



Service Manual

JBL PARTYBOX710

PARTY SPEAKER WITH 800W RMS POWERFUL SOUND, BUILT-IN LIGHTS AND SPLASHPROOF DESIGN

SKU: JBLPARTYBOX710AM, JBLPARTYBOX710AS, JBLPARTYBOX710BR, JBLPARTYBOX710CN,
JBLPARTYBOX710EU, JBLPARTYBOX710IN, JBLPARTYBOX710RU



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Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. Do not expose batteries to excessive heat such as sunshine, fire or the like.



For Products That Transmit and Receive RF Energy:

FCC Regulations (USA Only)

FCC Information For Users

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; and (2) this device must accept any interference received, including interference that may cause undesired operation.

Radio and Television Interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and then on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment to a different outlet so that the equipment and receiver are on different branch circuits.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE: Changes or modifications not expressly approved by Harman could void the user's authority to operate the equipment.

IC Statement and Warning (Canada Only)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Canadian Model

This Class B digital apparatus complies with Canadian ICES-003.

Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

For Products with Radio Receivers That Can Use an External Antenna:

CATV or Antenna Grounding

If an outside antenna or cable system is connected to this product, be certain that it is grounded so as to provide some protection against voltage surges and static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements of the grounding electrode.

Note to CATV System Installer:

This reminder is provided to call the CATV (cable TV) system installer's attention to article 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

For CD/DVD/Blu-ray Disc™ Players:

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.



THE LIGHTNING FLASH WITH AN 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 PRODUCT.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

Caution:

This product uses a laser system. To prevent direct exposure to the laser beam, do not open the cabinet enclosure or defeat any of the safety mechanisms provided for your protection. DO NOT STARE INTO THE LASER BEAM. To ensure proper use of this product, please read the owner's manual carefully and retain it for future use. Should the unit require maintenance or repair, please contact your local Harman Kardon service center. Refer servicing to qualified personnel only.

For Products That Include Batteries:



Instructions for Users on Removal and Disposal of Used Batteries.

CAUTION

Risk of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Alkaline batteries are considered nonhazardous. Rechargeable batteries (i.e., nickel cadmium, nickel metal-hydride, lithium and lithium-ion) are considered hazardous household materials and may pose an unnecessary health and safety risk.

In the European Union and other locations, it is illegal to dispose of any battery with household trash. All batteries must be disposed of in an environmentally sound manner. Contact your local waste management officials for information regarding the environmentally sound collection, recycling and disposal of used batteries.

To remove the batteries from your equipment or remote control, reverse the procedure described for inserting batteries in the owner's manual.

For products with a built-in battery that lasts for the lifetime of the product, removal may not be possible for the user. In this case, recycling or recovery centers handle the dismantling of the product and the removal of the battery. If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers.

ELECTROSTATICALLY SENSITIVE(ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor "chip" components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.



1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge build-up or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical change sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

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

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

POODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing.

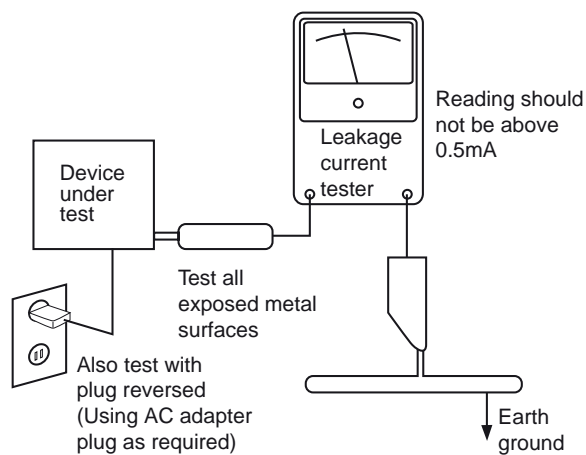
Components identified with the IEC symbol  in the parts list are special significance to safety. When replacing a component identified with , use only the replacement parts designated, or parts with the same ratings or resistance, wattage, or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.



PARTYBOX710

PARTY SPEAKER WITH 800W RMS POWERFUL SOUND, BUILT-IN LIGHTS AND SPLASHPROOF DESIGN



What's in the box:

Partybox
Power cable
Quick start guide
Warranty card

Features and Benefits:

JBL original pro sound
Dynamic, colorful, customizable lightshow
IPX4 splashproof
Pair your speakers for even bigger sound
Easy-go-grip handle and robust wheels
MIC and guitar inputs

Technical Specification:

- Product name: PARTYBOX710
- AC power input: 100 - 240 V ~ 50/60 Hz
- Power consumption: 160 W
- Total output power: 800 W RMS
- Standby power consumption: < 2 W with BT Connection; < 0.5 W without BT Connection
- USB output: 5 V 2.1 A
- Speaker drivers: Transducers: 2 x 216 mm (8") woofer, 2 x 70 mm (2.75") tweeter
- Signal-to-noise (S/N) ratio: > 80 dBA
- Frequency response: 50 Hz - 20 kHz
- Bluetooth version: 5.1
- Bluetooth profile: A2DP v1.3, AVRCP v1.6
- Bluetooth transmitter frequency range: 2.402 - 2.48 GHz
- Bluetooth maximum transmitter power: 9 dBm (EIRP)
- Bluetooth transmitter modulation: GFSK, $\pi/4$ DQPSK, 8DPSK
- USB format: FAT 16, FAT 32
- USB file format: .mp3, .wma, .wav
- Digital input: Bluetooth / USB -12 dBFS
- Input sensitivity: AUX in: 250 mV rms Microphone: 20 mV rms Guitar: 100 mV rms
- Product dimensions (W x H x D): 399 mm x 905 mm x 436 mm / 15.7" x 35.6" x 17.2"
- Net weight: 27.8 kg/ 61.3 lbs
- Packaging dimensions (W x H x D): 1048 mm x 505 mm x 467 mm / 41.26" x 19.88" x 18.39"
- Gross weight: 31 kg / 68.34 lbs



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Update Method for Harman Party Box 710

1. Restore factory setting

- 1) Turn on the machine, make sure it is working
- 2) Press and hold the "Play" key and "LIGHT" key for 10s to restore factory setting.
- 3) The machine all LEDs will light on for 2 seconds after restore successfully and then restart automatically.

2. Check software version

- 1) Turn on the machine, make sure it is working
- 2) Press and hold the "BASS BOOST" key and "BT" key for 2s to check the software version.

3. USB update method

- 1) Copy software to an empty USB(named as PB710_ALL_XXXXXXX_Vx.xx.x.bin,such as PB710_ALL_20210603_V1.15.0.bin or PB710_ALL_20210612_V1.16.0.bin)
- 2) Set power on(plug in the AC cable, and press the Power button)
- 3) Press PLAY & Bluetooth key over 10 sec at same time, Set will enter DFU mode, and LED will show RED



- 4) Insert USB
- 5) Set will auto update and LED show white for percentage(Attention : Don't pull out USB and AC power during update)



Attention: Don't Pull out USB and AC power during update

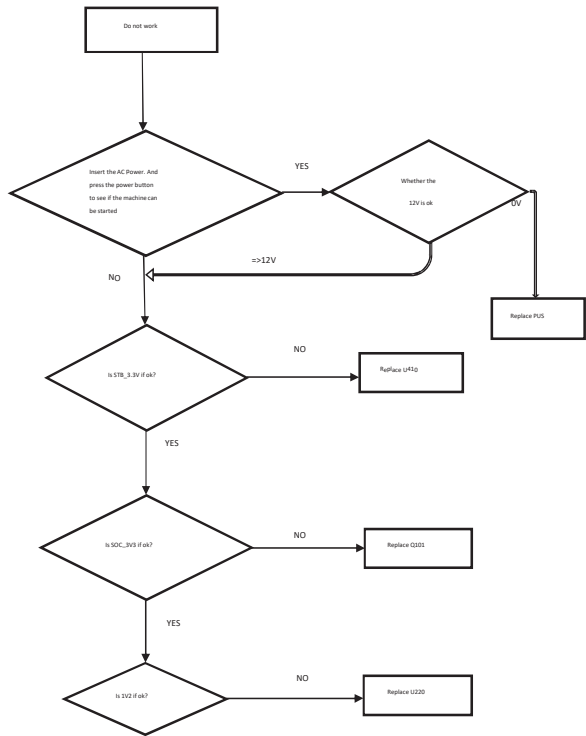
- 6) Wait for about 10~15 sec, If LED show green indication update finished. (DUT will broadcast version number in voice), Please pull out USB, set will auto power off.



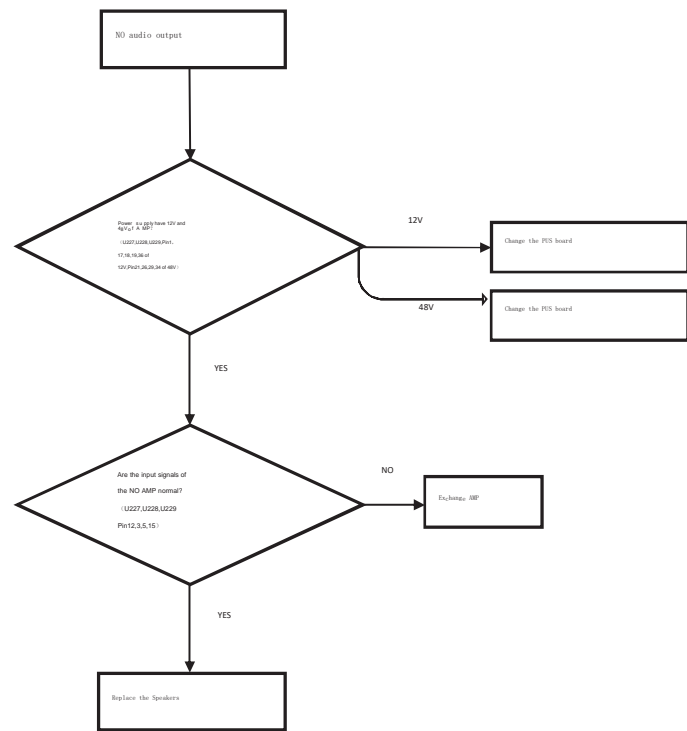
TROUBLE SHOOTING

| | | | | |
|--------------------------------|---------------------|-------------------------|---------------------|----------------------|
| Oscilloscope Setting Values | Check DC voltage | Check I&B I&S signal | check PWM signal | Check L+L- signal |
| Voltage/DIV | Depend voltage | 1V/div | 20V/div | 20V/div |
| TIME/DIV | 500ms/div | 20us/div | 1us/div | 500us/div |

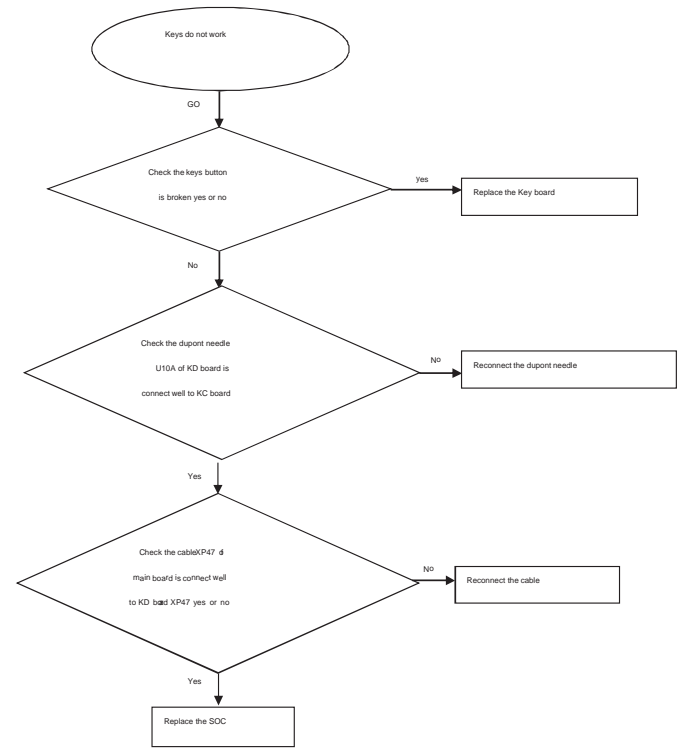
1. If press the power button, the device does not work, Please check the power flow as blow:



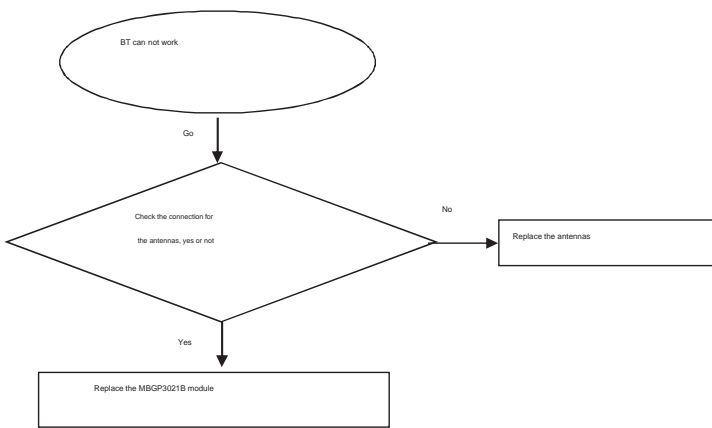
2. No audio output



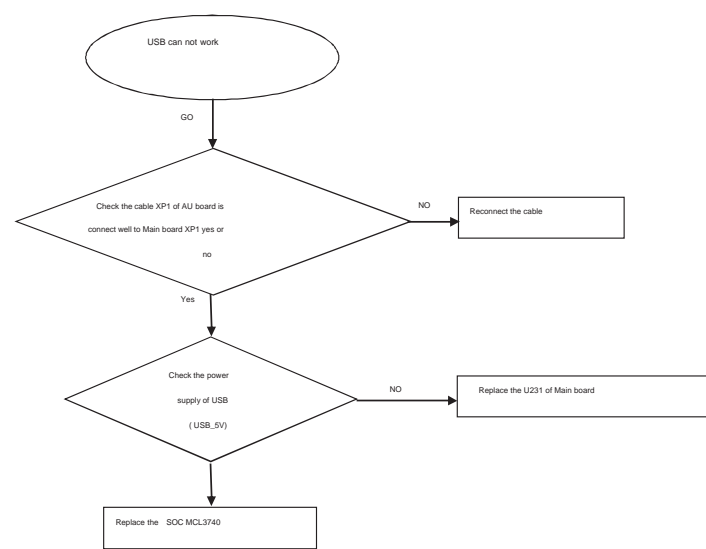
3. Keys do not work



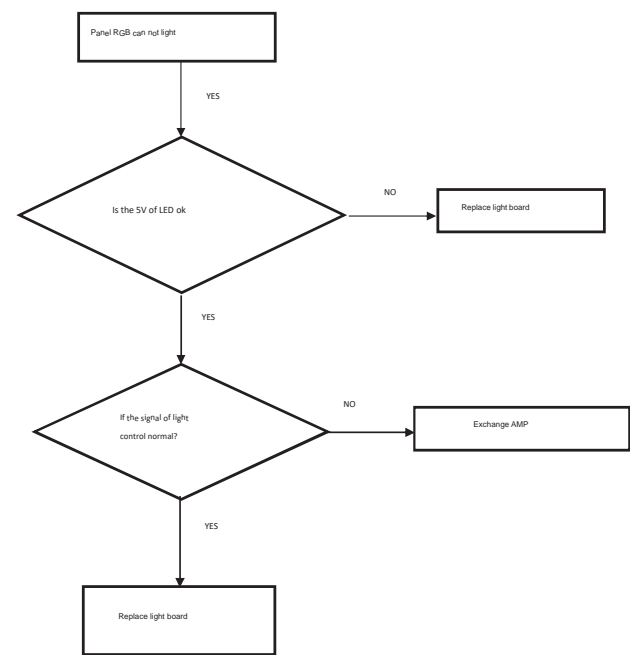
4. BT can not work



5. USB can not work



6. Panel RGB can not light



DISASSEMBLY INSTRUCTIONS

Dismantling of the Top Cover

- 1) Tear off 3 screw cover sheets, 2 rubber feet, 2 handle covers, and 1 top cover control panel;
remove 2 volume knobs, and 3 function knobs at Top Cover.

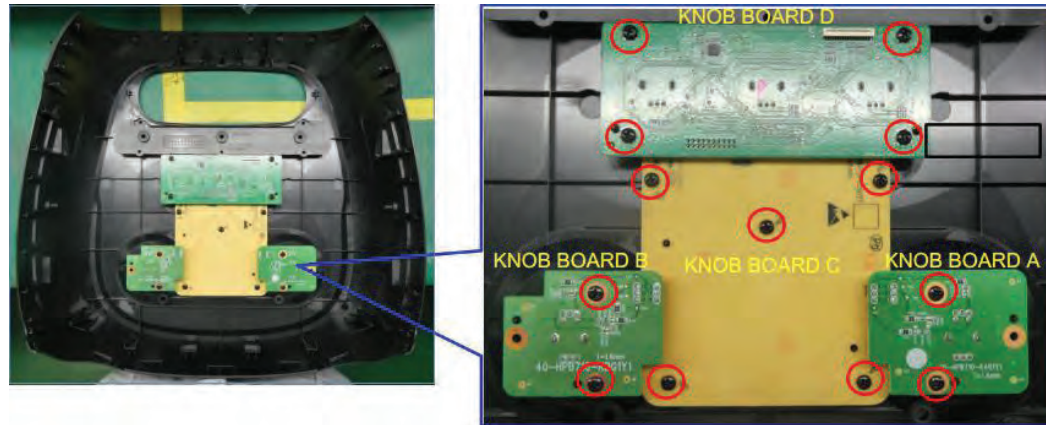


- 2) Loosen 5 screws at Top Cover, 4 screws at Side Cover, 2 screws at Handle, and then carefully separate the Top Cover.



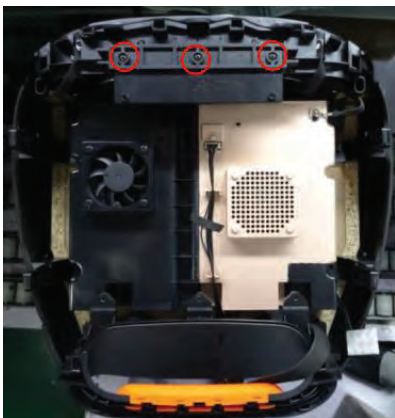
Dismantling of the KNOB BOARD A& KNOB BOARD B& KNOB BOARD C &KNOB BOARD D

- 1) Loosen 2 screws on the top of KNOB BOARD A.
- 2) Loosen 2 screws on the top of KNOB BOARD B.
- 3) Loosen 5 screws on the top of KNOB BOARD C.
- 4) Loosen 4 screws on the top of KNOB BOARD D.

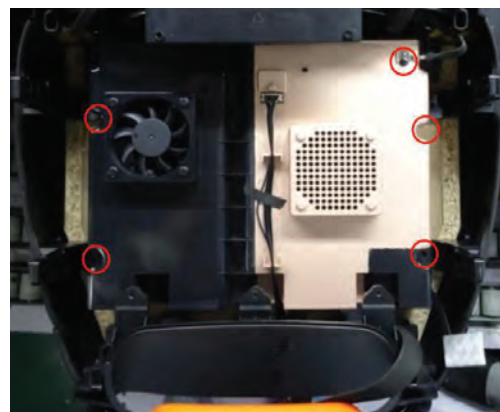


Dismantling of Front Cover Convert Bracket and Fireproof Cover

- 1) Loosen 3 screws at Front Cover Convert Bracket, and then carefully separate Front Cover Convert Bracket.

