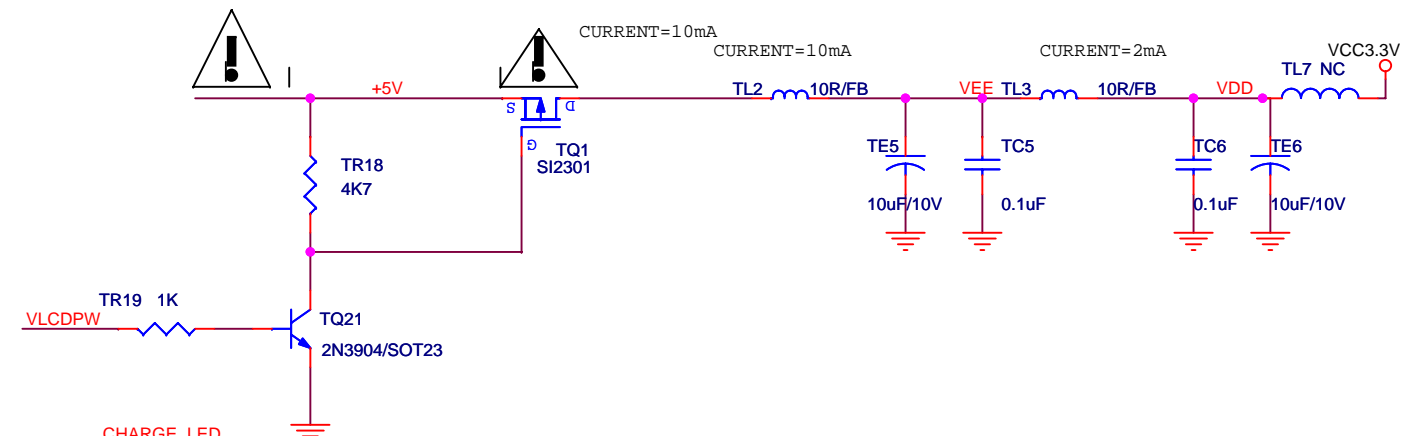
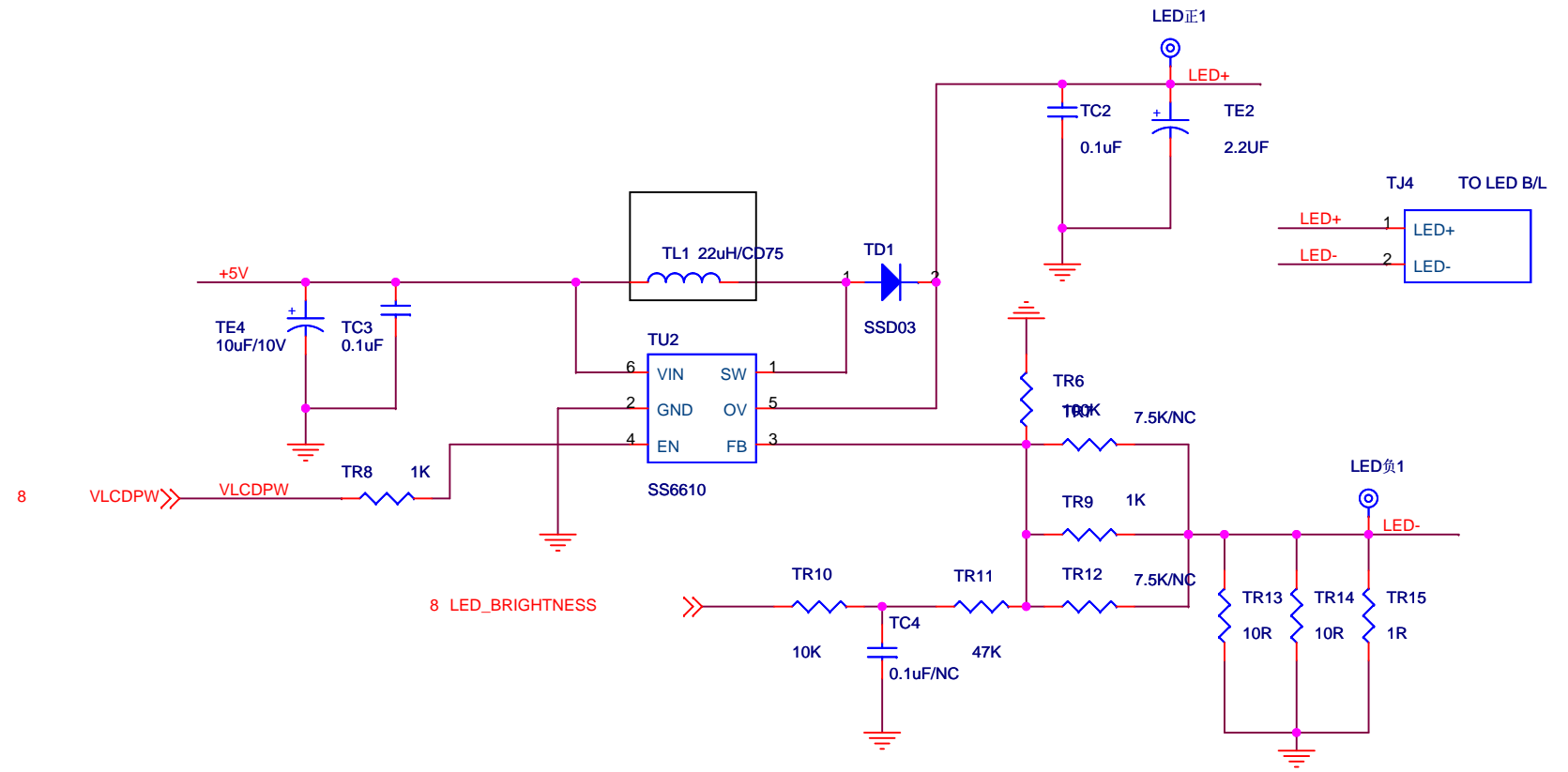
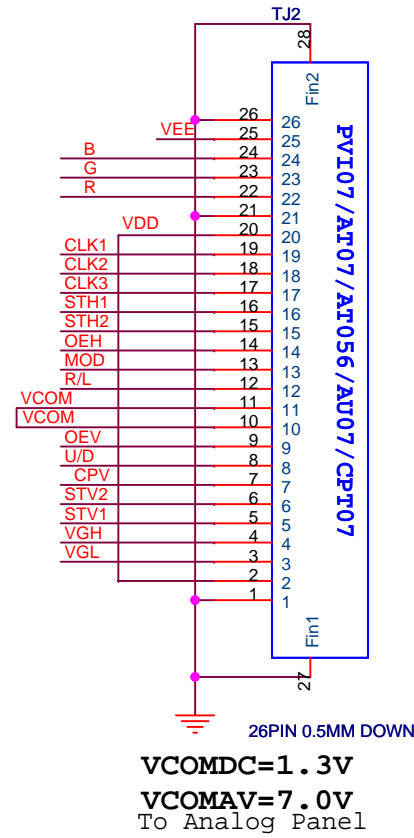
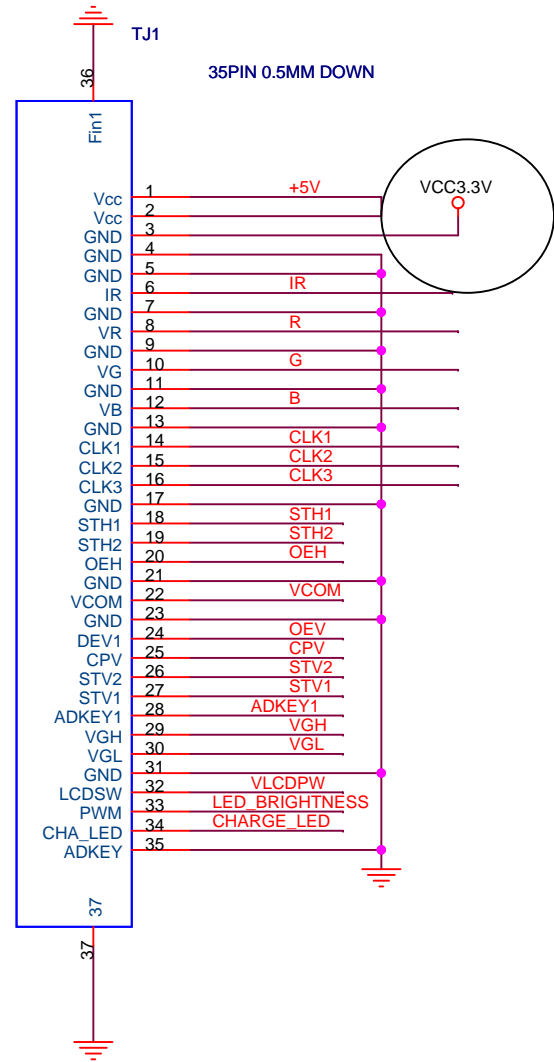
ENTER	4.0V
RIGHT	3.2V
LEFT	2.4V
DOWN	1.6V
UP	0.8V
Disc OUT	0V

CIRCUIT DIAGRAM- KEY_C

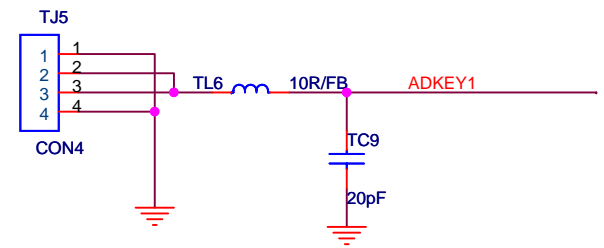
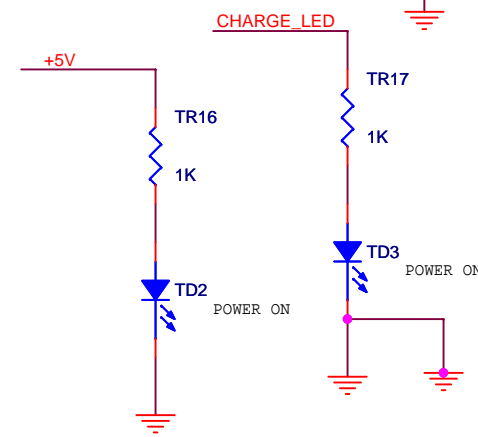
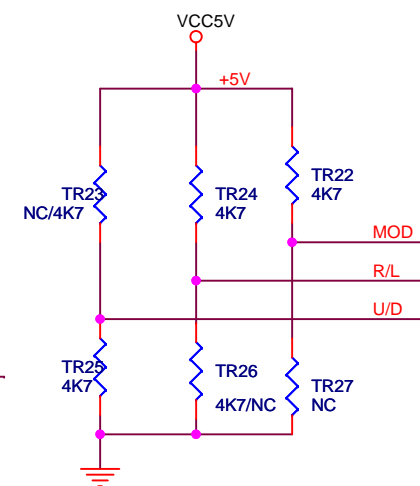
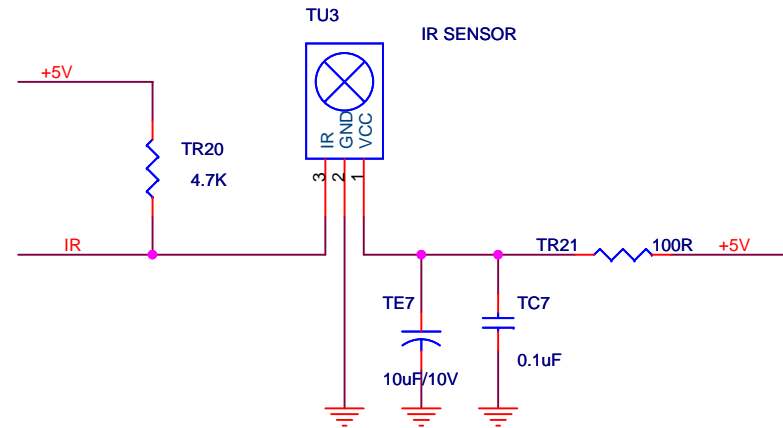