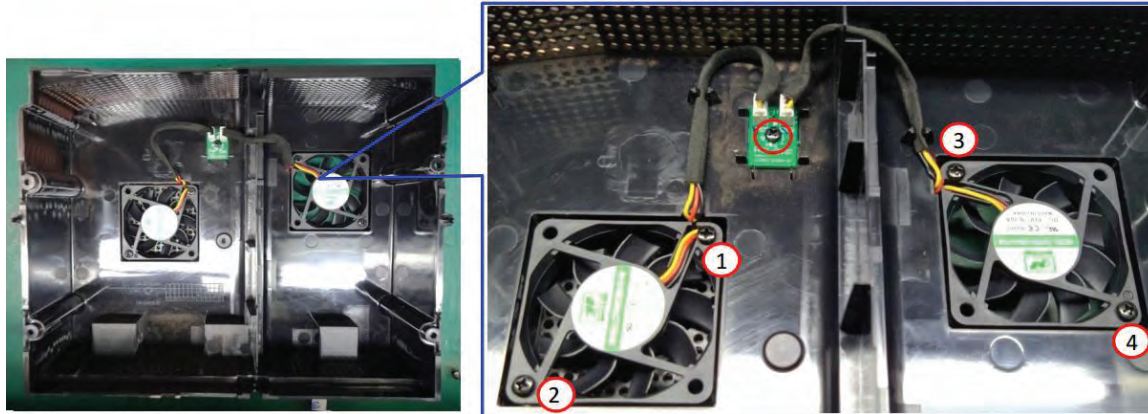


- 2) Loosen 5 screws at Fireproof Cover, and then carefully take out the Fireproof Cover.



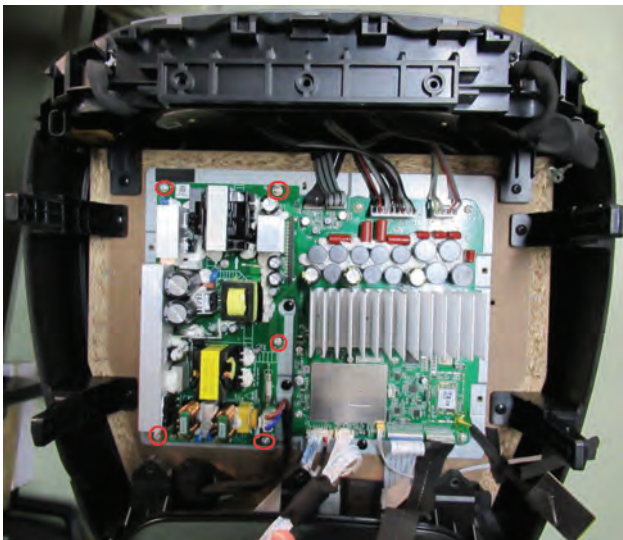
Dismantling of Fan and Fan Adapter Board

Loosen 4 screws at Fan, and 1 screw on the Fan Adapter Board.

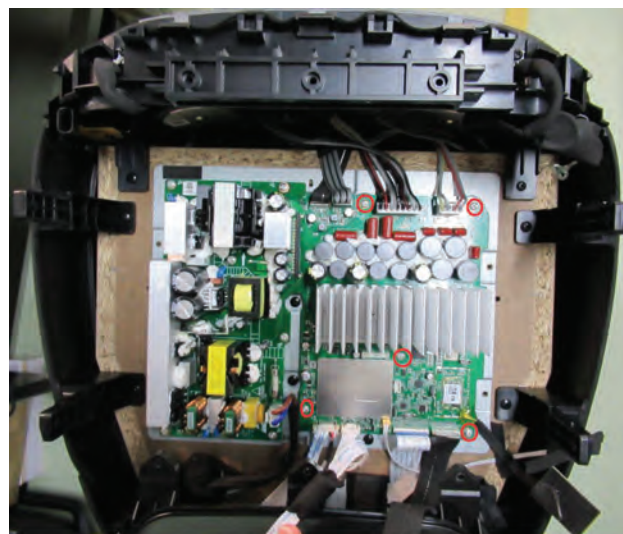


Dismantling of Power Board and Main Board

1) Loosen 5 screws on the Power Board.



2) Loosen 5 screws on the Main Board.

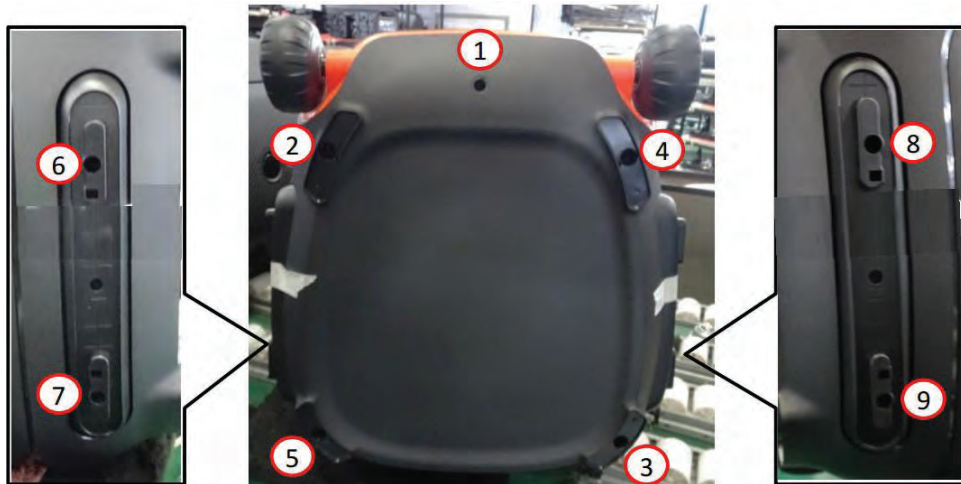


Dismantling of Bottom Cover

1) Tear off 1 screw cover sheet, 6 rubber feet.



2) Loosen 5 screws at Bottom Cover and 4 screws at Side Cover to remove the Bottom Cover.



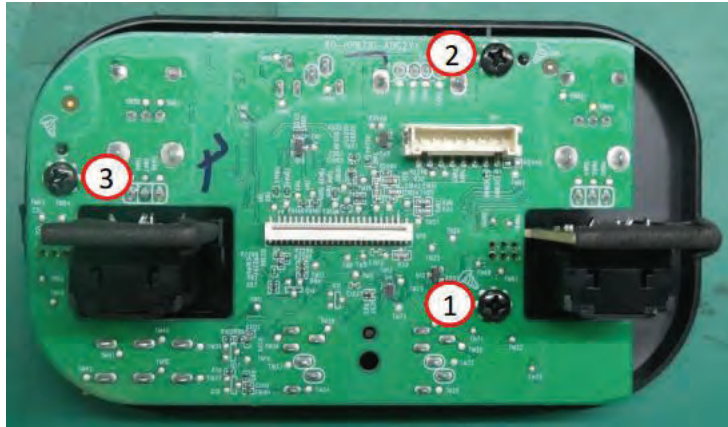
Dismantling of Terminal Panel

Remove 1 Backboard Decoration PC Sheet and 2 MIC buttons to separate the Terminal Panel.



Dismantling of TERMINAL BOARD&GUITAR BOARD&MIC BOARD

Loosen 3 screws on the top of TERMINAL BOARD.



Dismantling of Rear Cover

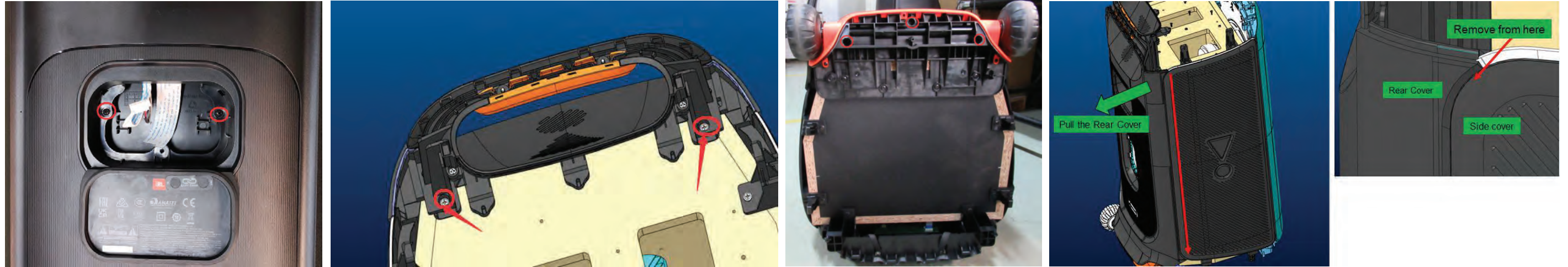
1) Remove the Port Tube Decoration Cover.



2) Loosen 4 screws at the Port Tube.

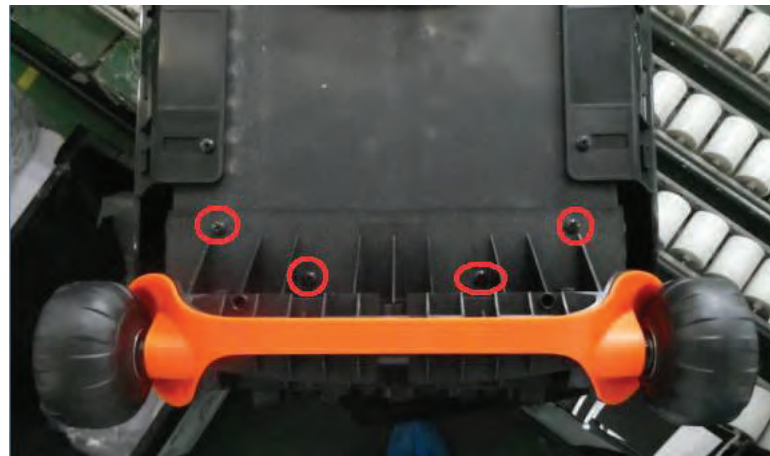


3) Loosen 4 screws at the Rear Cover, 3 screws at the Wheel Bracket ASSY to remove the Rear Cover.



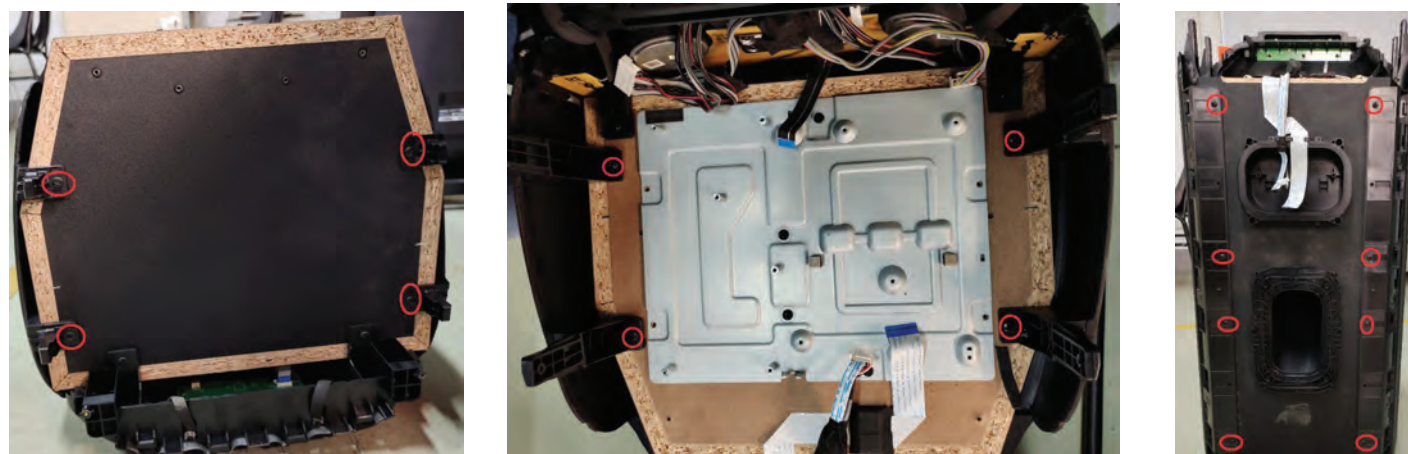
Dismantling of Wheel Bracket ASSY

Loosen 4 screws at Wheel Bracket ASSY.



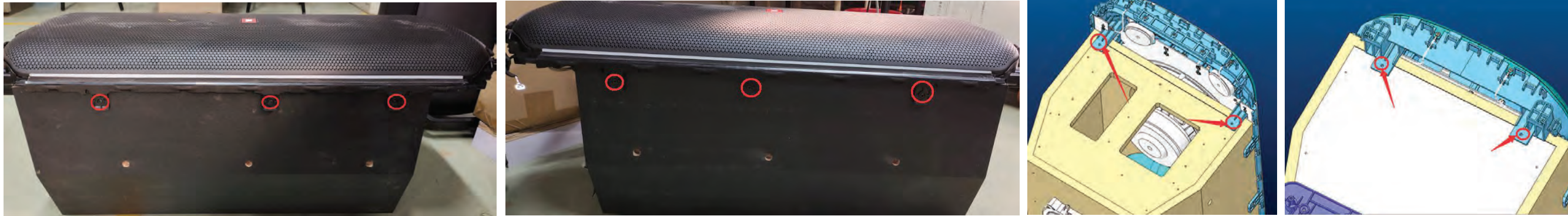
Dismantling of Left/Right Cover

Loosen 8 screws at Left Cover, and 8 screws at Right Cover.



Dismantling of Front Cover

Loosen 10 screws at Front Cover.



Dismantling of LAMP BOARD E& LAMP BOARD F

Loosen 5 screws on the top of LAMP BOARD E, and 4 screws on the top of LAMP BOARD F.



Dismantling of LAMP BOARD C& LAMP BOARD D

Loosen 5 screws on the top of LAMP BOARD C, and 4 screws on the top of LAMP BOARD D.



Dismantling of LAMP BOARD A& LAMP BOARD B

Loosen 21 screws on the top of LAMP BOARD A and LAMP BOARD B.



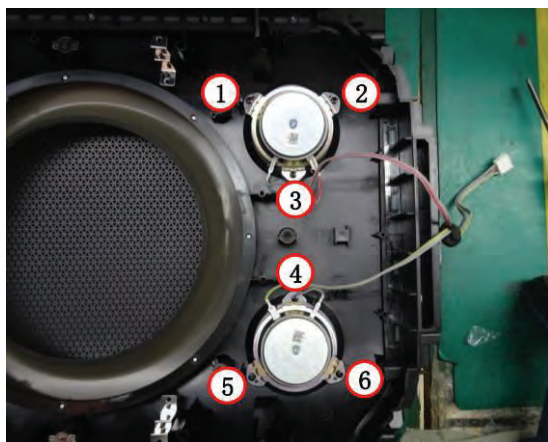
Dismantling of LAMP BOARD G& LAMP BOARD H

Loosen 2 screws on the top of LAMP BOARD G, and 3 screws on the top of LAMP BOARD H.

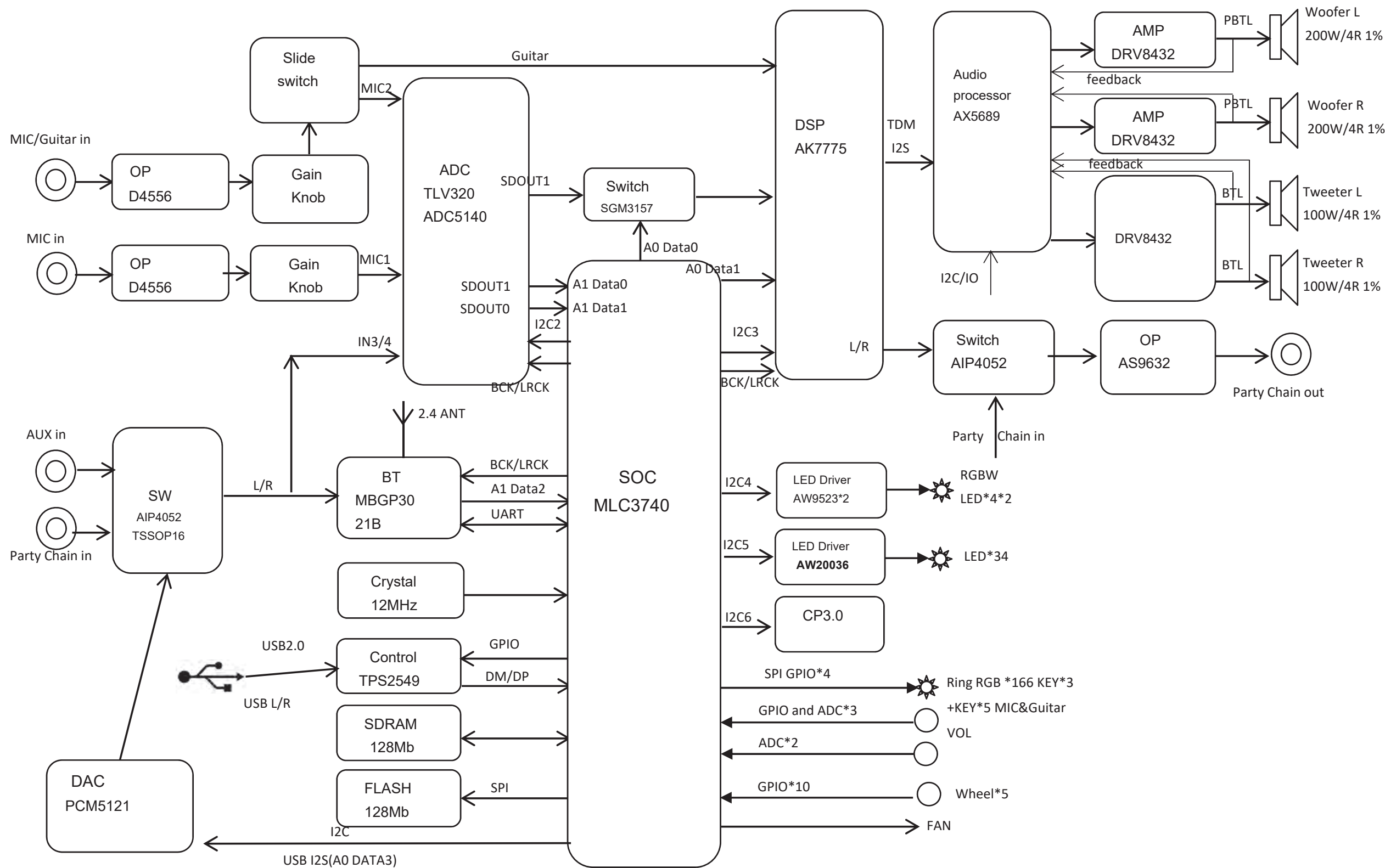


Dismantling of Tweeter Speaker 2.75 INCH

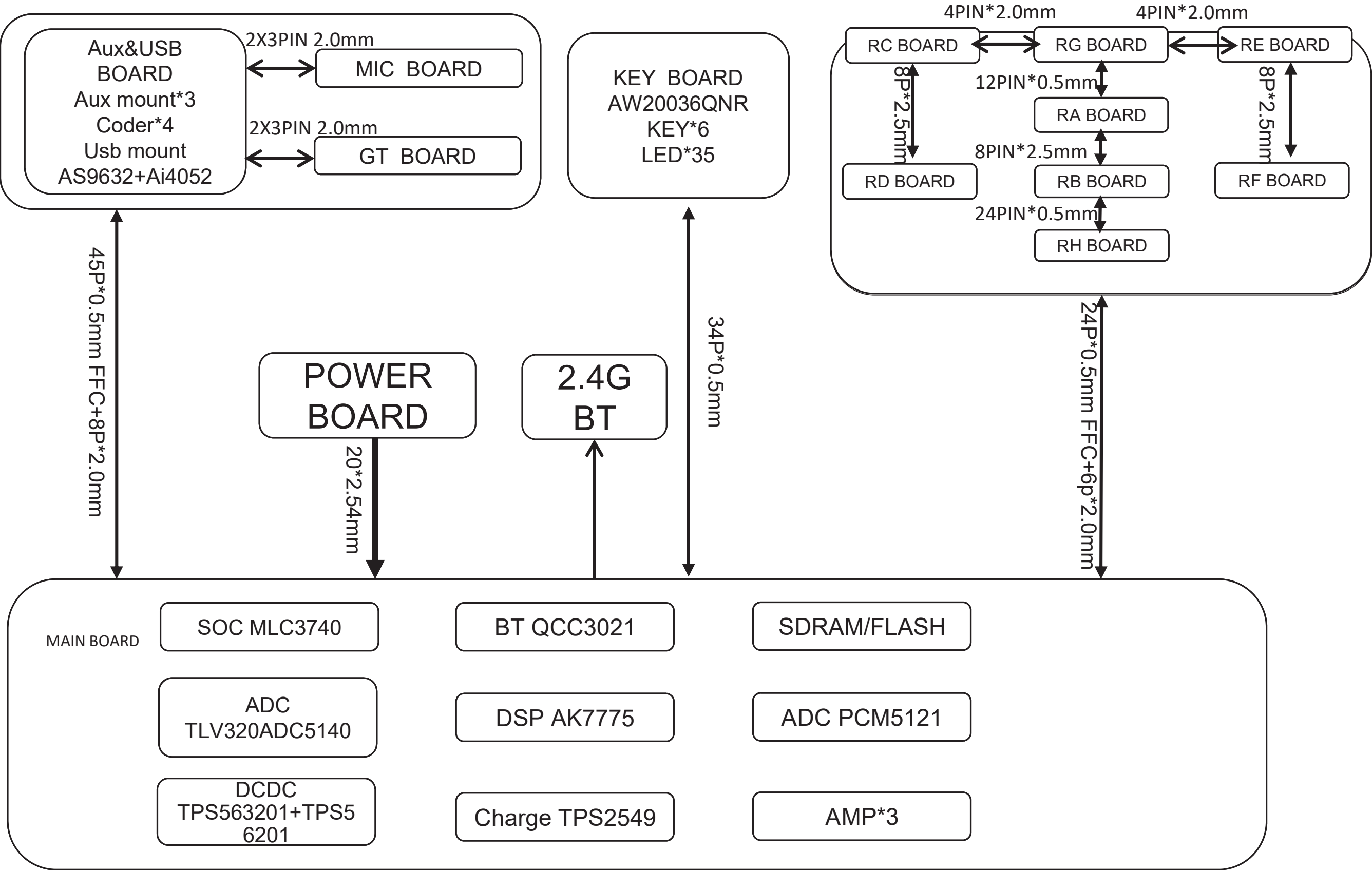
Loosen 6 screws at Tweeter Speaker 2.75 INCH.