To TFT Connector Board

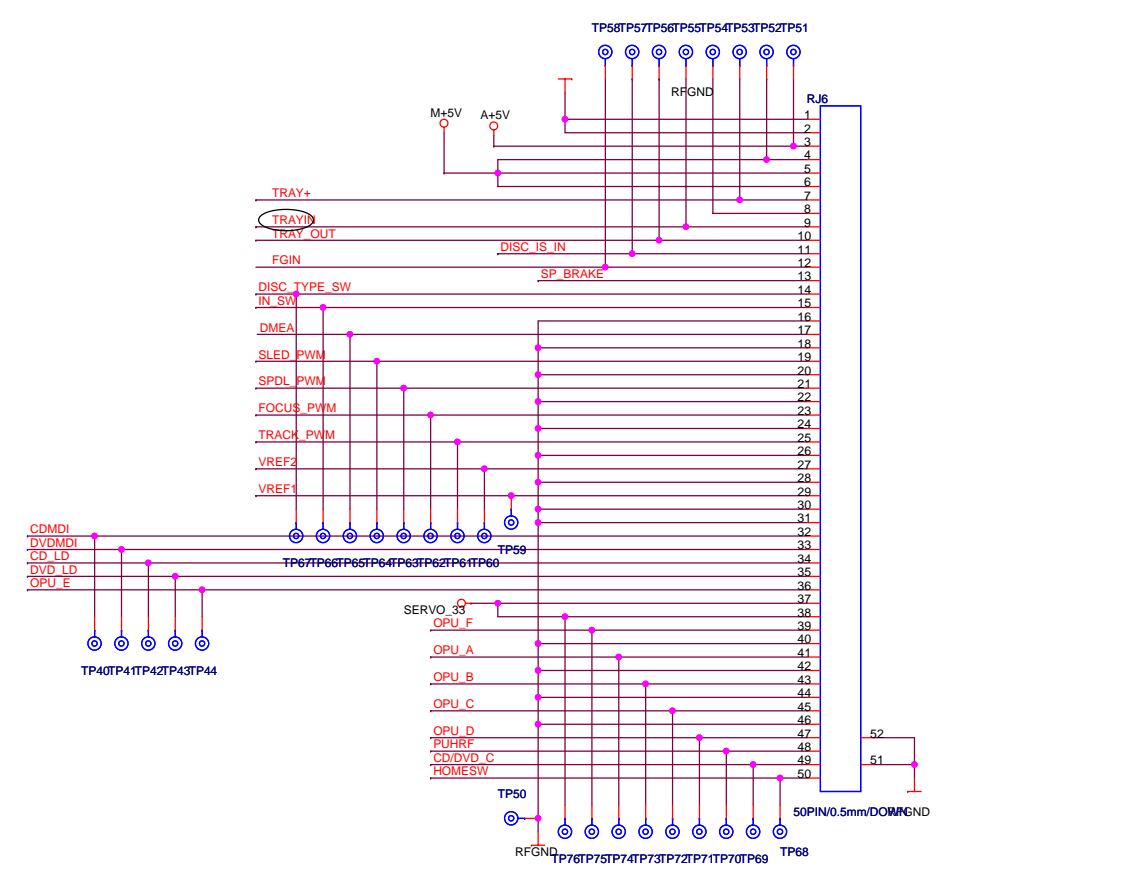
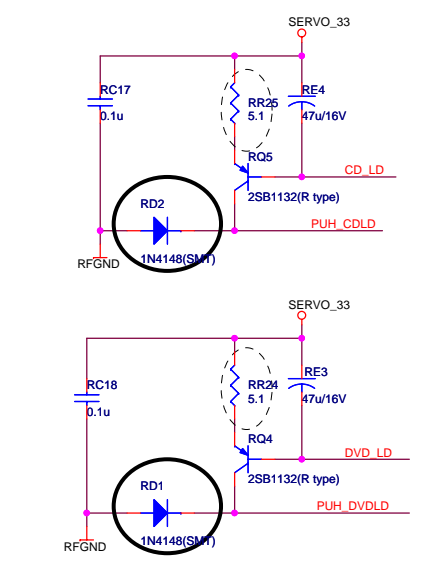
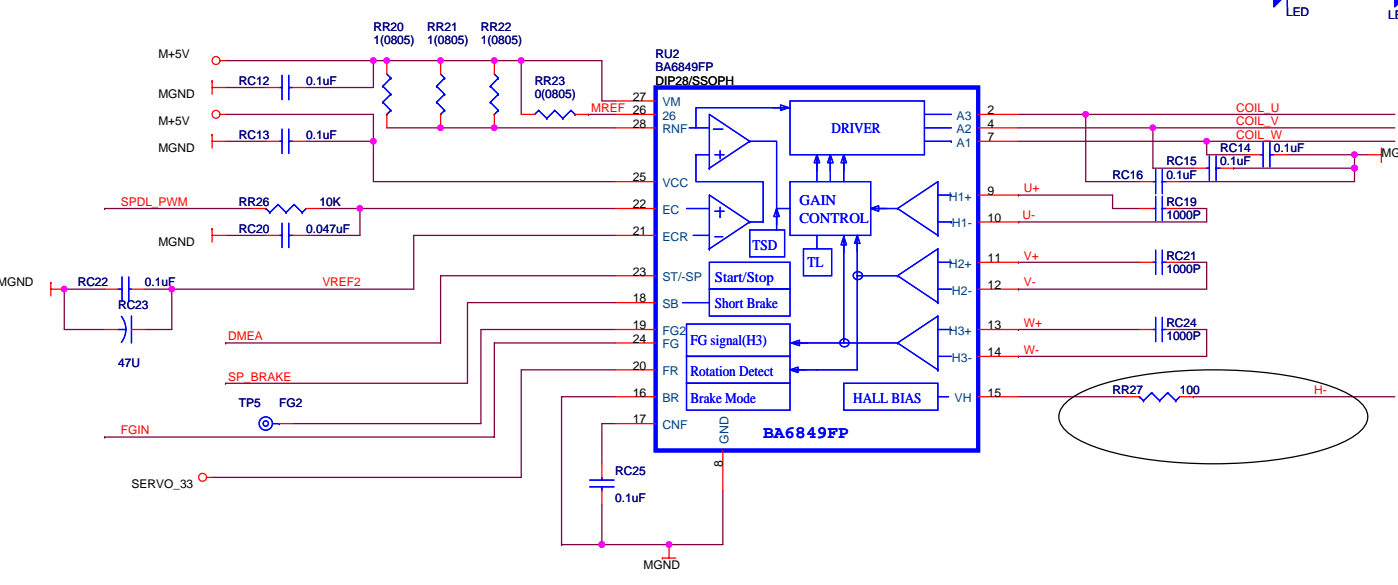
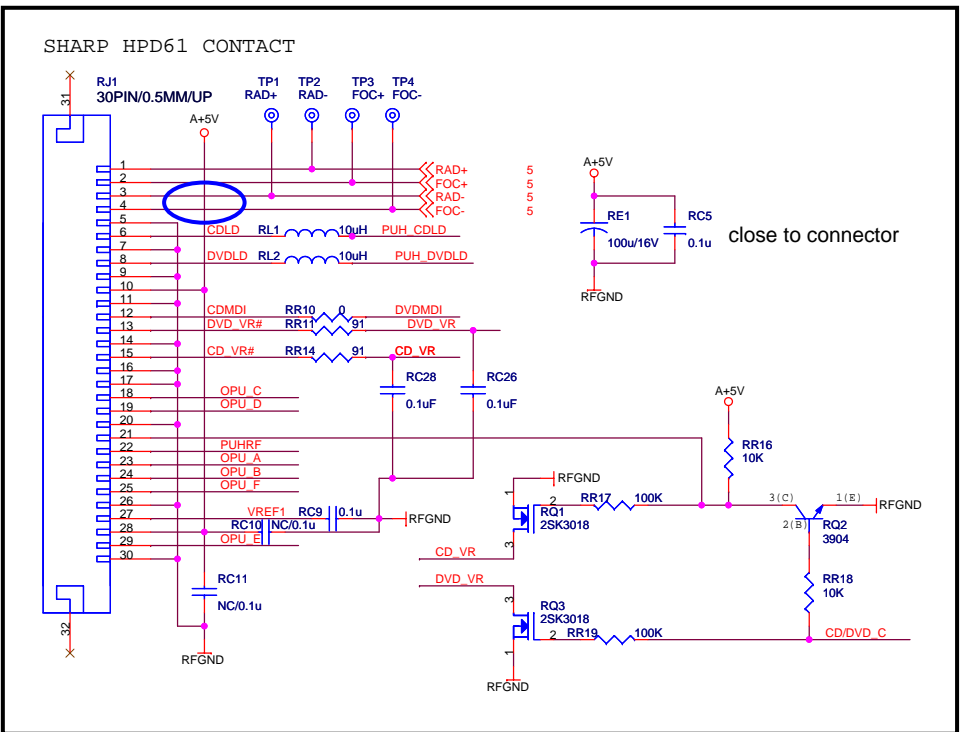
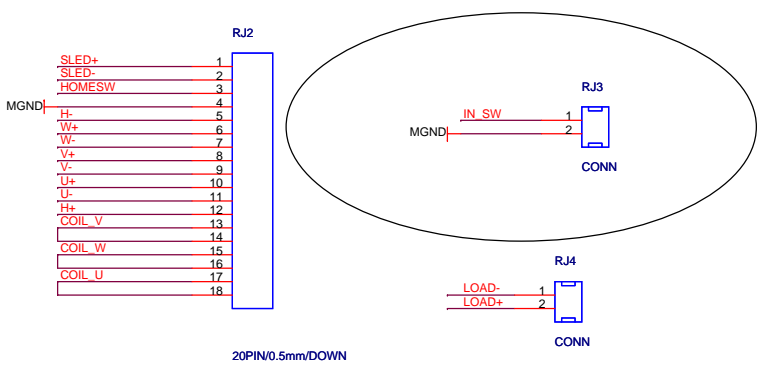
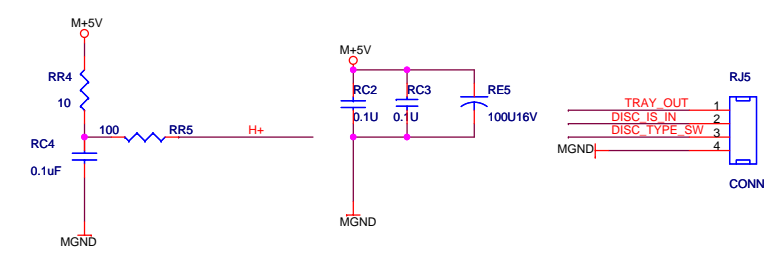
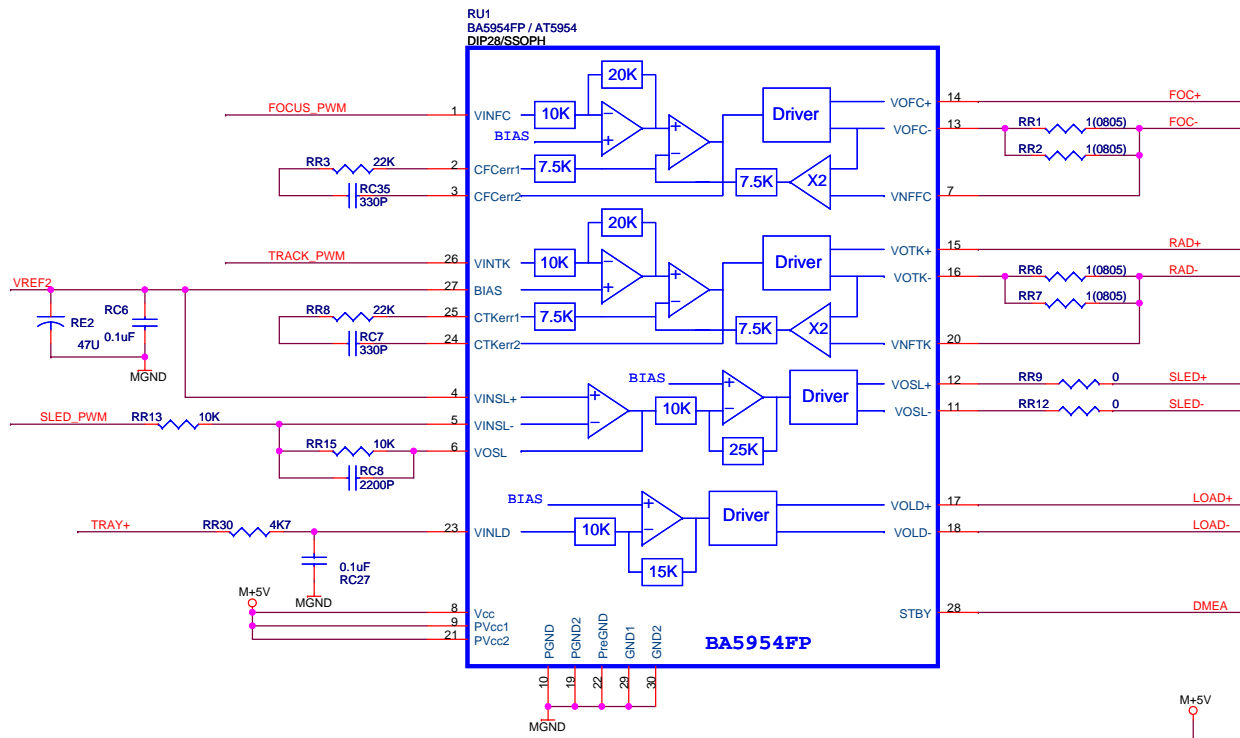
CIRCUIT DIAGRAM- TFT BOARD



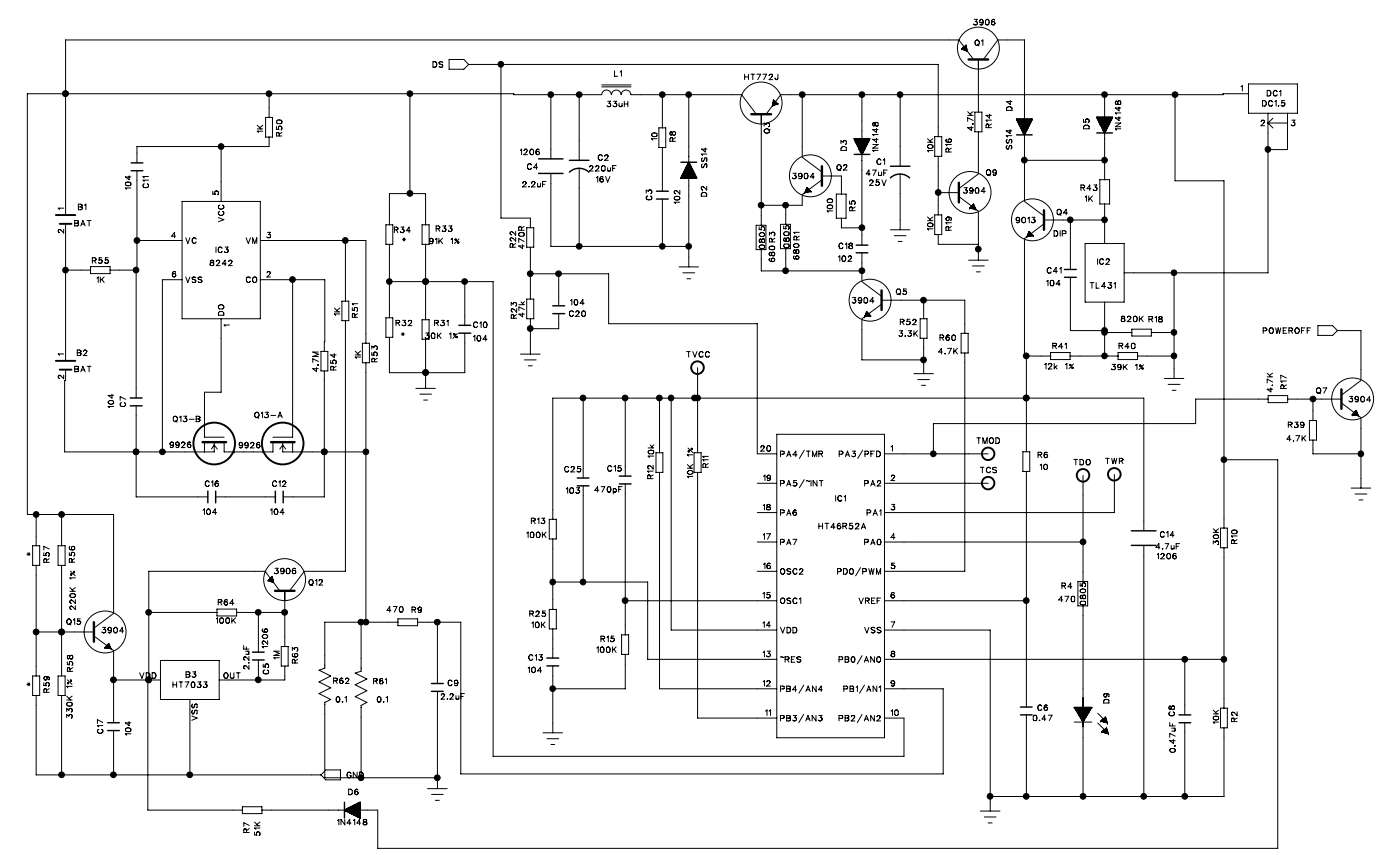
To Main Board

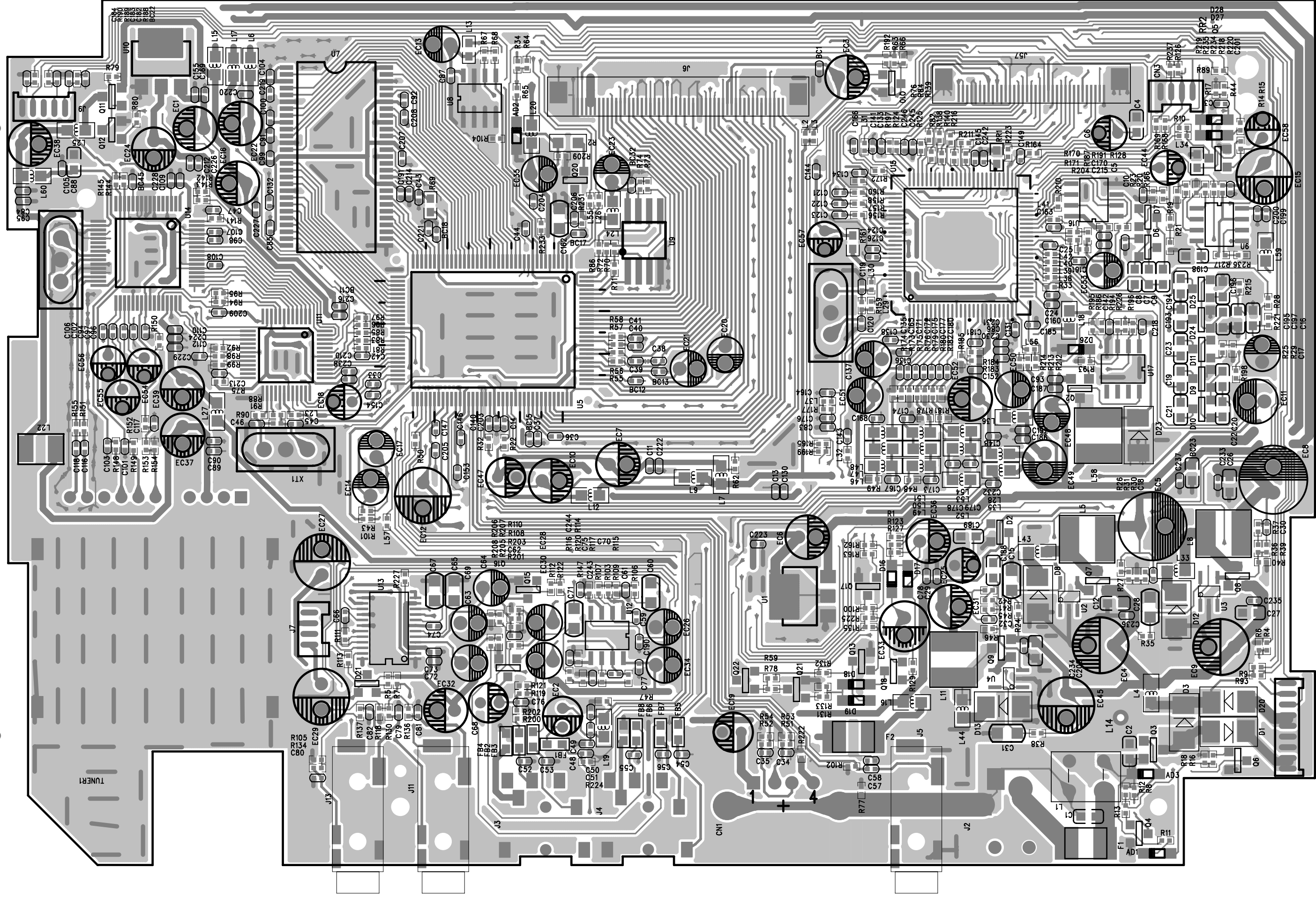


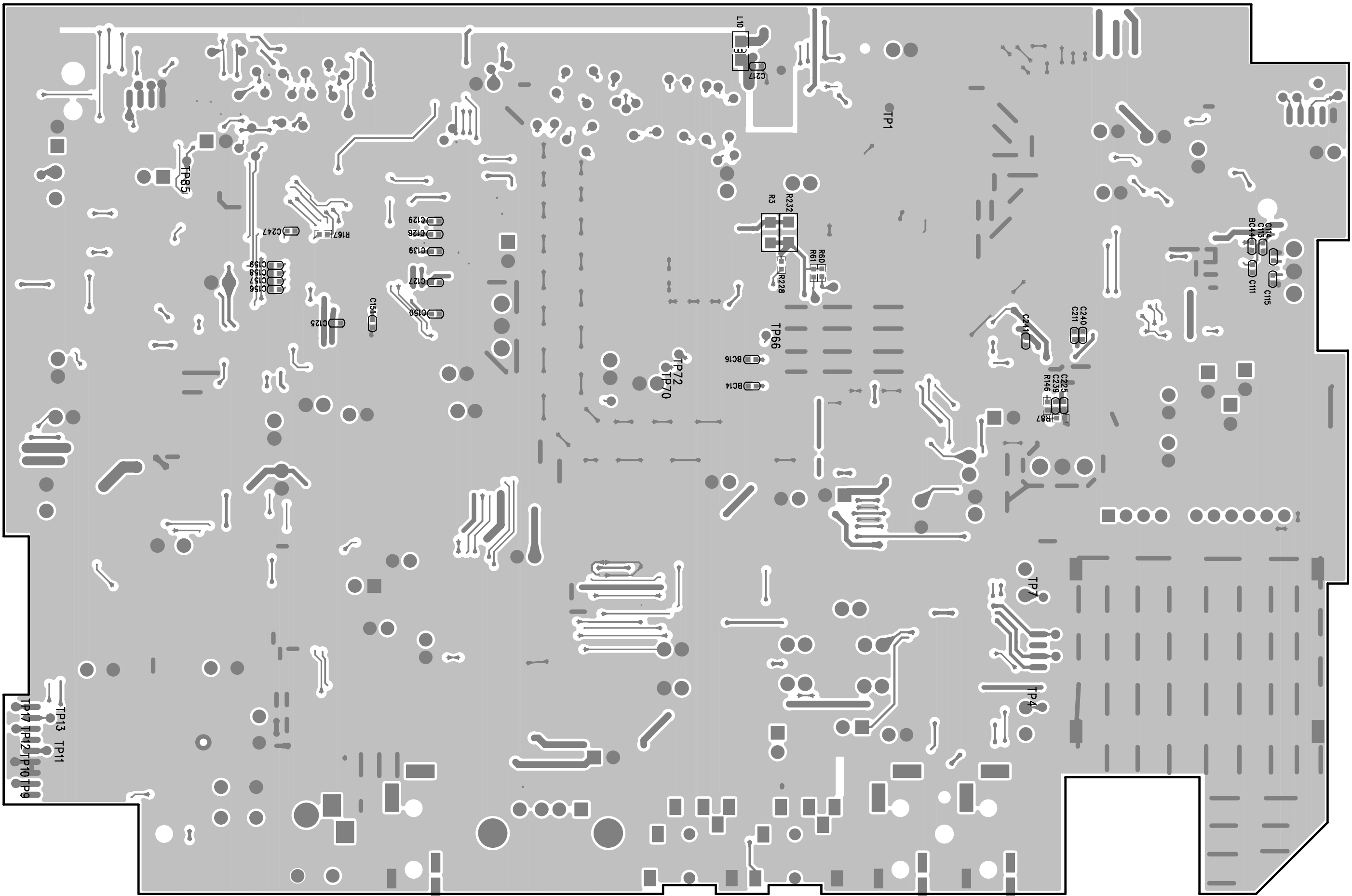
CIRCUIT DIAGRAM- RF&MOTOR DRIVER

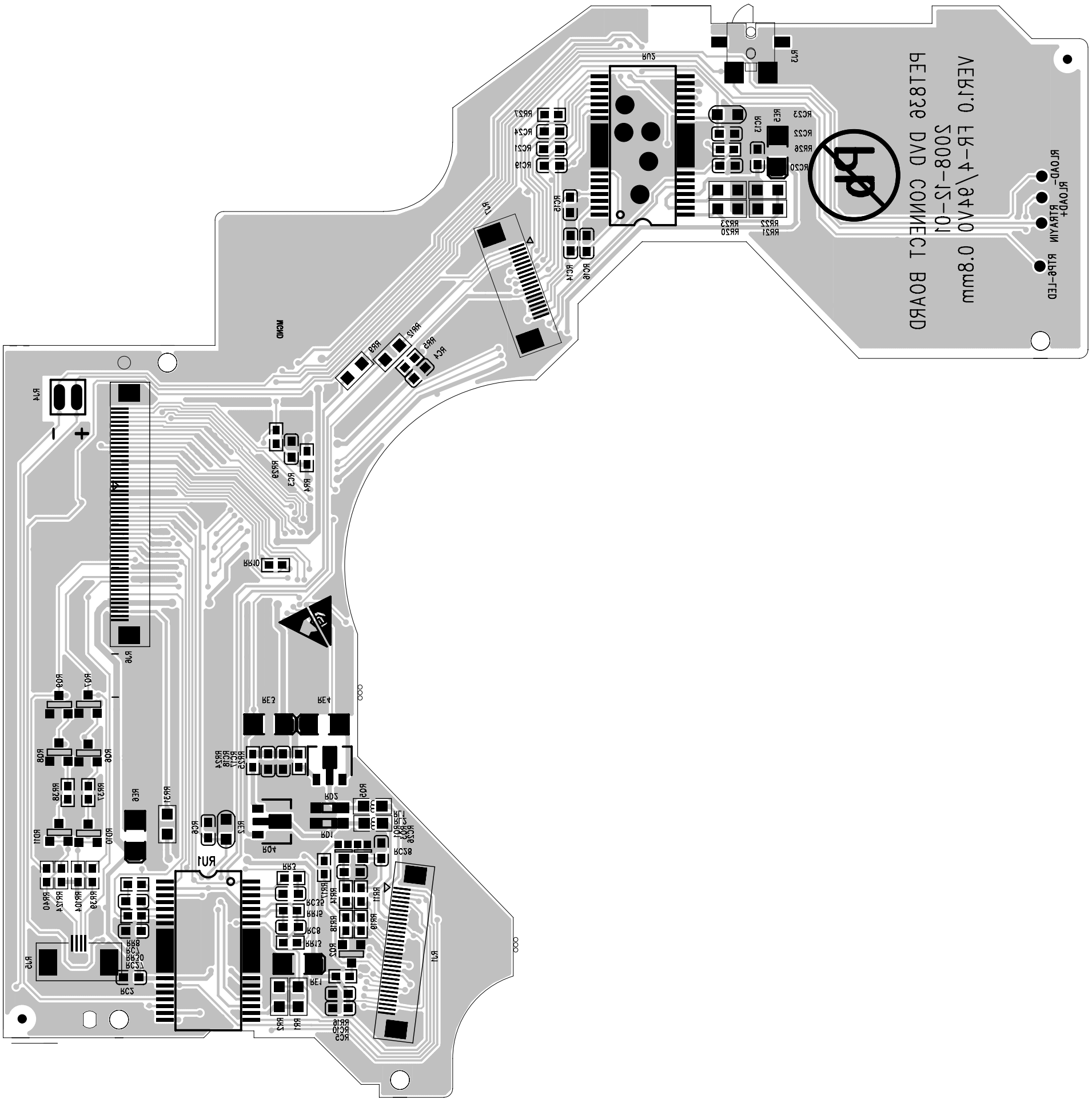


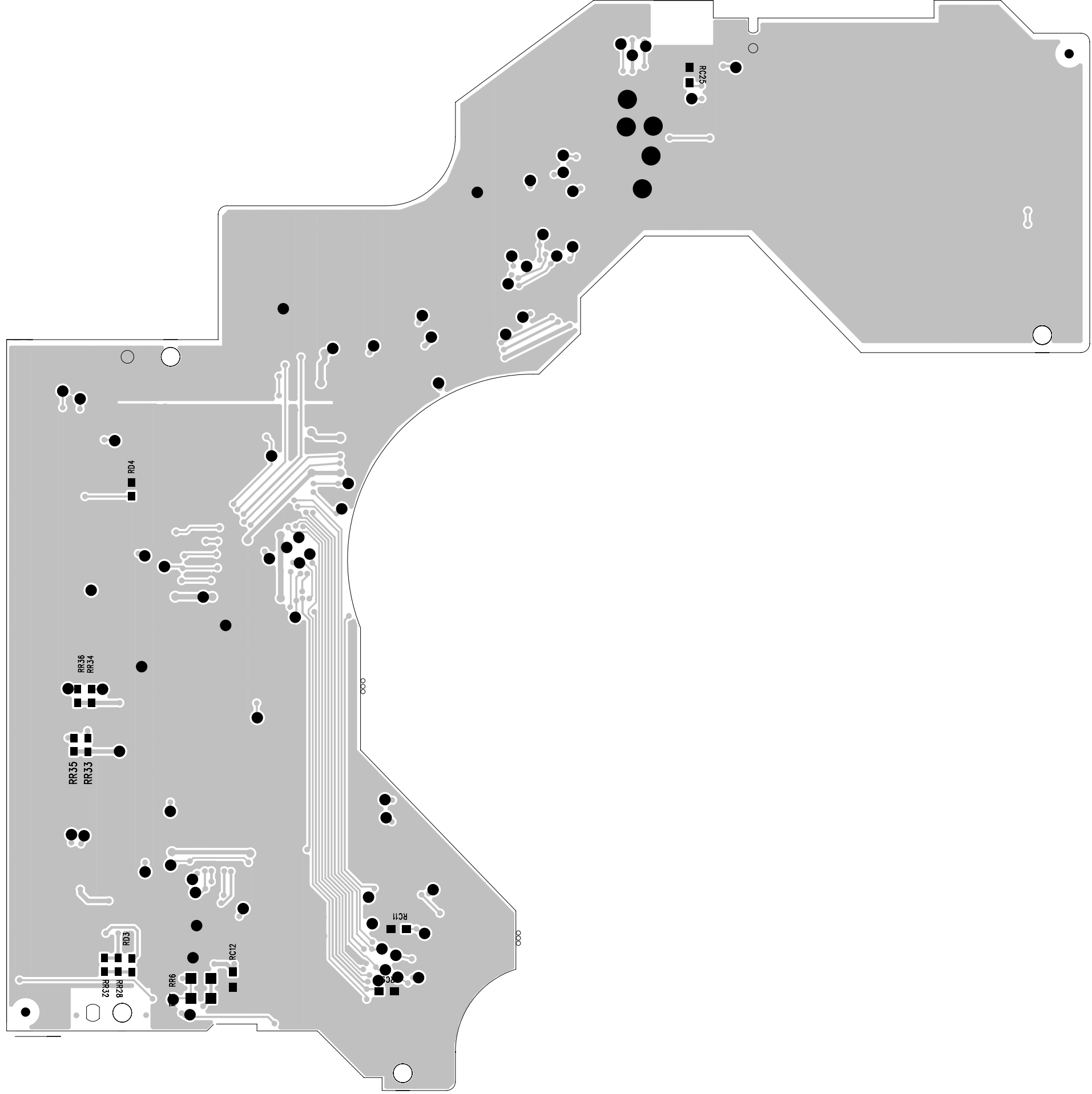
CIRCUIT DIAGRAM-BATTERY BOARD

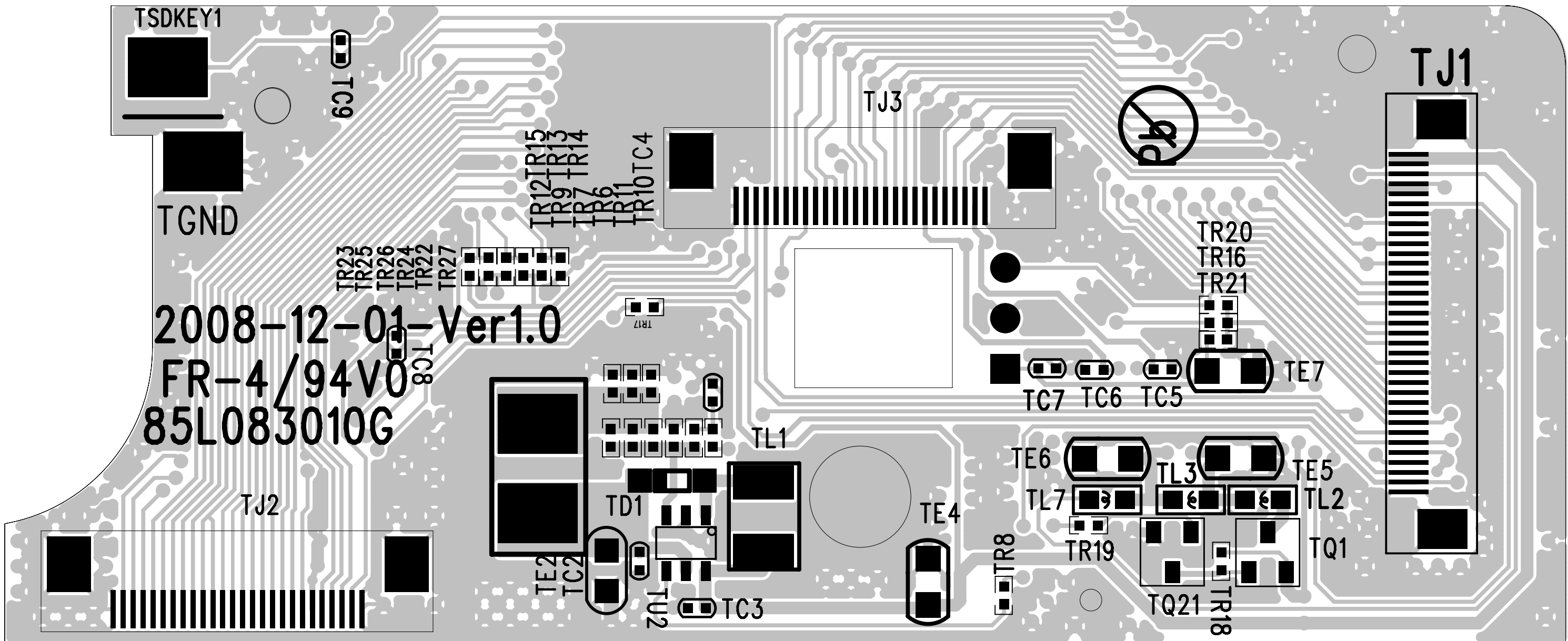


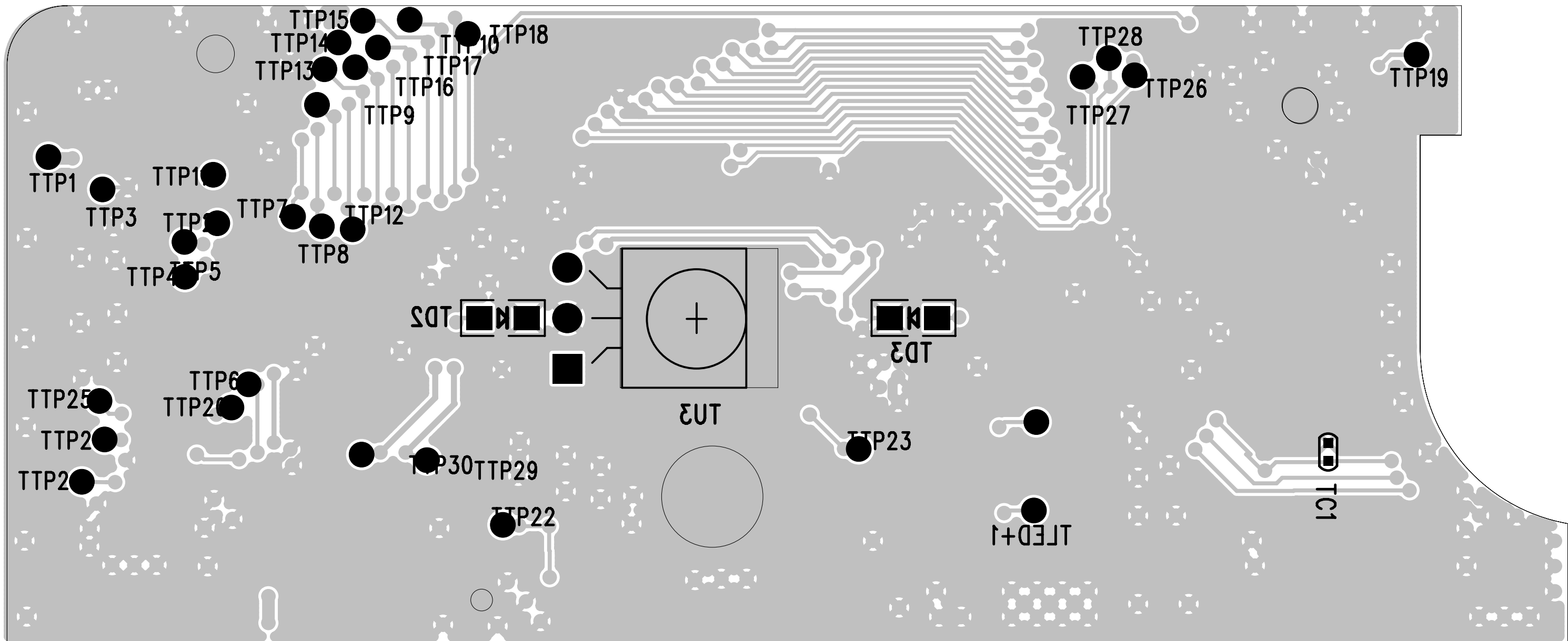


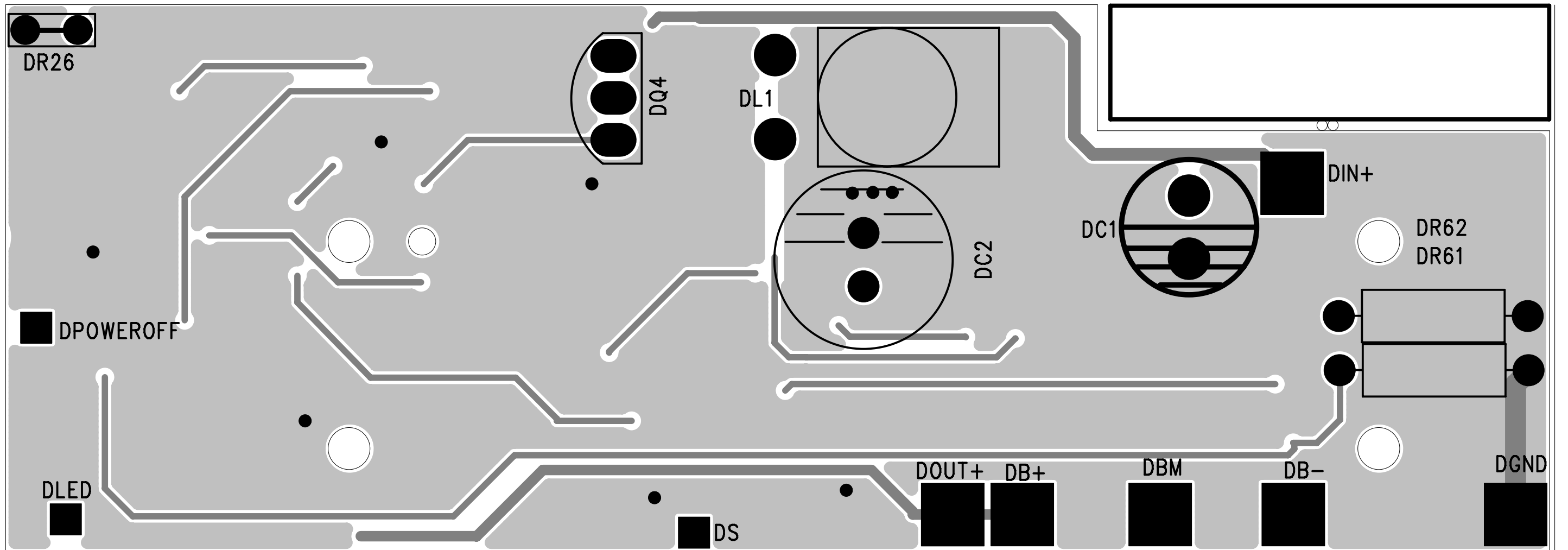


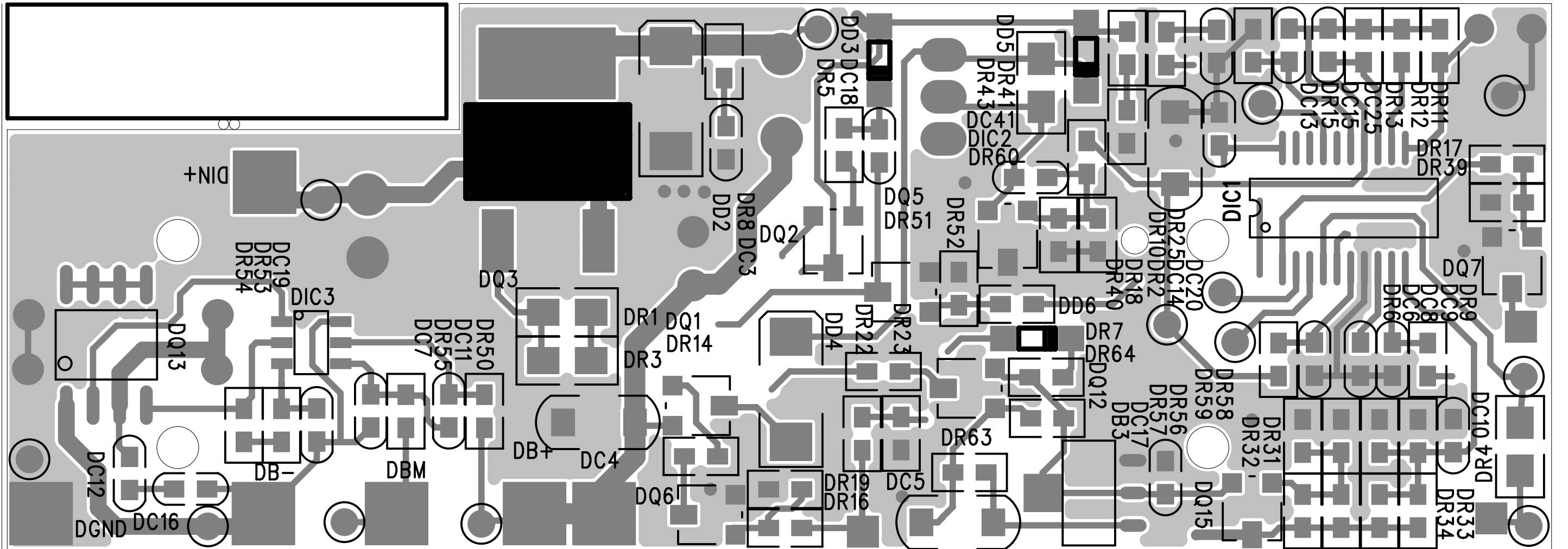


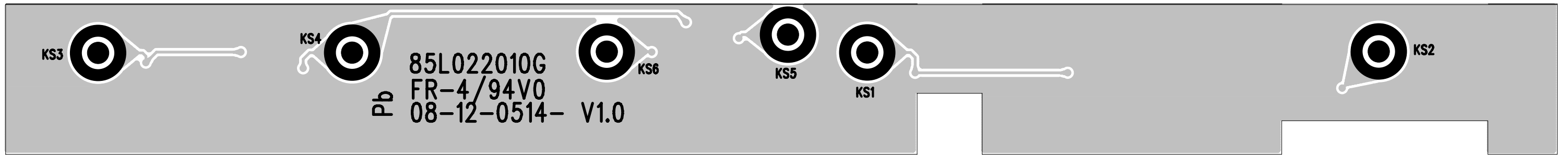


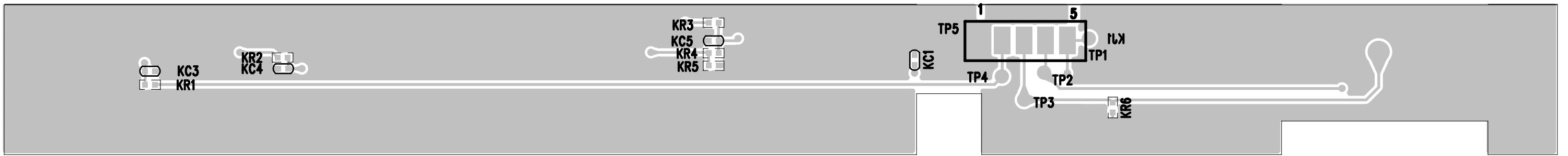


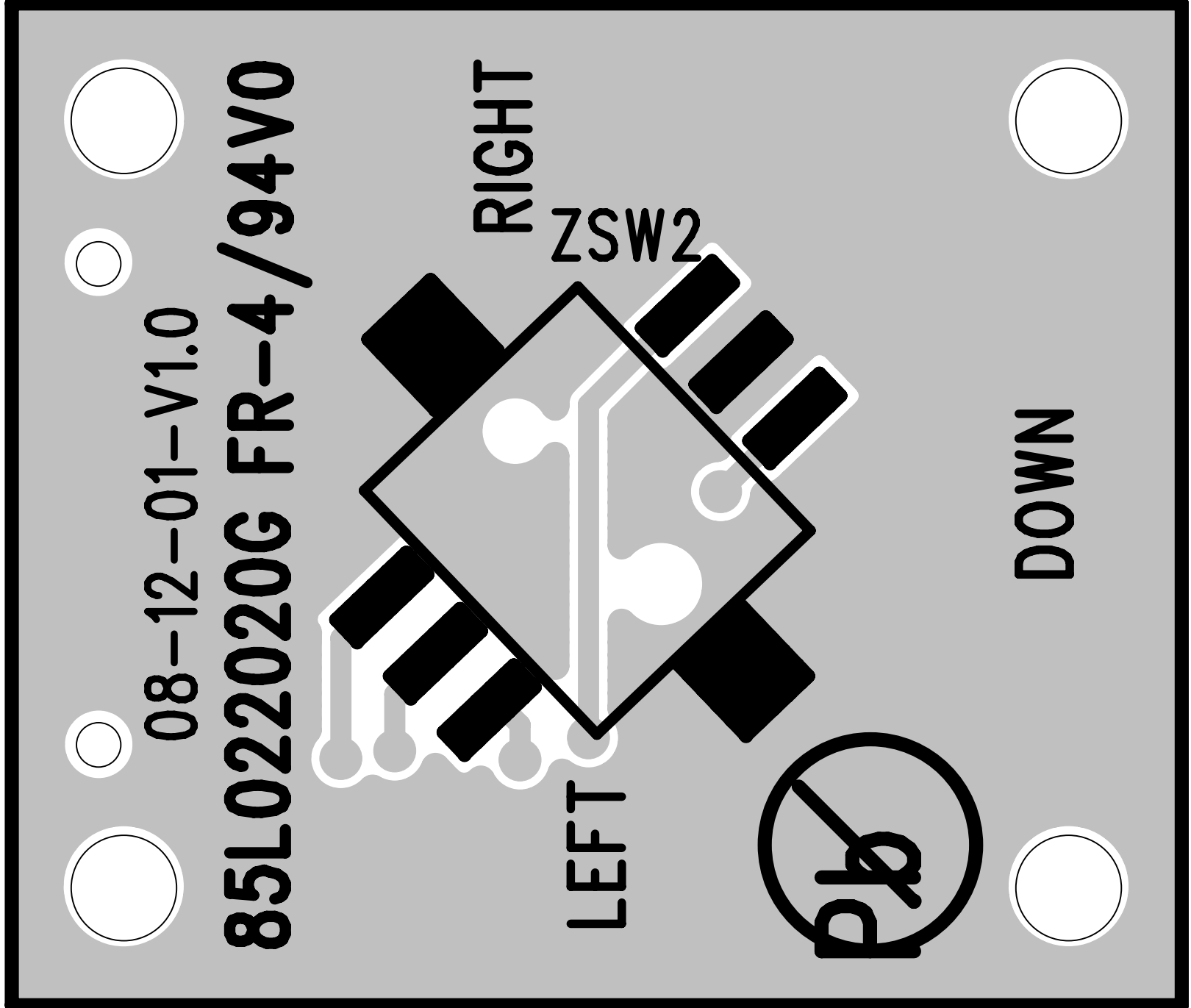


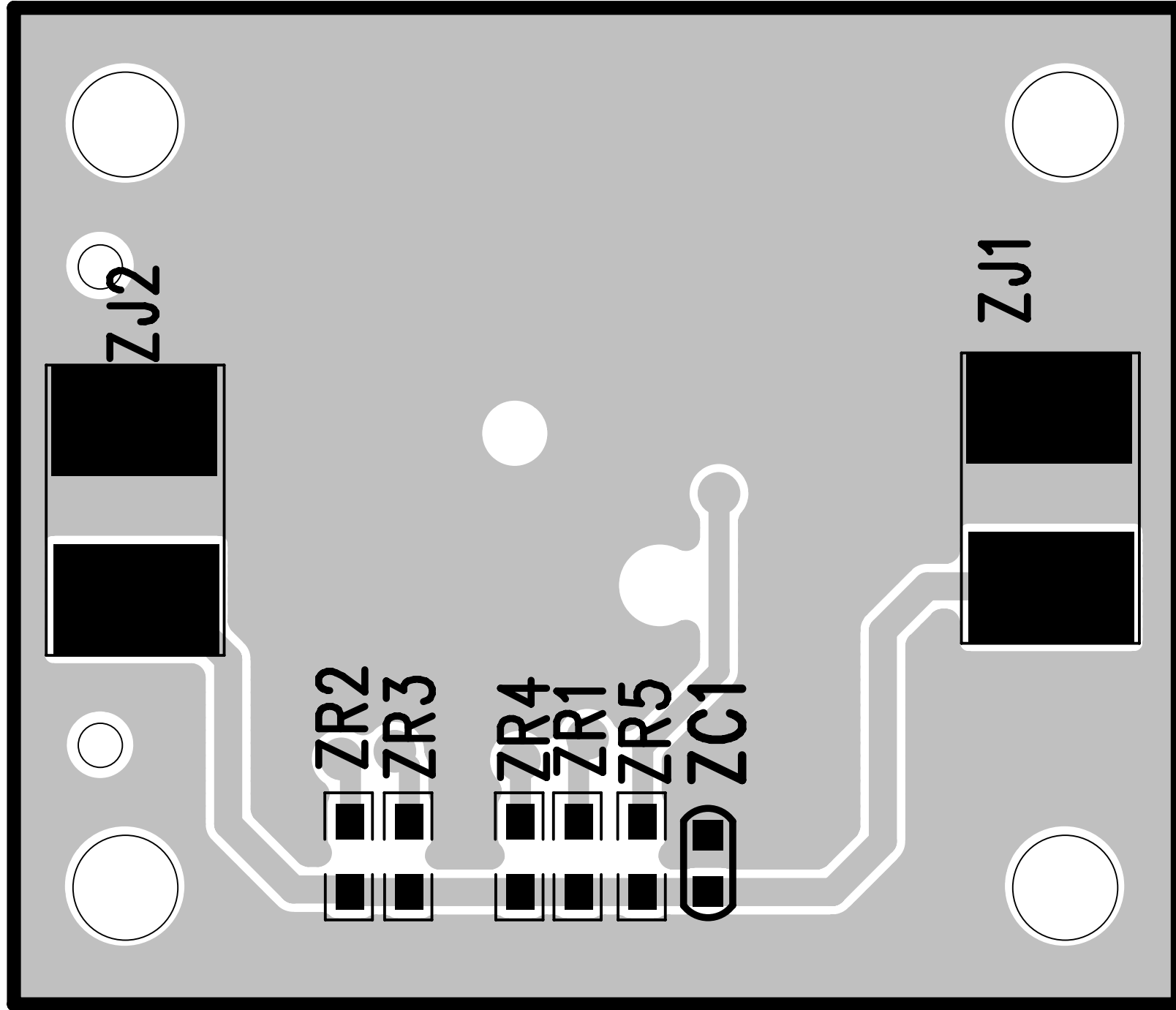






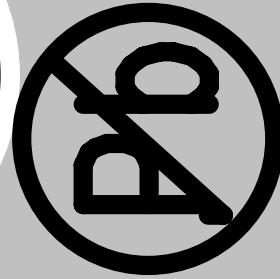