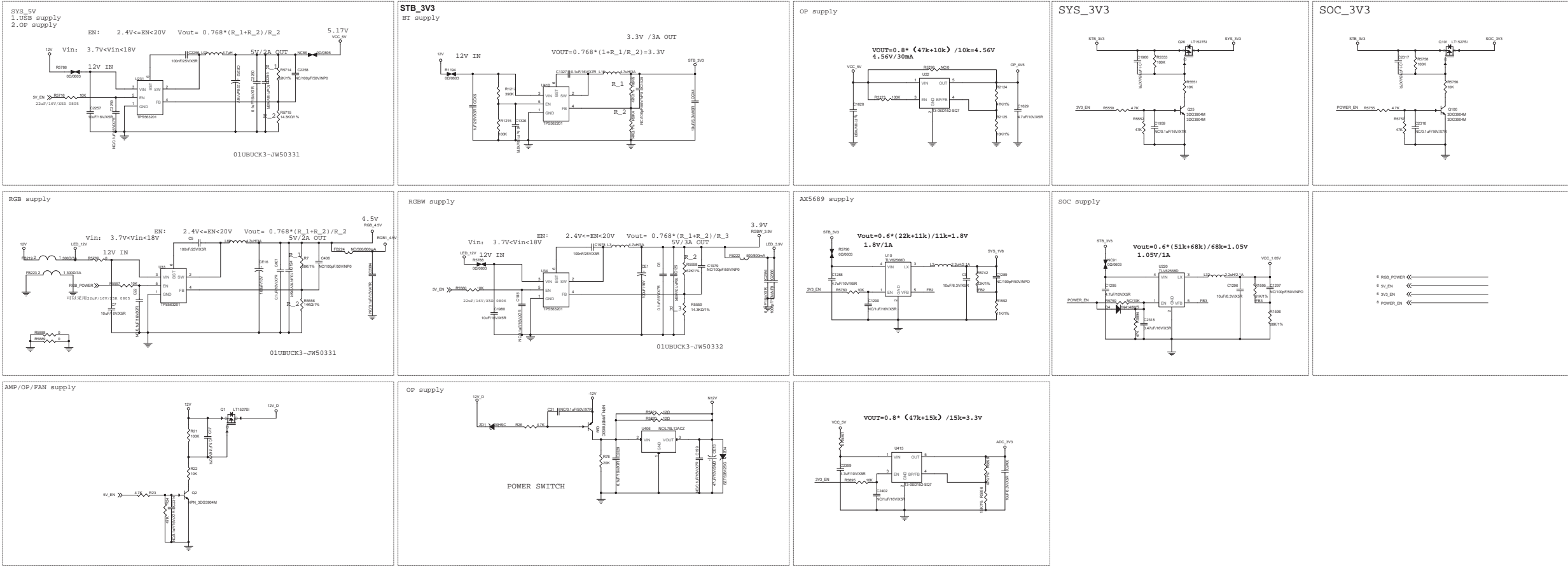
Block Diagram



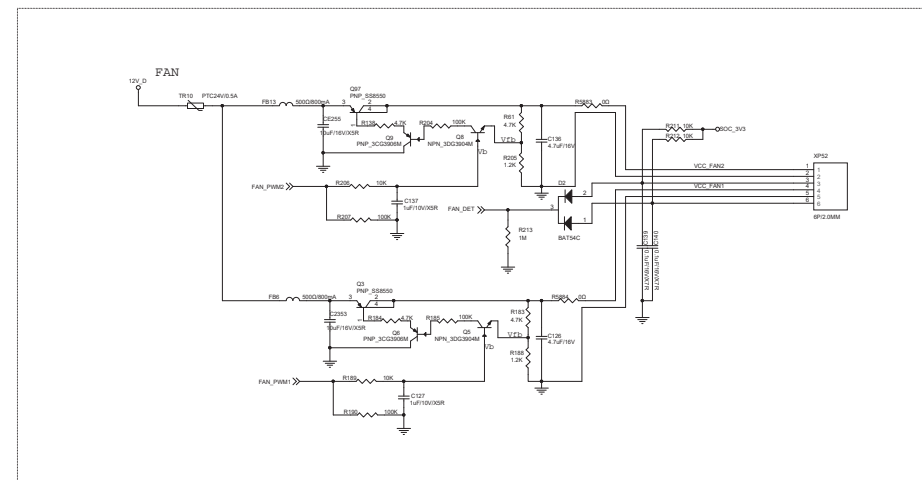
Wiring Diagram

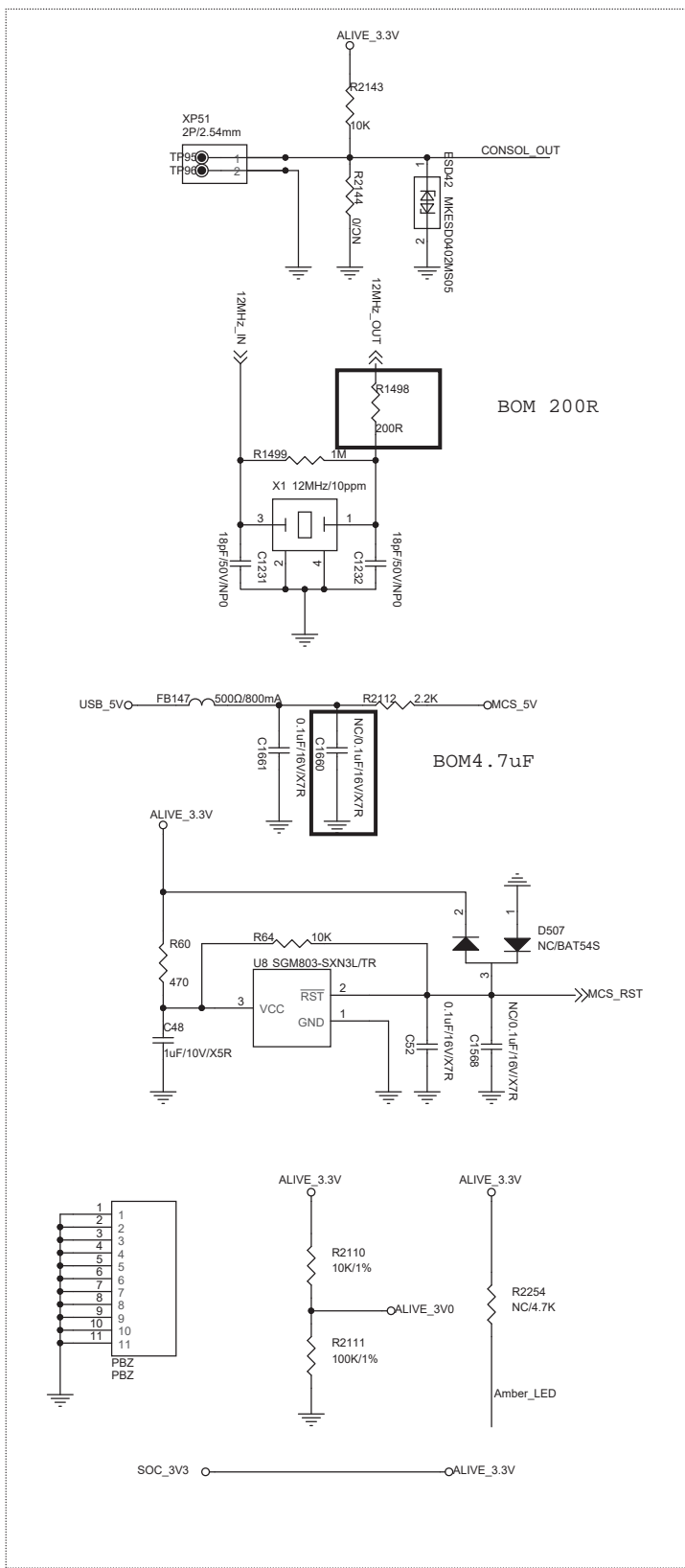


Circuit Diagram--Main PCBA

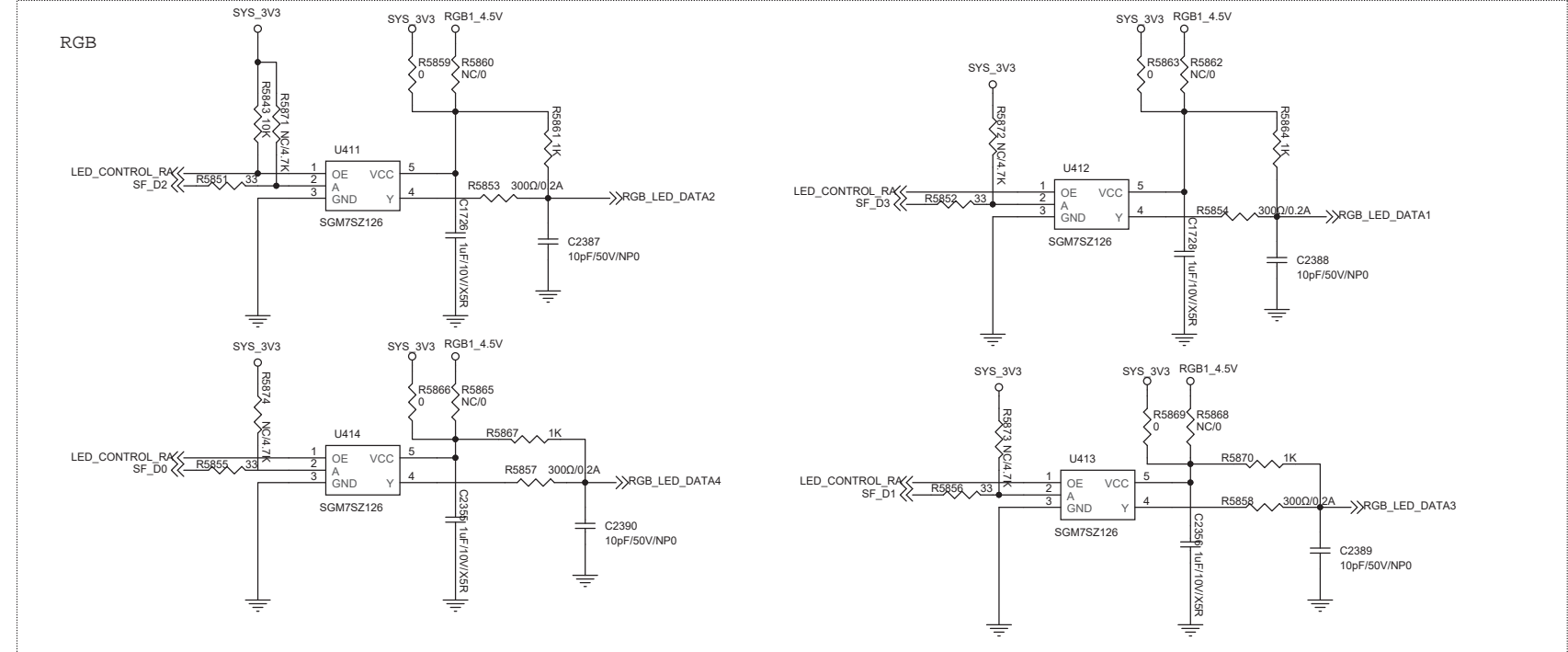
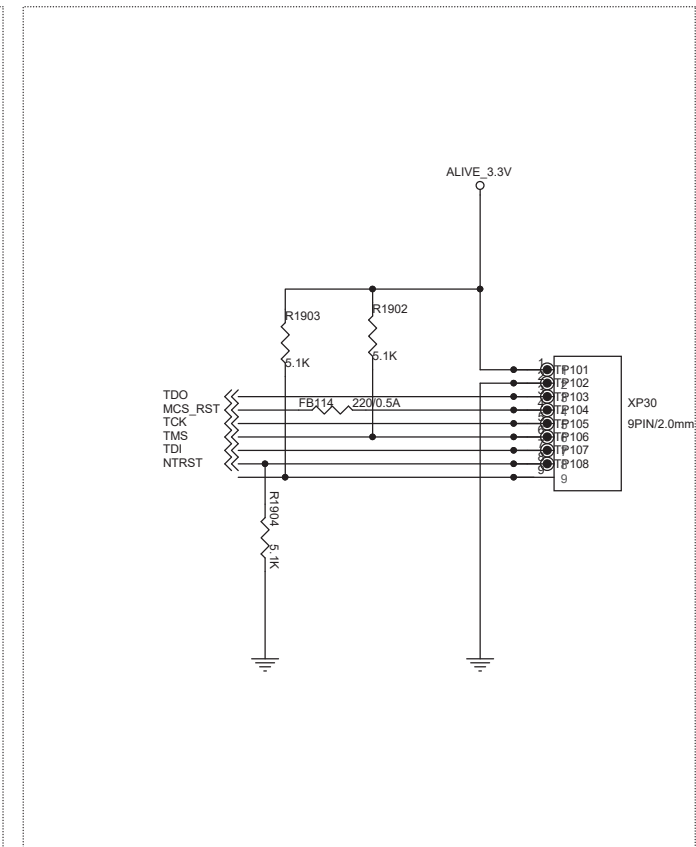
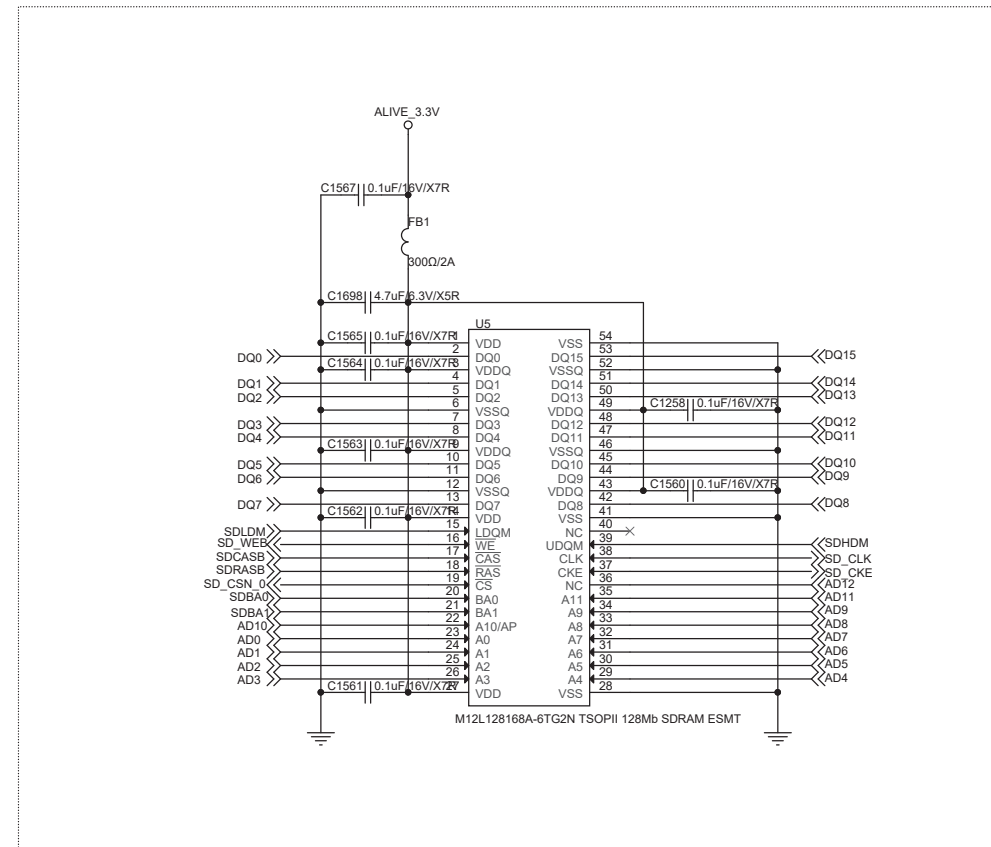
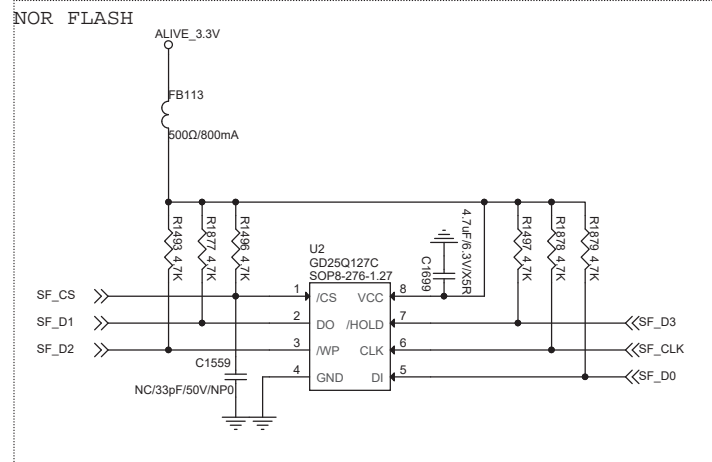
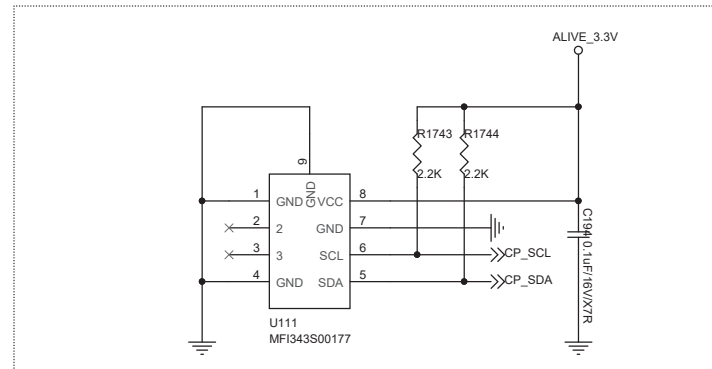


Circuit Diagram--Main PCBA

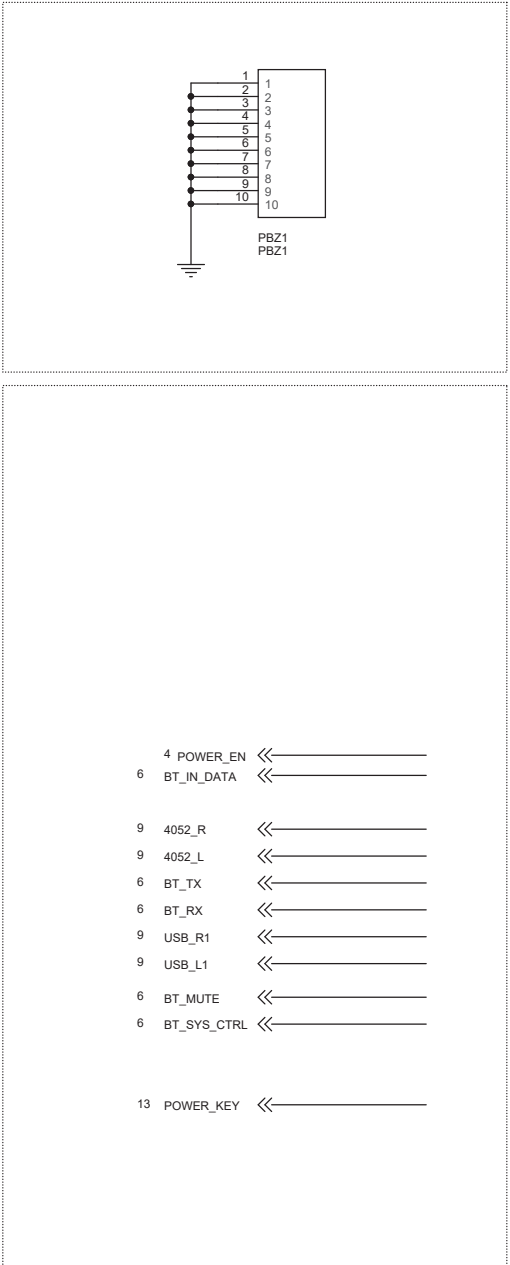
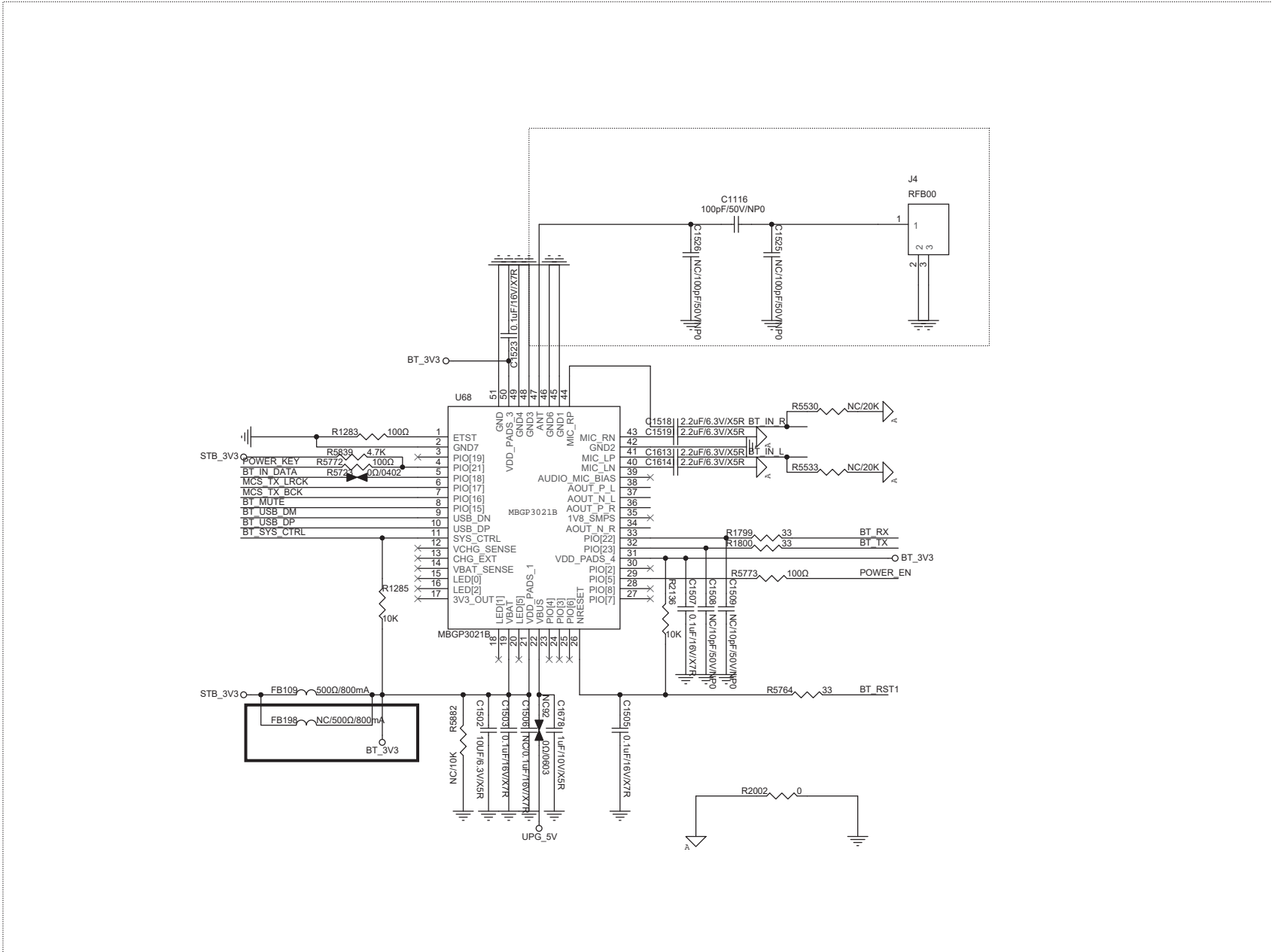
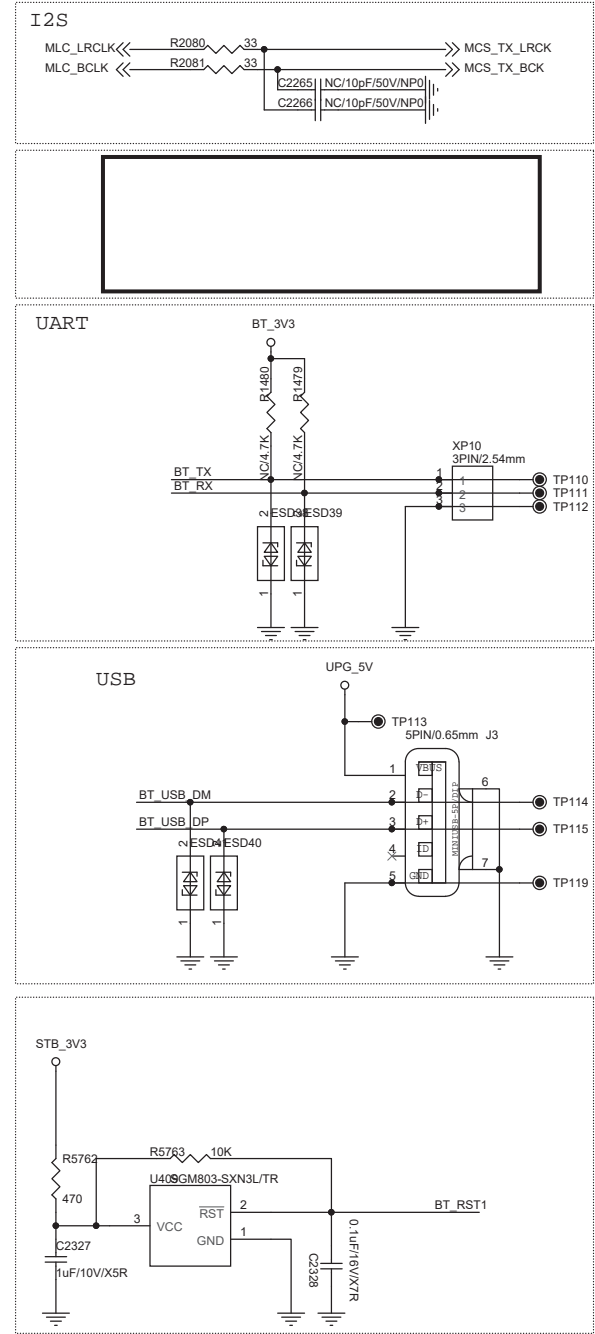




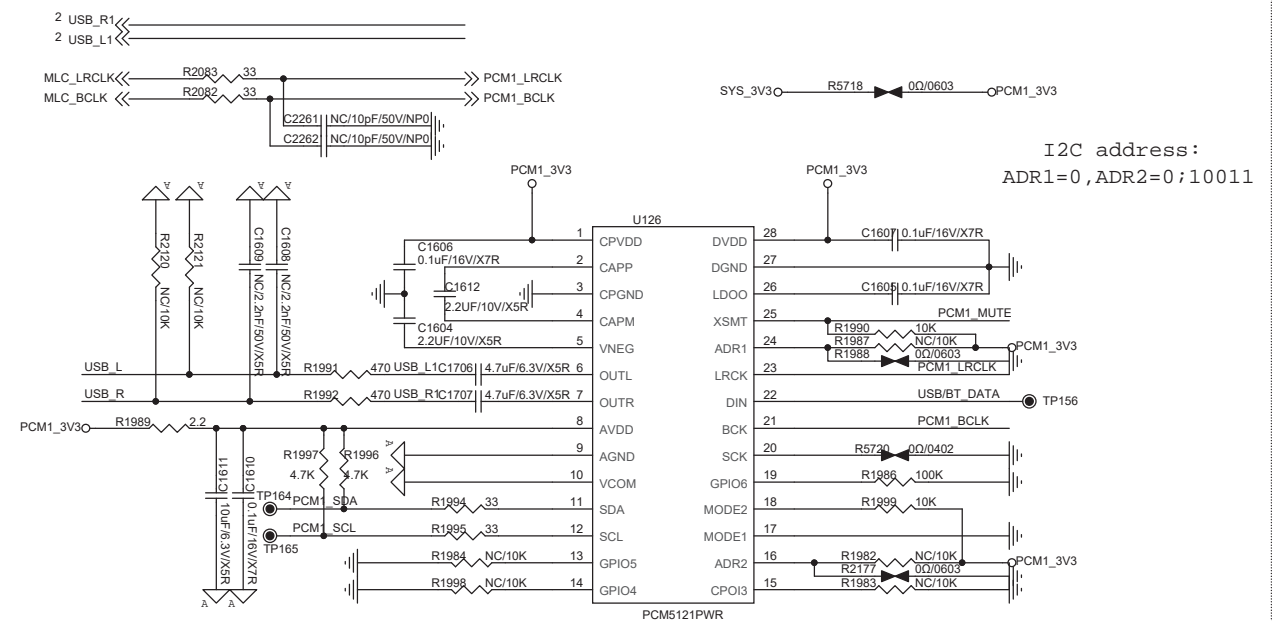
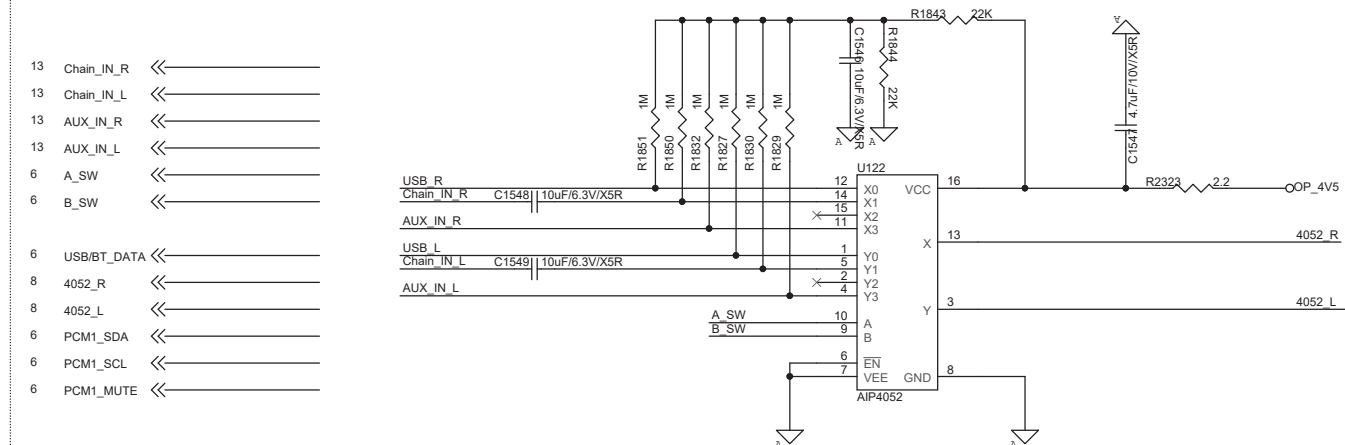
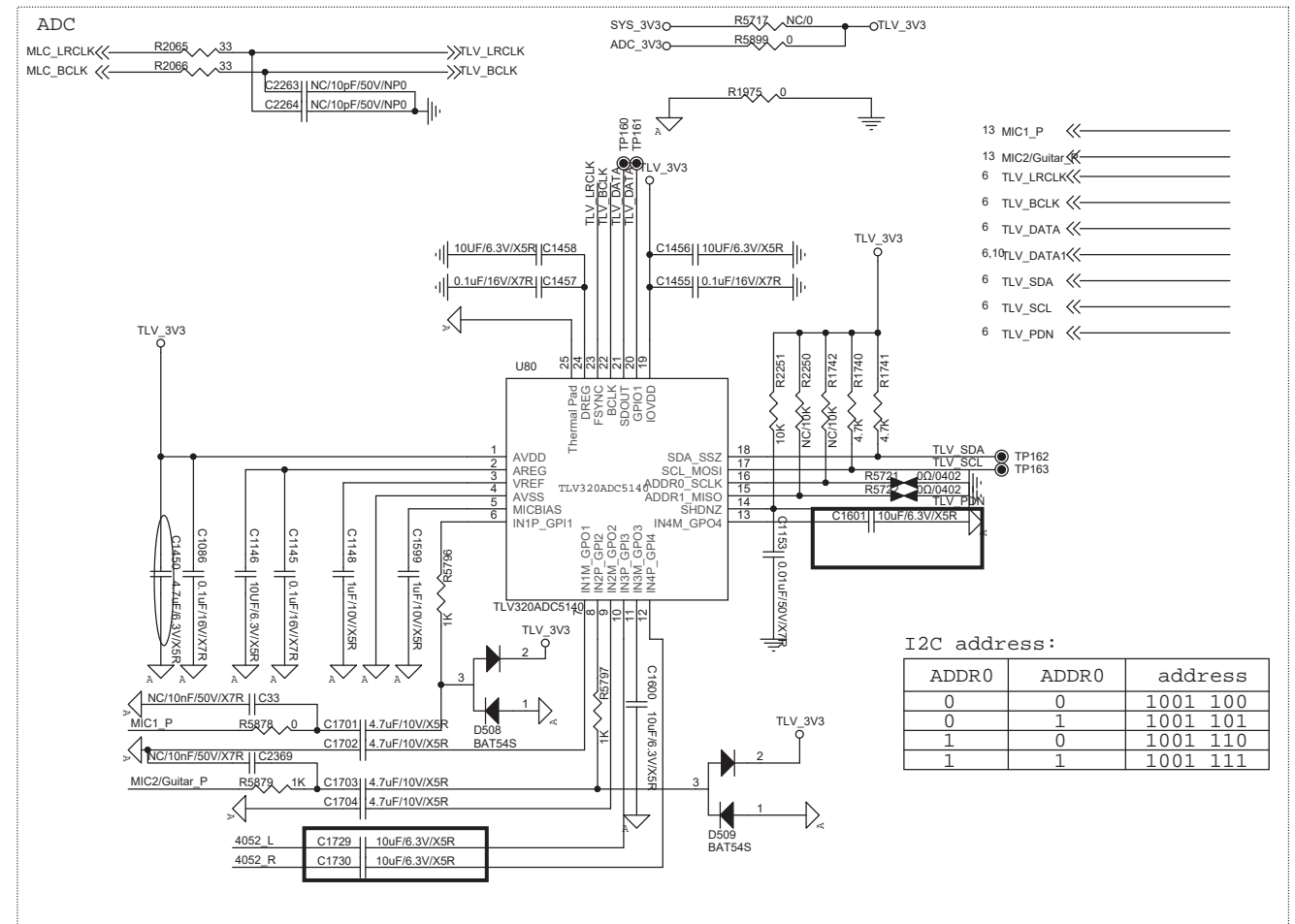
Circuit Diagram--Main PCBA