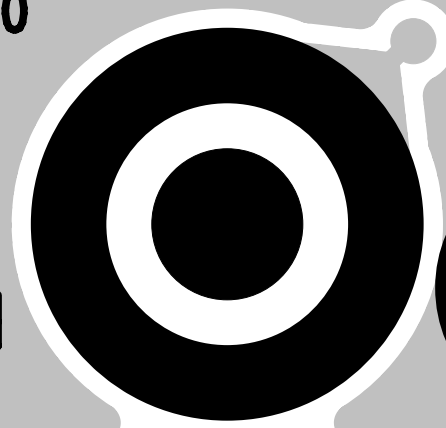


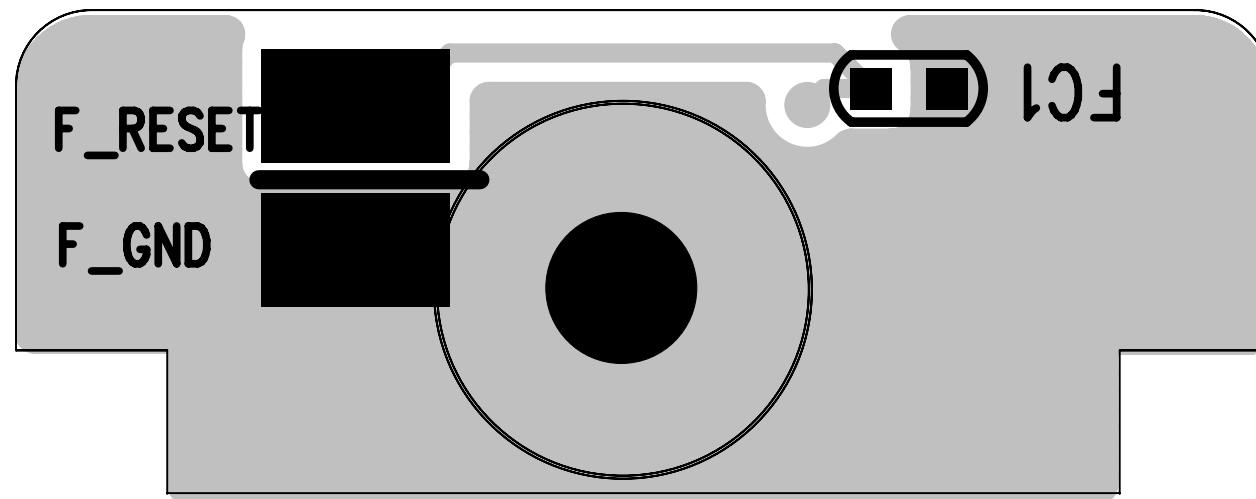




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FS1








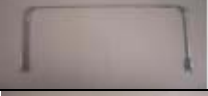


8.0 SERVICE PARTLIST

Electrical Part List:

CTN	Service 12NC	Service Description	Photo	Pos. No.
PET836/12	996510020967	MAIN PCBA (for serial number GS1A)		100
PET836/12	996510021687	MAIN PCBA (for serial number GS2B or VN1 above produced before wk925)		100
PET836/12	996510028831	MAIN PCBA (for serial number GS2B or VN1 above produced on or after wk925)		100
PET836/12	996510020621	KEY A PCBA		110
PET836/12	996510020655	TFT PCBA (for serial number GS1A)		120
PET836/12	996510021693	TFT PCBA (for serial number GS2B or VN1 above)		120