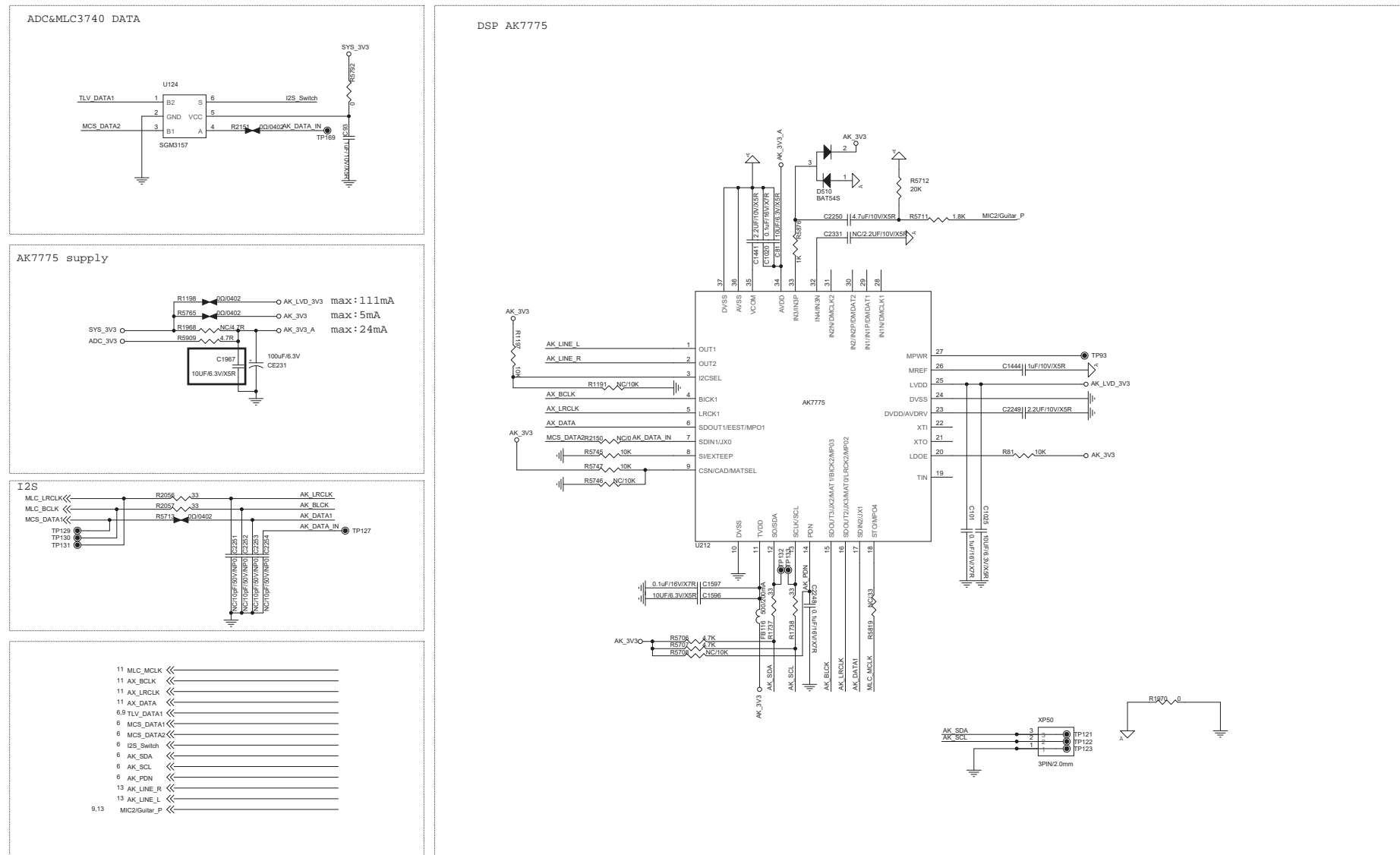
Circuit Diagram--Main PCBA



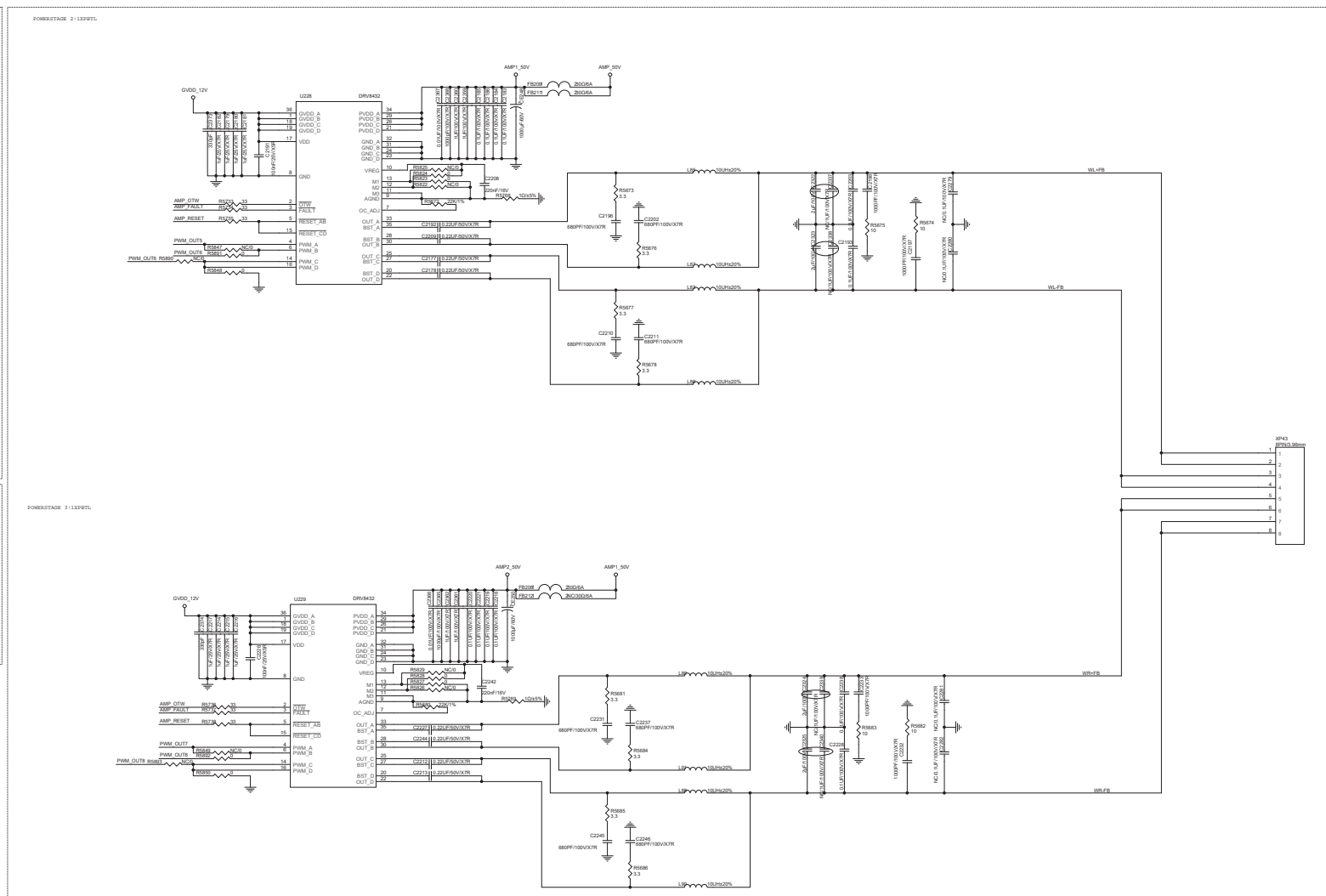
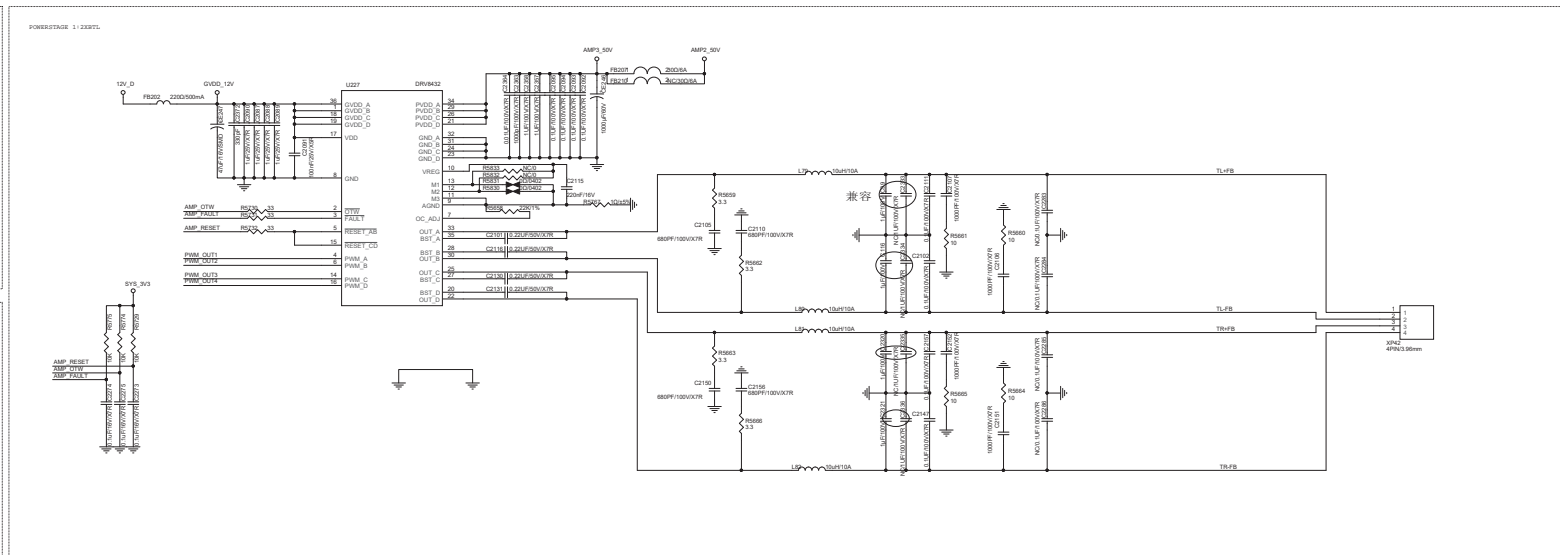
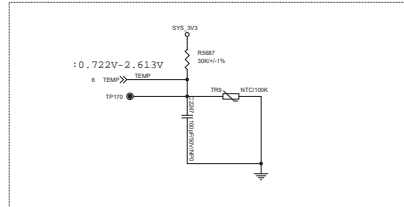
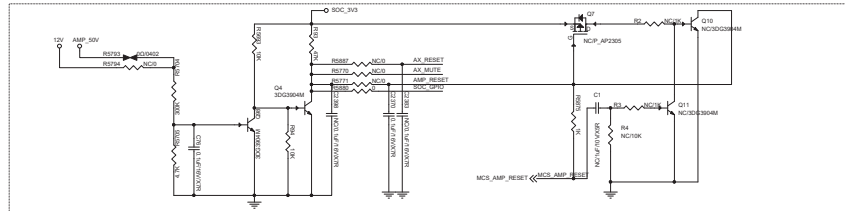
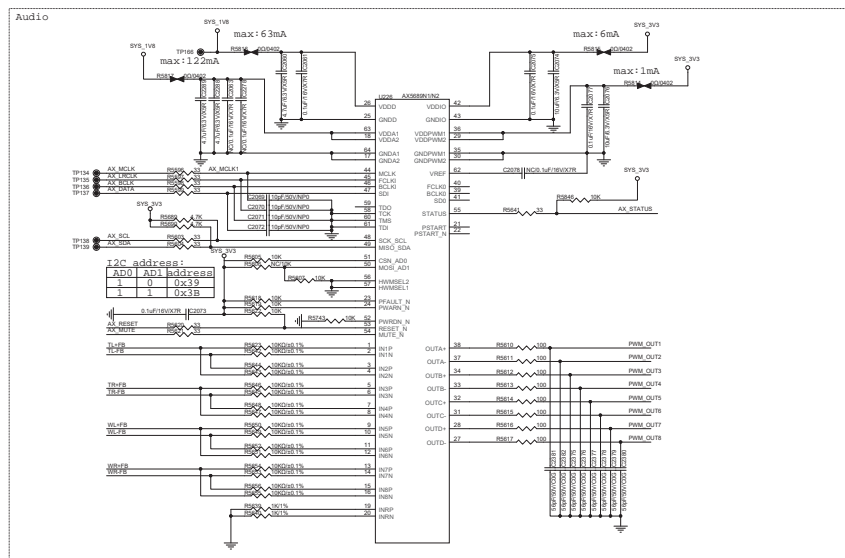
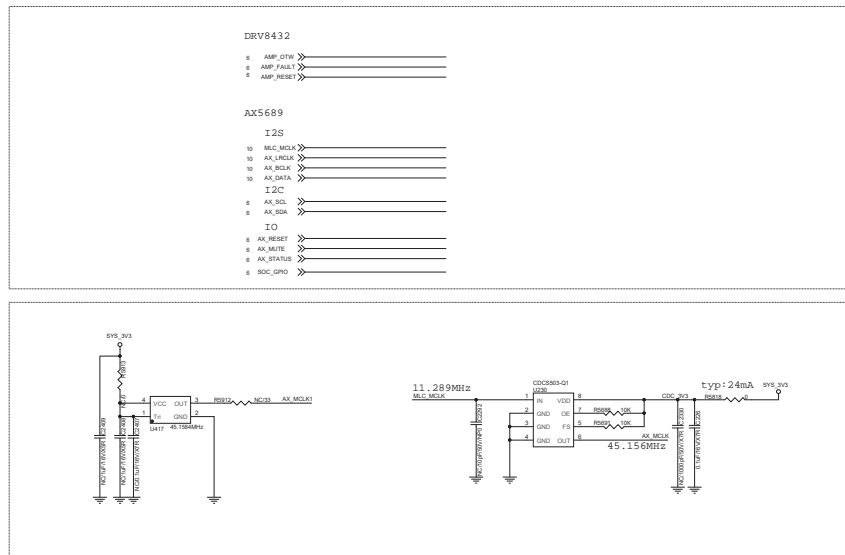
Circuit Diagram--Main PCBA



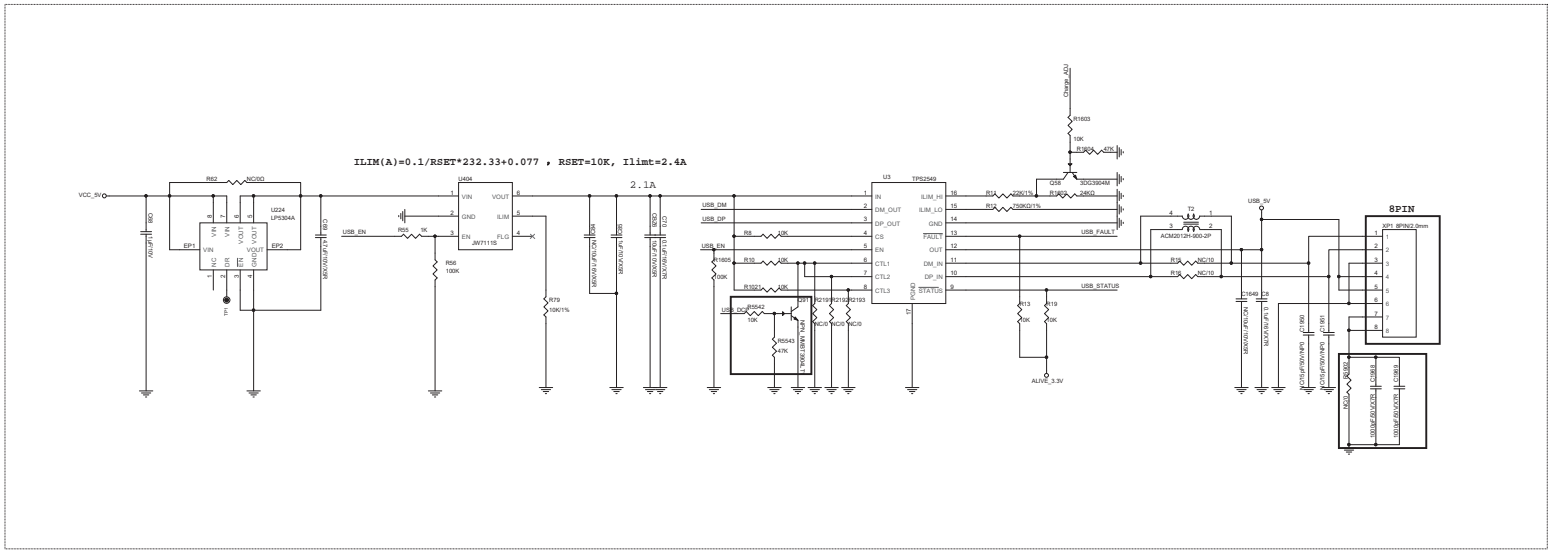
Circuit Diagram--Main PCBA



Circuit Diagram--Main PCBA



Circuit Diagram--Main PCBA



To KEY Board

145 ● LED SD FB159 600Q
 140 ● Amber LED FB161 600Q
 141 ● White LED FB162 600Q

AW20036

140 ● LED SDA FB163 47Q
 141 ● LED SCL FB164 47Q

BASS+ R5776 47Q
 BASS- R5777 47Q

Treble+ R5778 47Q
 Treble- R5779 47Q

ECHO+ R5780 47Q
 ECHO- R5781 47Q

VOL+ R5782 47Q
 VOL- R5783 47Q

Light+ R5784 47Q
 Light- R5785 47Q

TP154

R2209 OSVS_3V3
 R2245 STB_3V3
 R1874 LED_3.9V

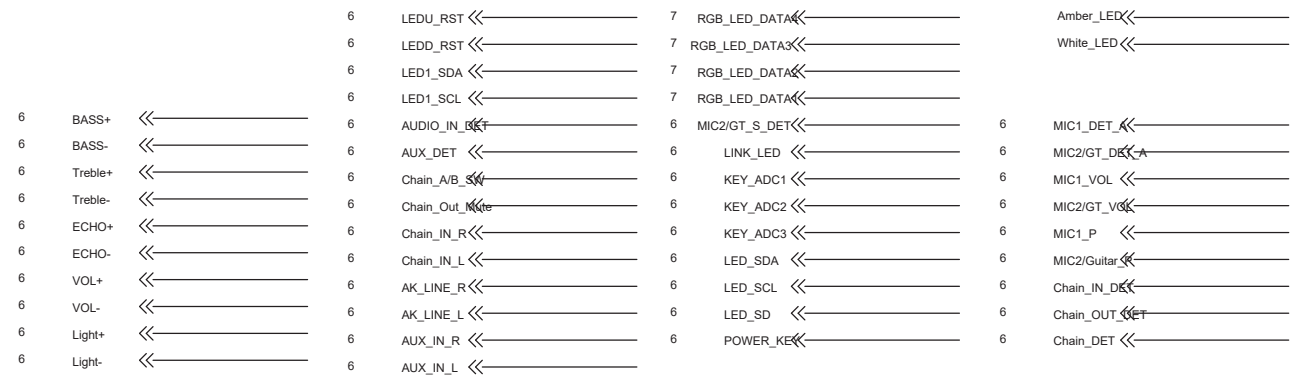
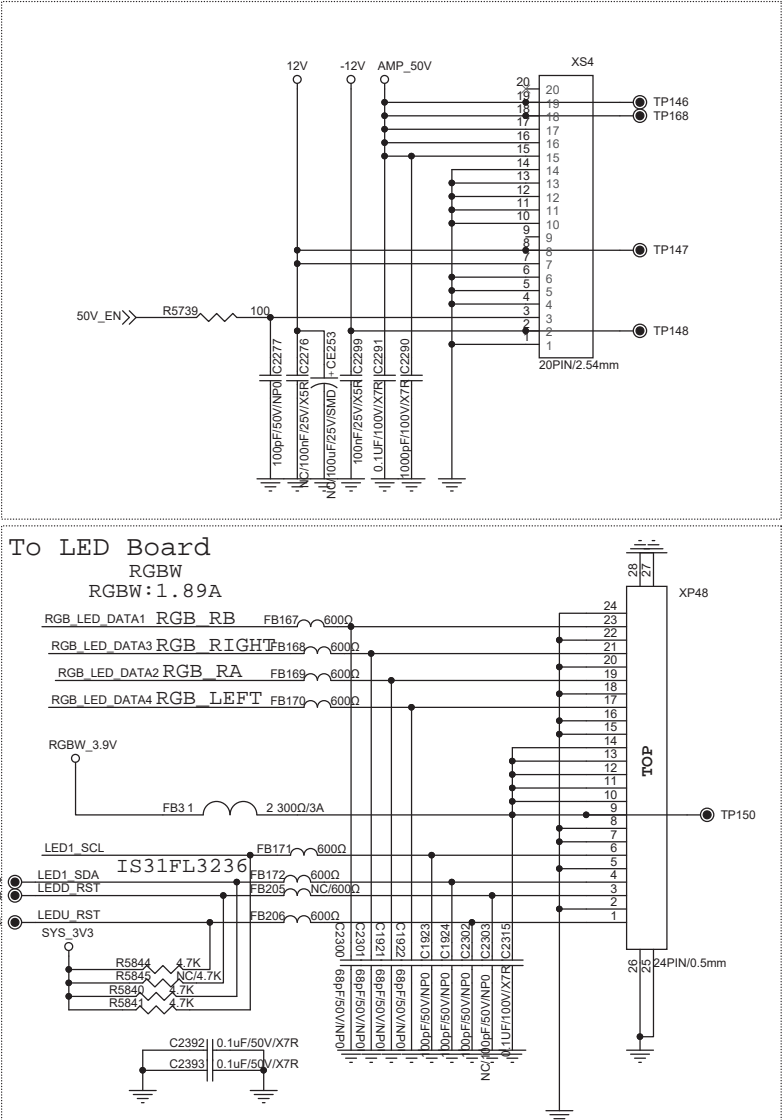
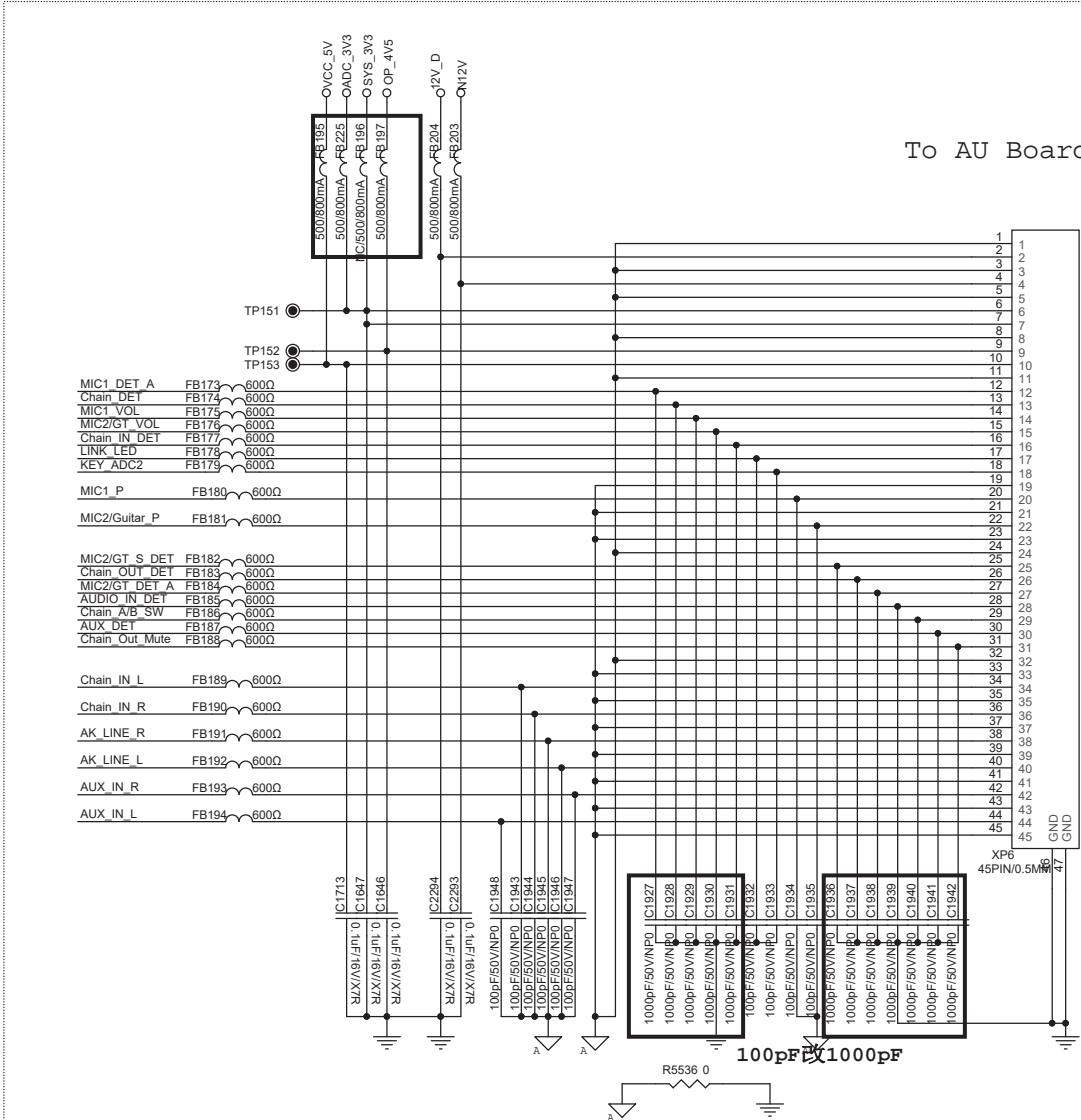
RGBW

34PIN/0.5mm

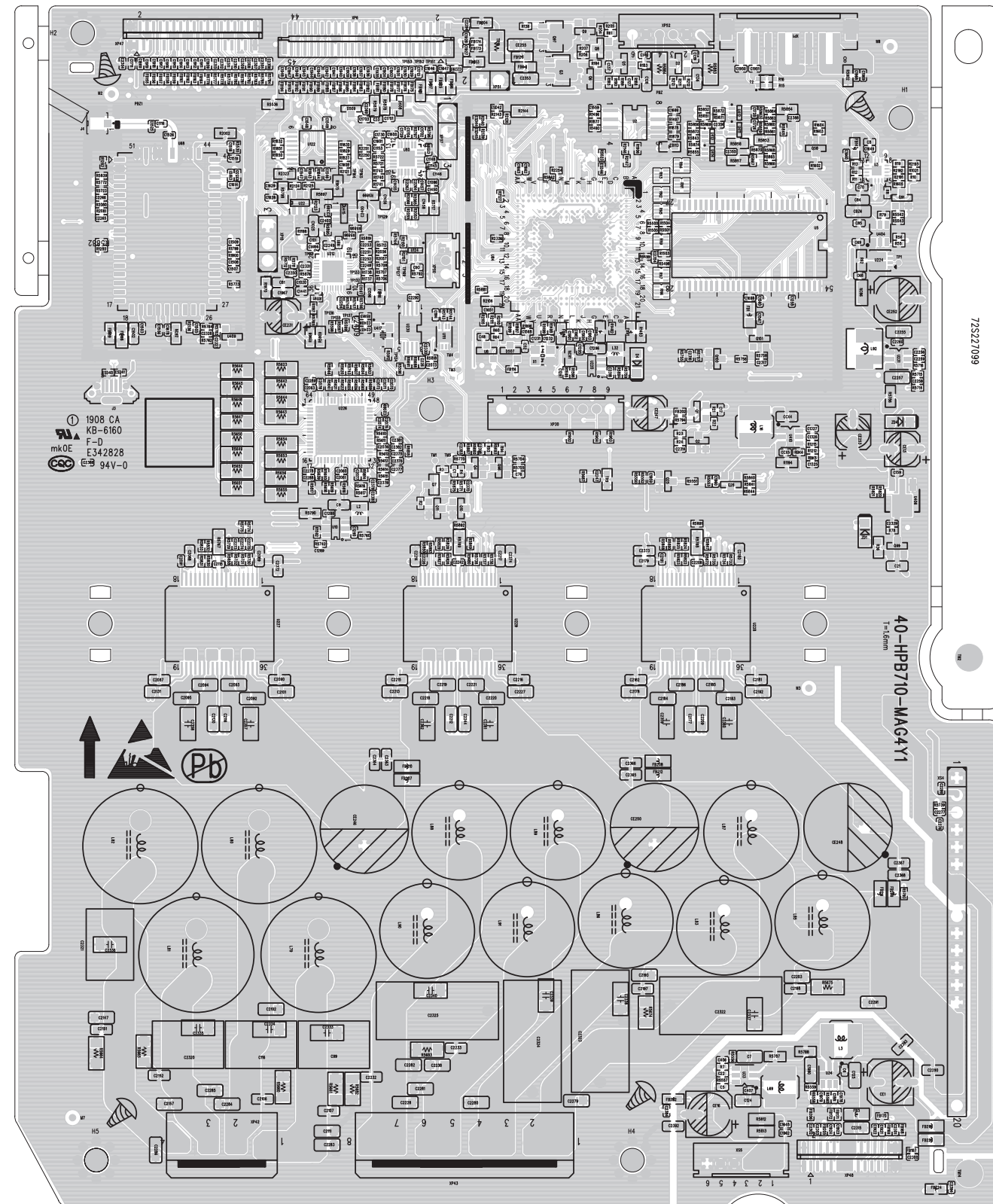
XP47

37 38

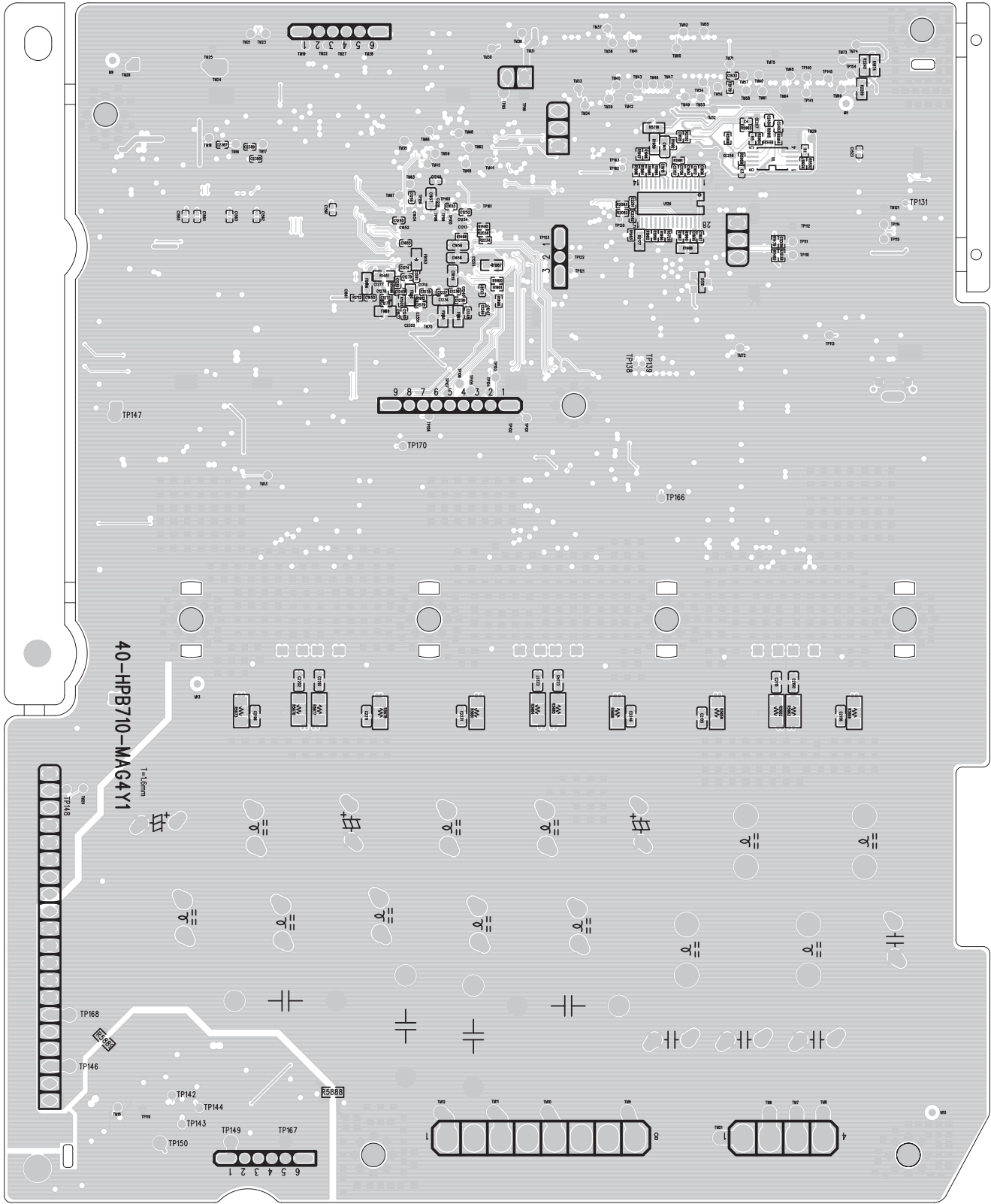
The schematic diagram illustrates a 5V RGB LED driver circuit. It features a power source labeled RGB_4.5V 2.5A. Two LEDs, R5812 and R5813, are connected in series with 00/0805 resistors. The circuit includes two capacitors: C1045 (0.1uF/16V/X7R) and C1062 (1300pF/50V/X7R). The LEDs are connected to test points TP149 and TP167. The circuit is powered by an XS5 6P/2.0MM connector.