PET836/12	996510020622	KEY B+C PCBA		130
PET836/12	996510020633	BATTERY + BATT PCBA		140

8.0 SERVICE PARTLIST

Mechanical Part List:

CTN	Service 12NC	Service Description	Photo	Pos. No.
PET836/12	996510020656	8.4" CHIHHSIN PANEL ASSY (for serial number GS1A)		200
PET836/12	996510020694	8.4" CMO PANEL ASSY (for serial number GS2B and VN1 above)		200
PET836/12	996510020614 (In case EOL, refer to S/C# AM-09-058)	DVD LOADER (for the set produced before wk925)		210
PET836/12	996510028643	DVD LOADER SL1703H Topray OPU (for the set produced on or after wk925)		
PET836/12	996510020626	BACK CABINET		300
PET836/12	996510020627	STAND PC		310
PET836/12	996510029653	PANEL SLOT		320
PET836/12	996510020628	JOGGIN BUTTON		330







8.0 SERVICE PARTLIST

Mechanical Part List:

No.	Service 12NC	Service Description	Photo	Pos. No.
PET836/12	996510020629	LINE UP KNOB		340
PET836/12	996510020630	POWER BUTTON		350
PET836/12	996510020631	EJECT BUTTON		360
PET836/12	996510020632	LATCH STAND POM		370
PET836/12	996510028641	DISPLAY FRAME & SPK		380
PET836/12	996510020623	PRESS UP BRACKET		400
PET836/12	996510020624	PRESS DOWN BRACKET		410
PET836/12	996510020625	PRESS METAL PLATE		420
PET836/12	996510028639	FFC 35P/0.5MM 125MM		430
PET836/12	996510020618	FFC 50P/0.5MM 200MM		440
PET836/12	996510020619	HOUSE UL#28 4P/1.25MM		450

8.0 SERVICE PARTLIST

Accessories Part List:

CTN	Service 12NC	Service Description	Photo	Pos. No.
PET836/12	996510013225	CAR ADAPTER		CARAPT
PET836/12	996510020968	AC ADAPTER (for serial number GS1A)		ADAPT
PET836/12	996510021689	AC ADAPTER (for serial number GS2B or VN1 above)		ADAPT
PET836/12	996510004975	AV CABLE		AVCABLE
PET836/12	996510012446	CAR MOUNT		CARMOUNT
PET836/12	996510020969	ROD ANTENNA DVB-T-1		ANT
PET836/12	996510021688	TV ATTENUATOR		ATTENUATOR
PET836/12	996510020616	REMOTE CONTROL 35KEY		RC

9.0 REVISION LIST

Version 1.0 (3141 785 33240)

- Initial release PET836/12

Version 1.1 (3141 785 33241)

- Update partlist for PET836/12 alt 2 SBOM

Version 1.2 (3141 785 33242)

- Update partlist for PET836/12 Topray SBOM