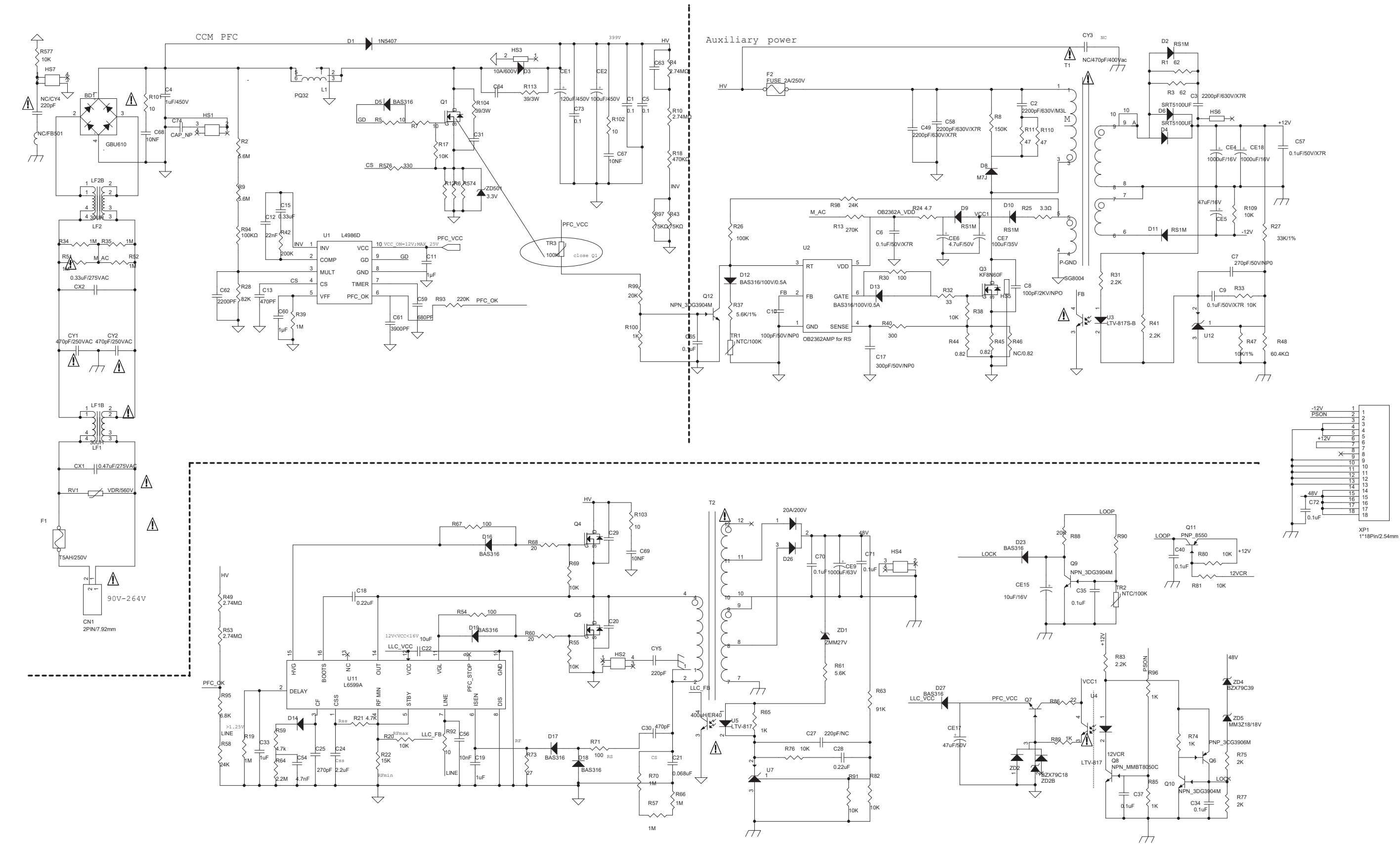
Layout Top View Diagram--Main PCBA



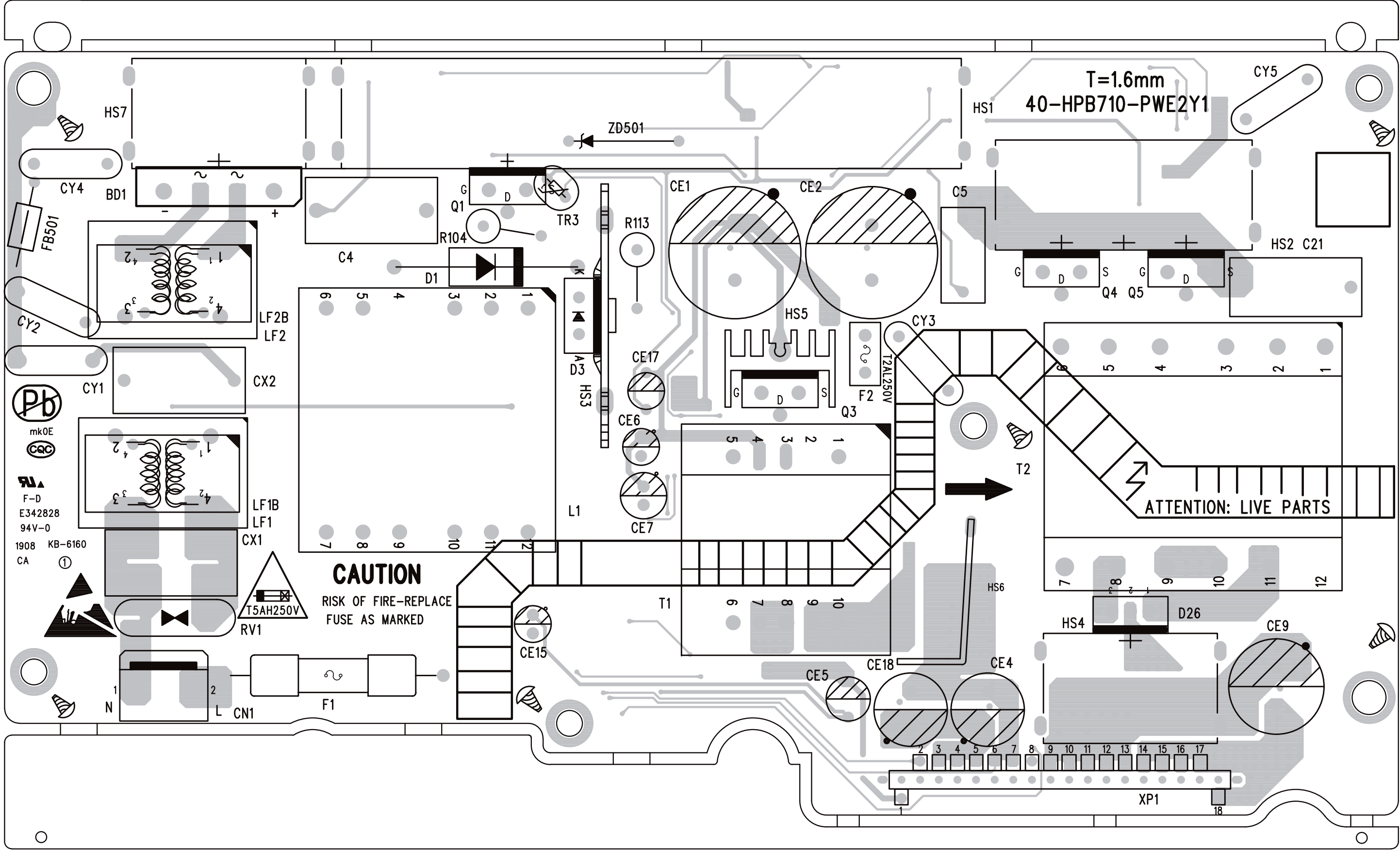
Layout Bottom View Diagram--Main PCBA



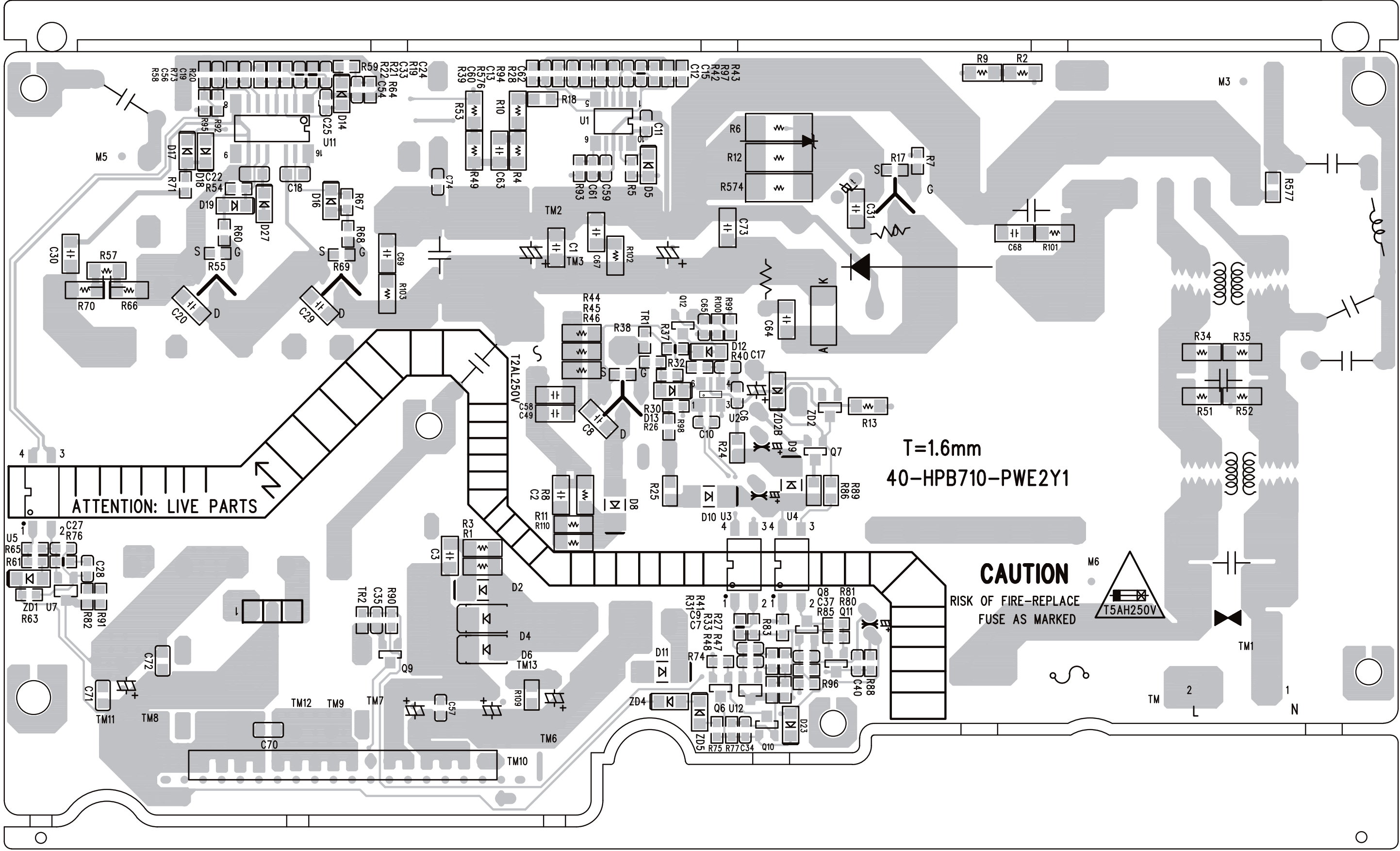
Circuit Diagram--Power PCBA



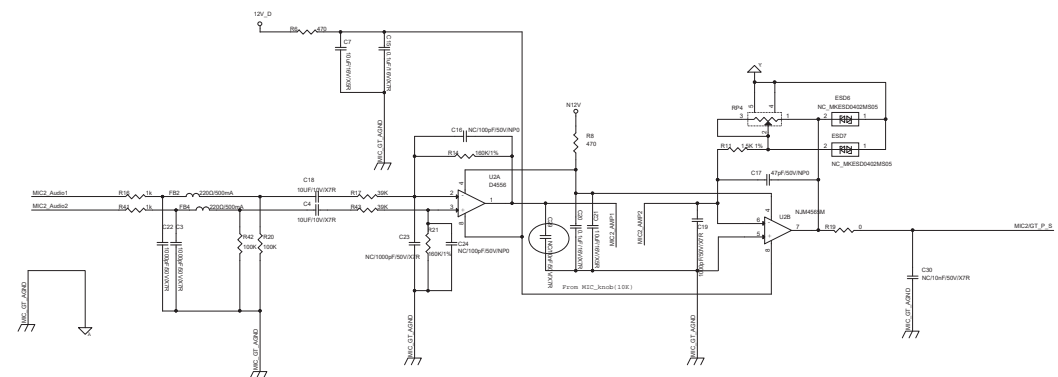
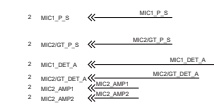
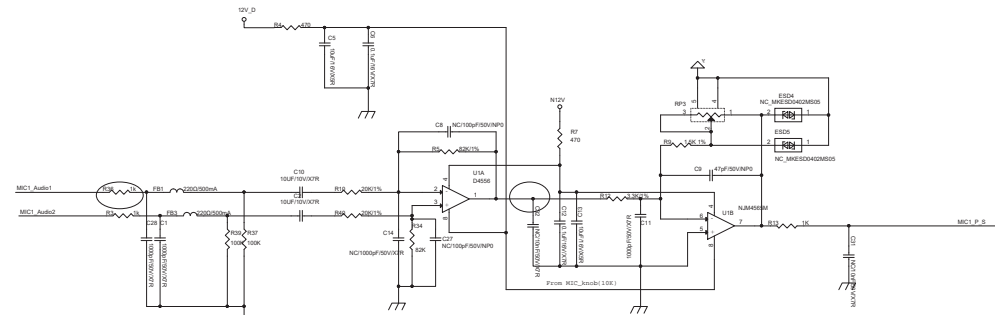
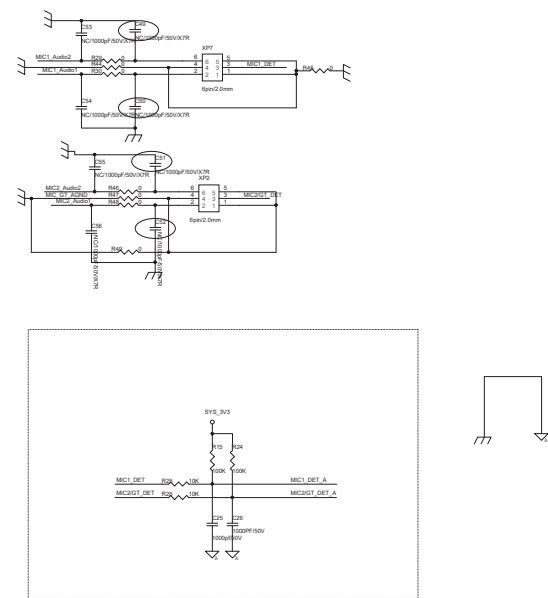
Layout Top View Diagram--Power PCBA



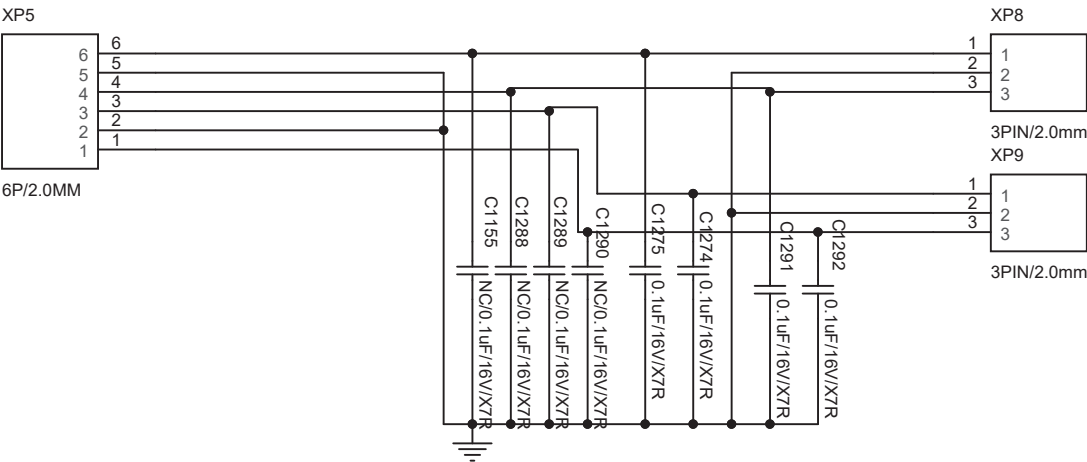
Layout Top Bottom Diagram--Power PCBA



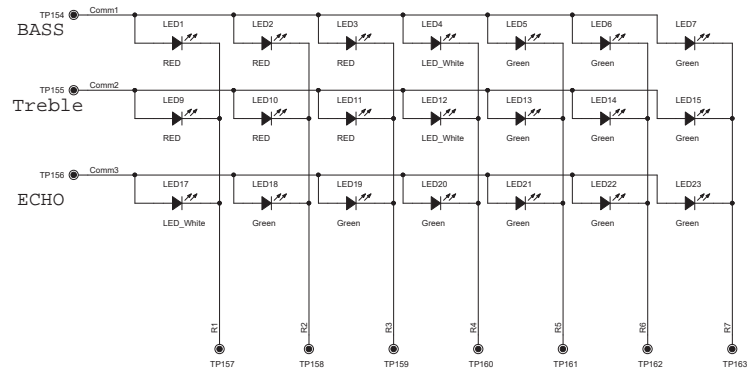
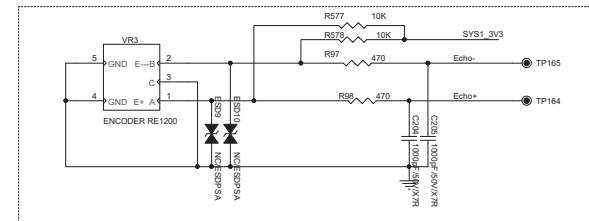
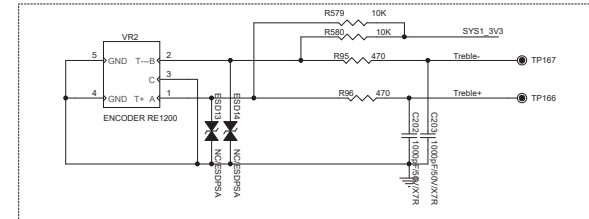
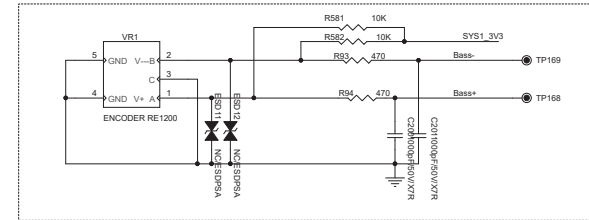
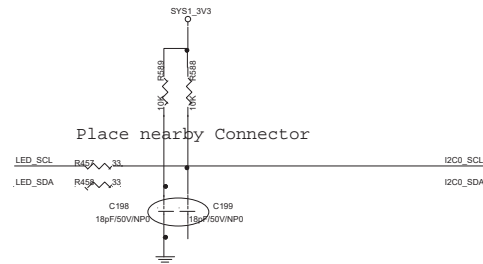
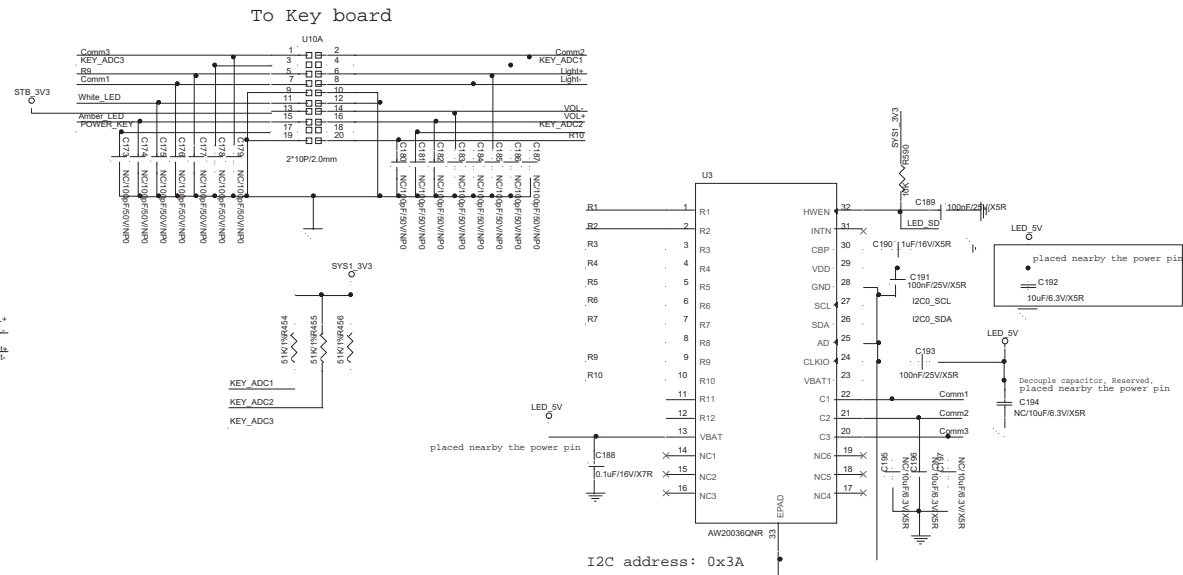
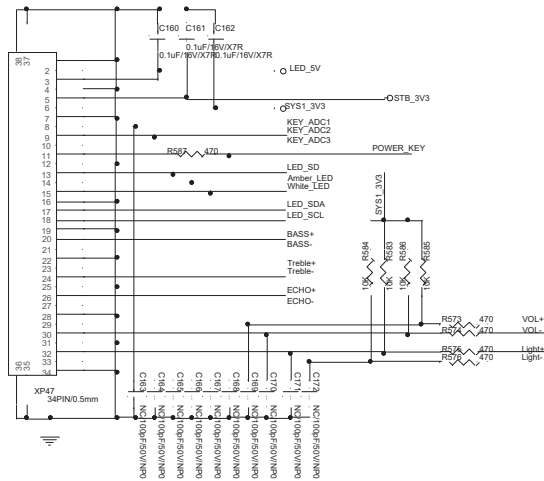
Circuit Diagram--AU+CN+KD PCBA



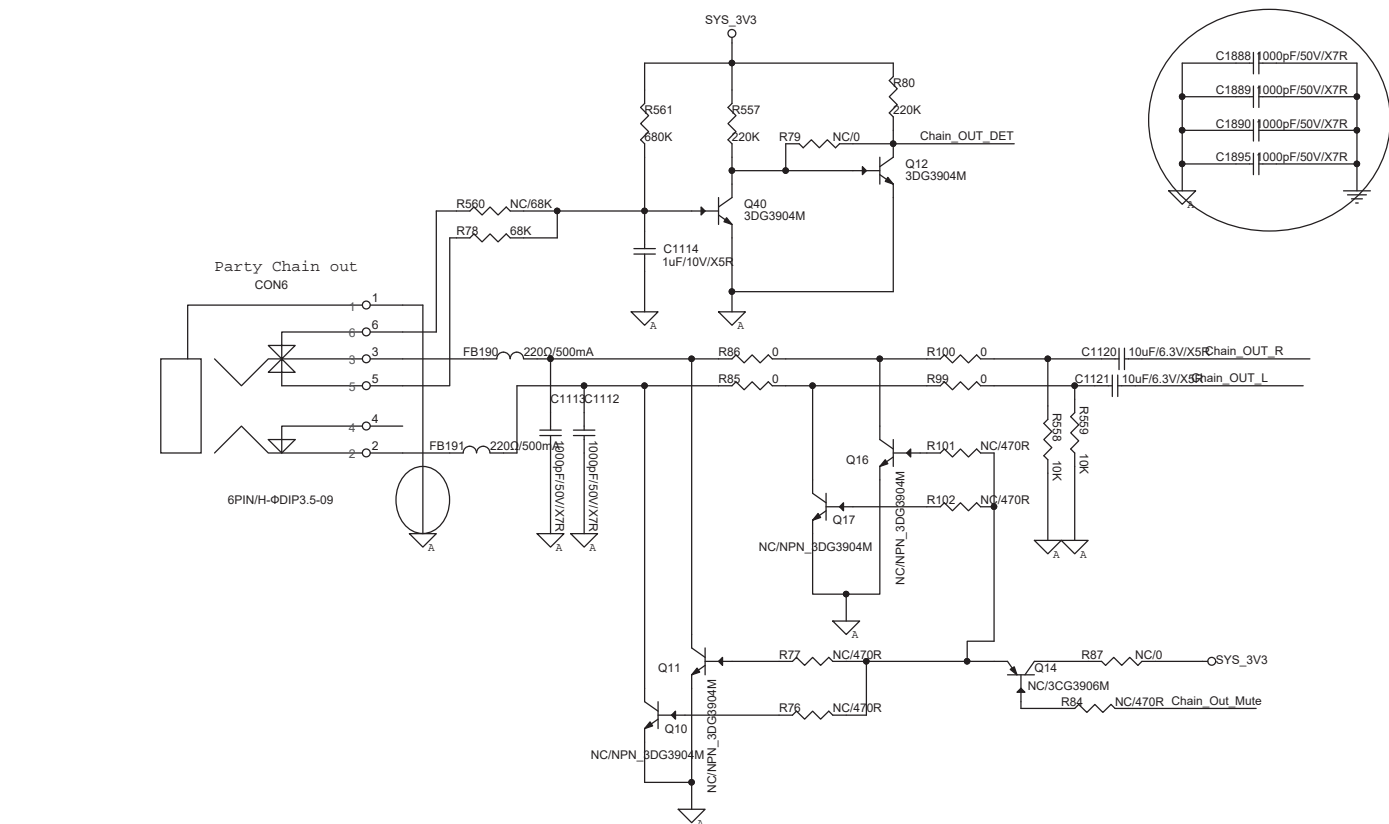
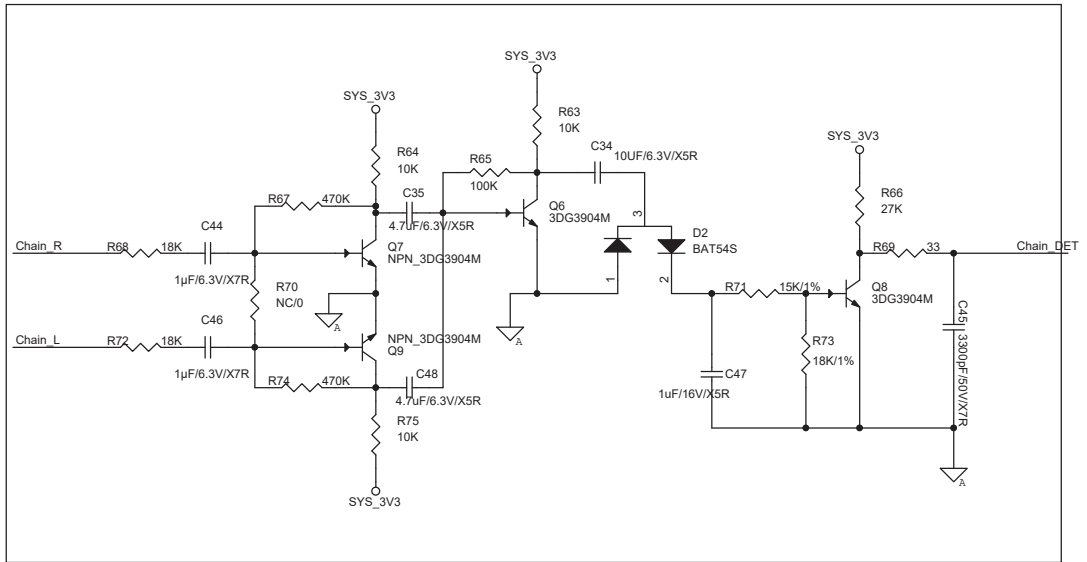
Circuit Diagram--AU+CN+KD PCBA



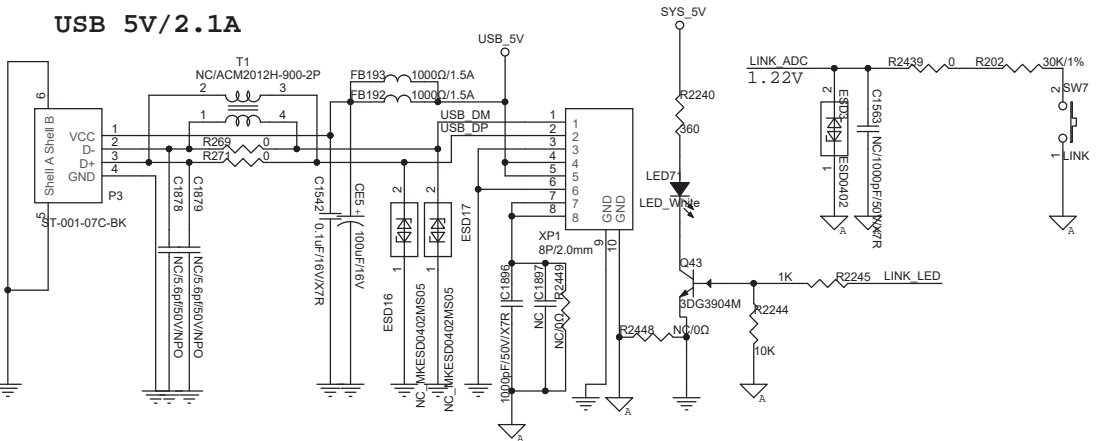
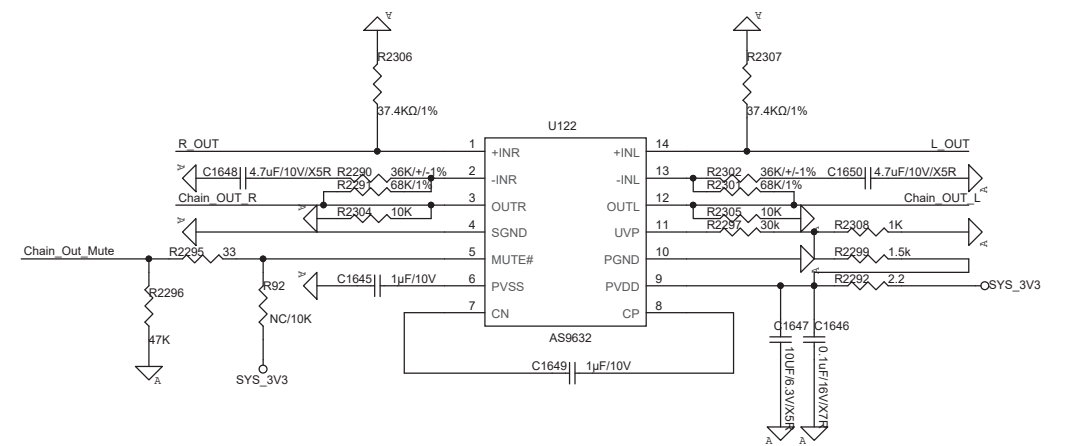
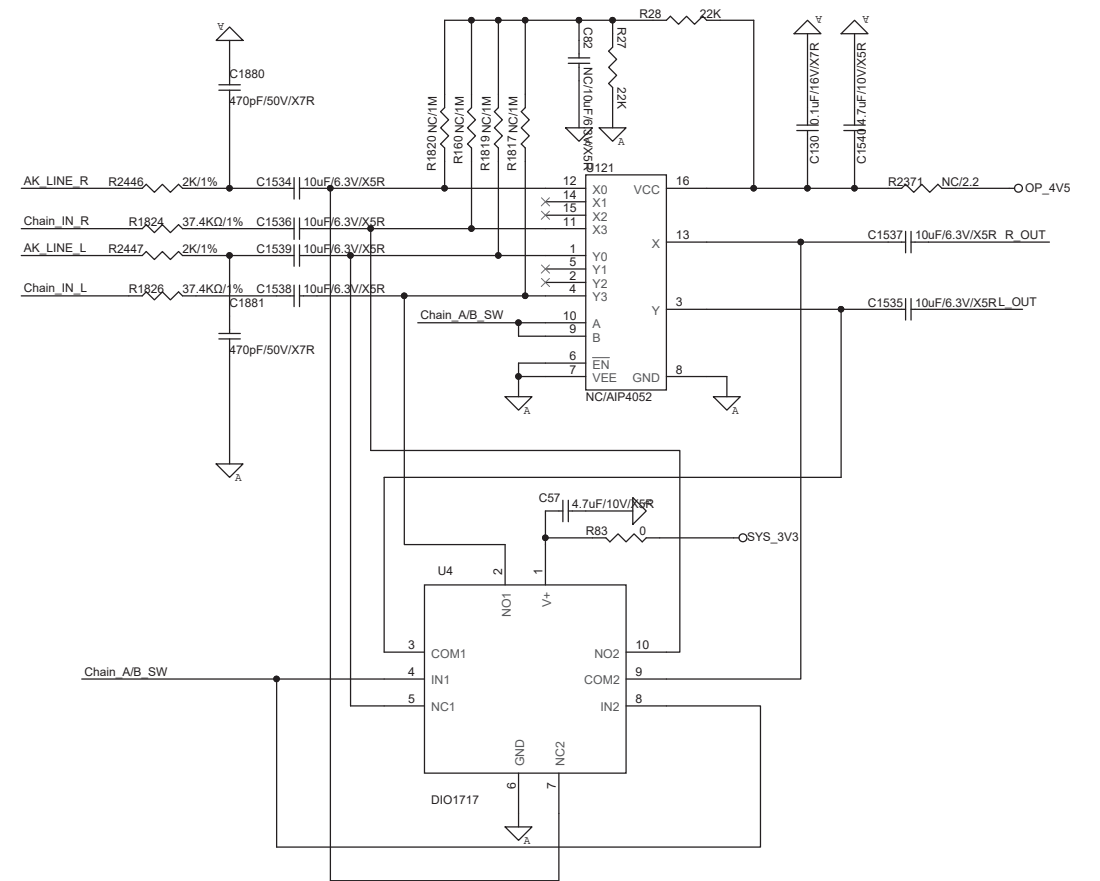
To MB board

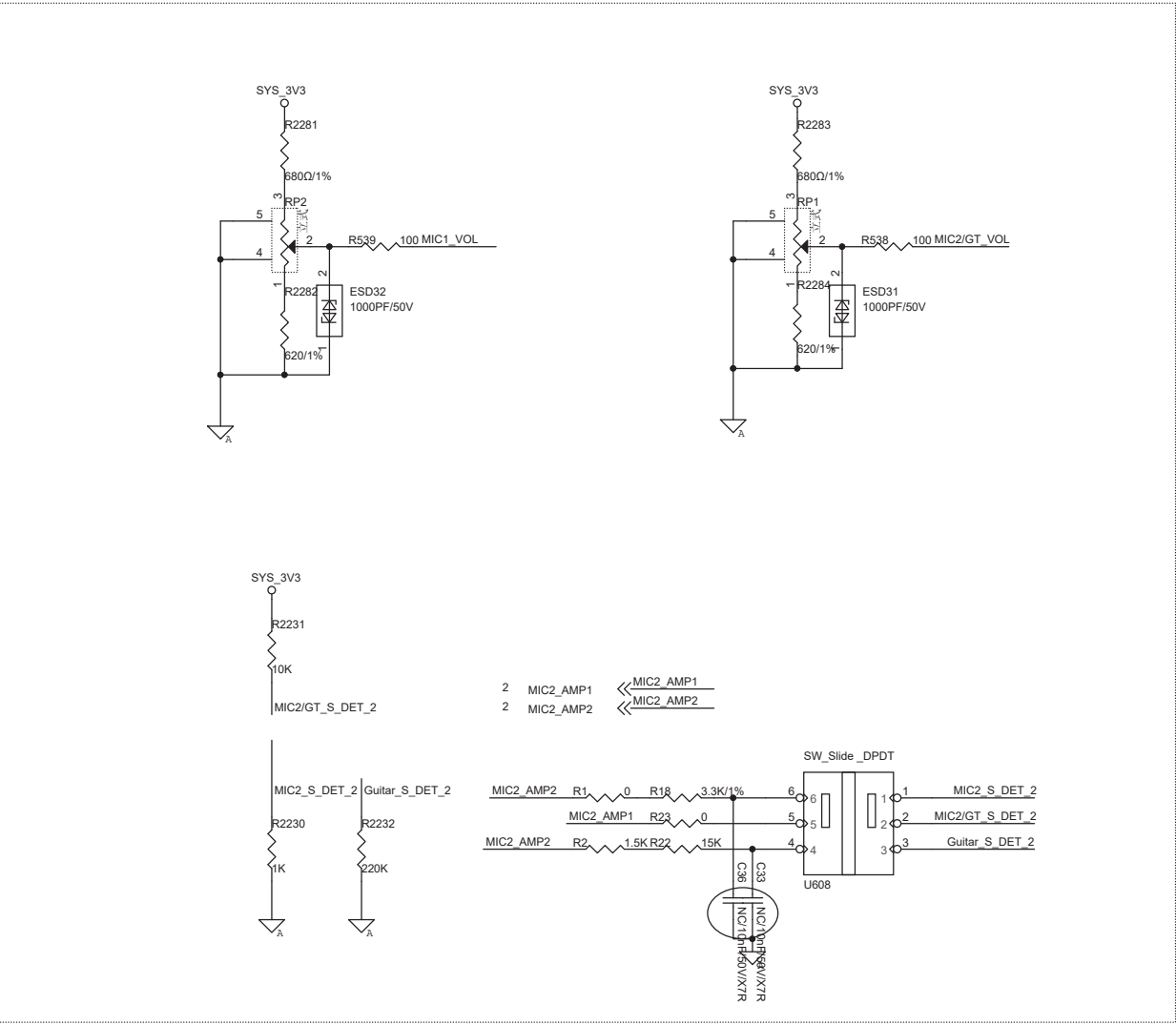


The schematic diagram illustrates the input stage of the 32-bit parallel adder. It features a 6PIN/H-ΦDIP3.5-09 package connected to a circuit with various components. The circuit includes a 3V3 supply, a 1000pF/50V/X7R capacitor, and a 15K/1% resistor. The output is labeled Chain_IN_DET.

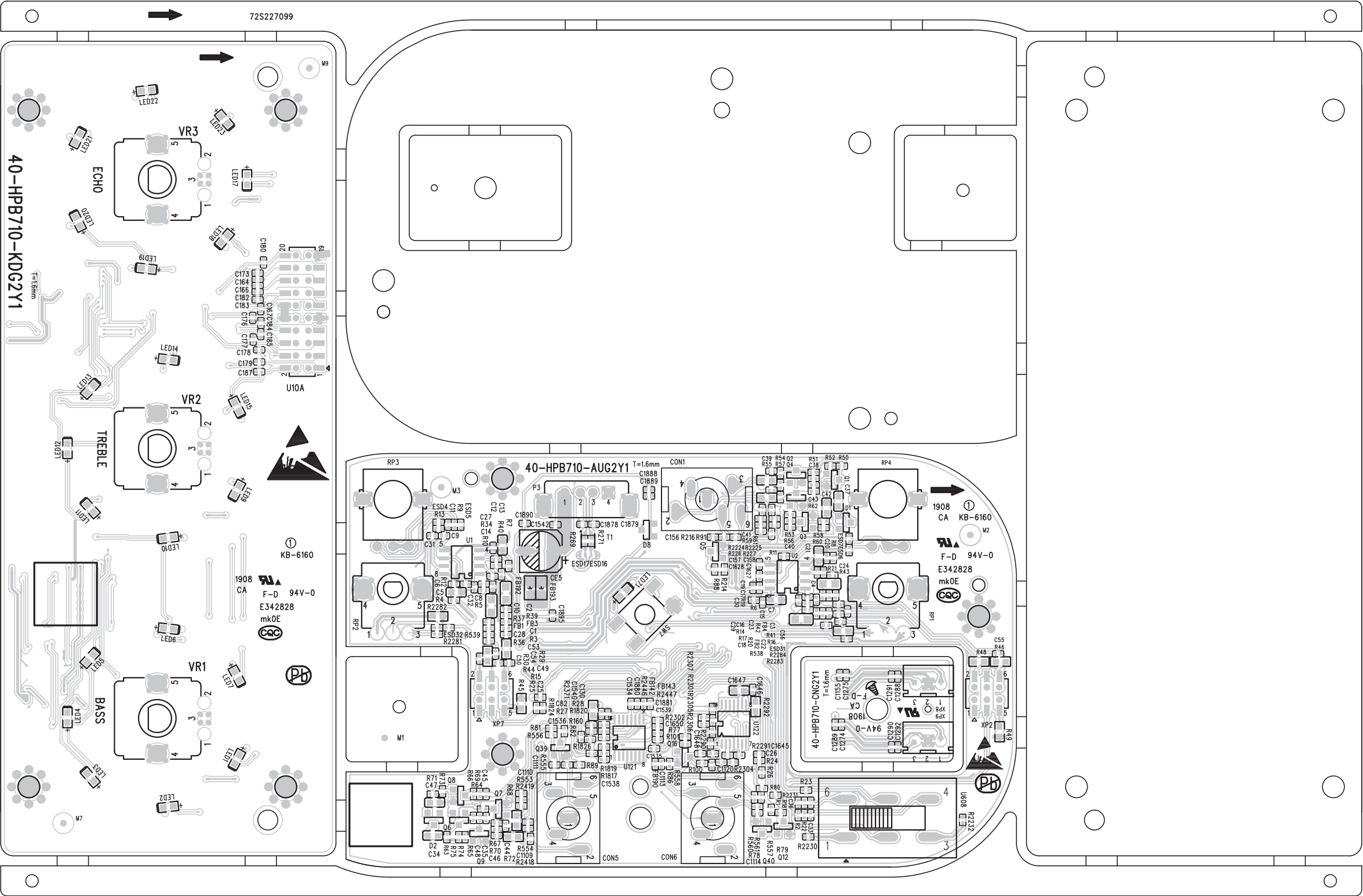


- | | | |
|---|----------------|----|
| 2 | LINK_ADC | << |
| 2 | LINK_LED | << |
| 2 | Chain_IN_DET | << |
| 2 | Chain_DET | << |
| 2 | Chain_IN_R | << |
| 2 | Chain_IN_L | << |
| 2 | AK_LINE_R | << |
| 2 | AK_LINE_L | << |
| 2 | Chain_A/B_SW | << |
| 2 | Chain_Out_Mute | << |
| 2 | Chain_OUT_DET | << |

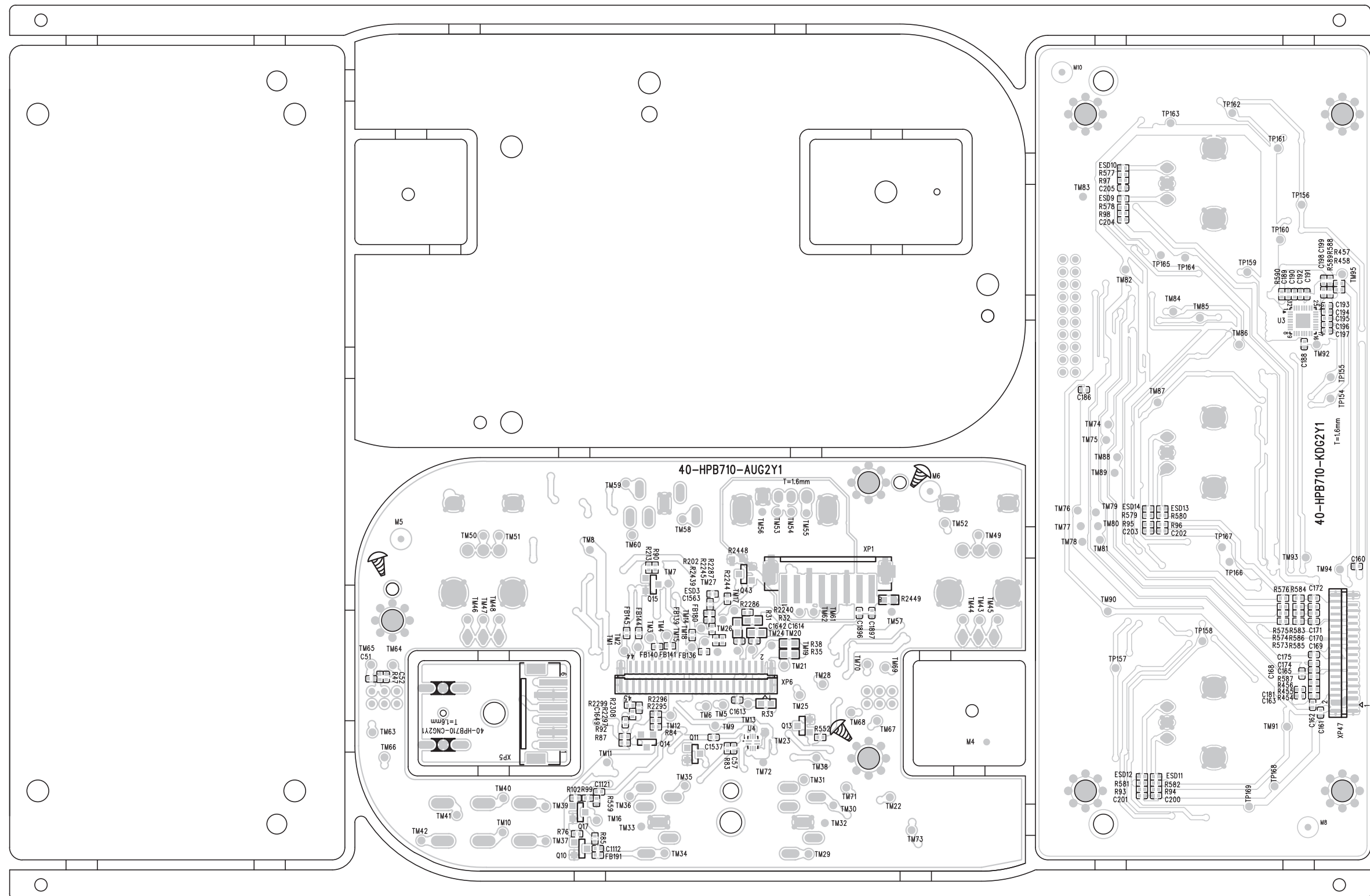


[illegible]

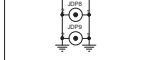
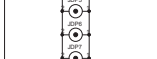
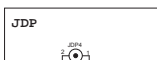
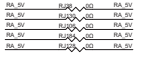
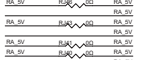
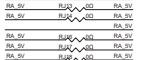
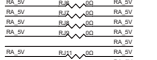
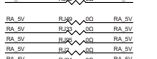
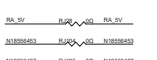
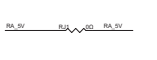
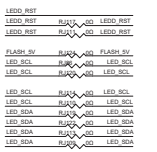
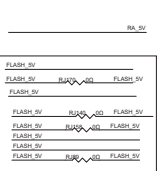
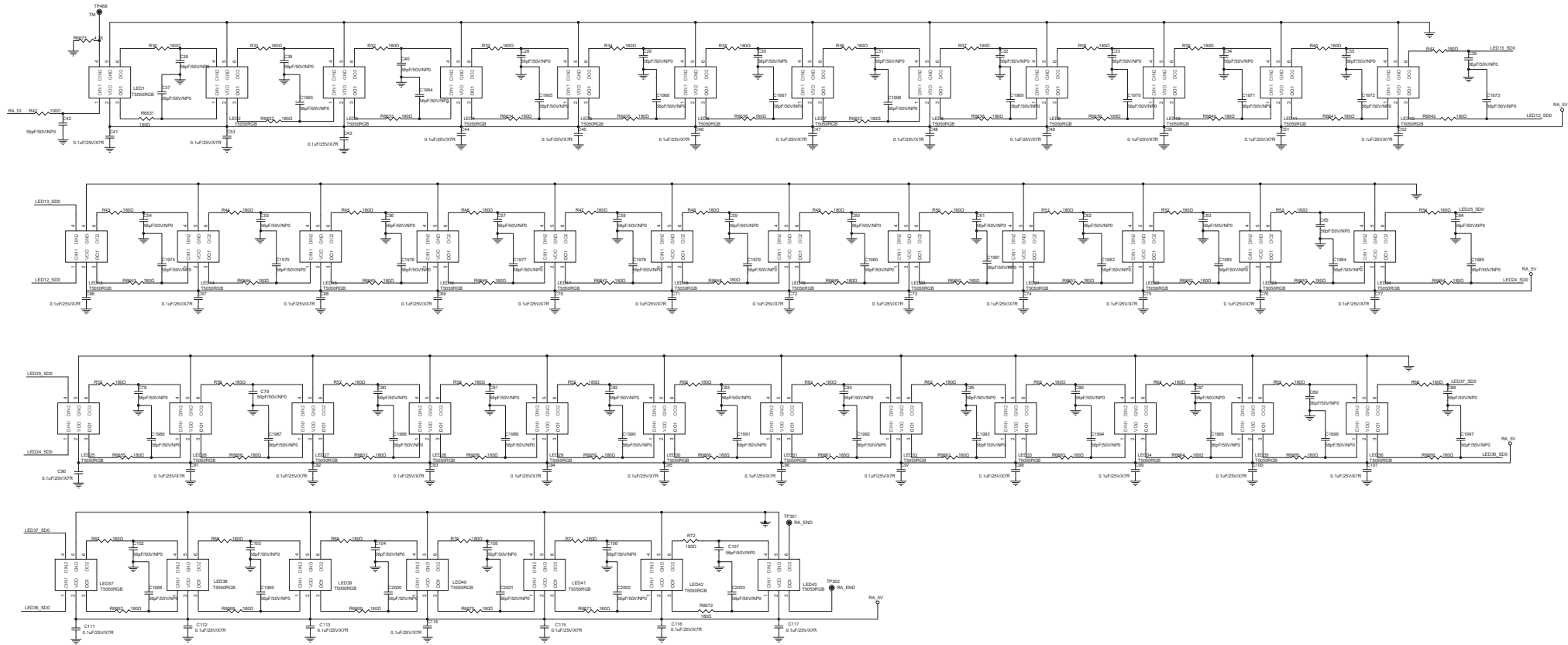
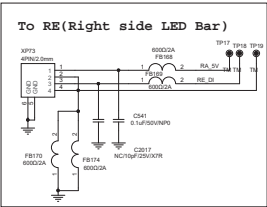
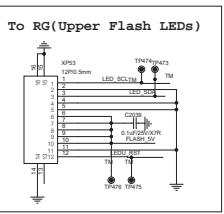
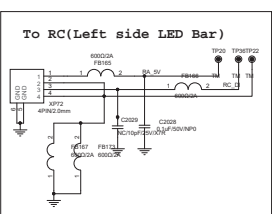
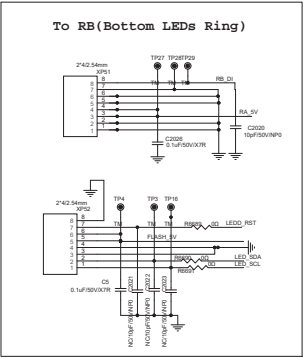
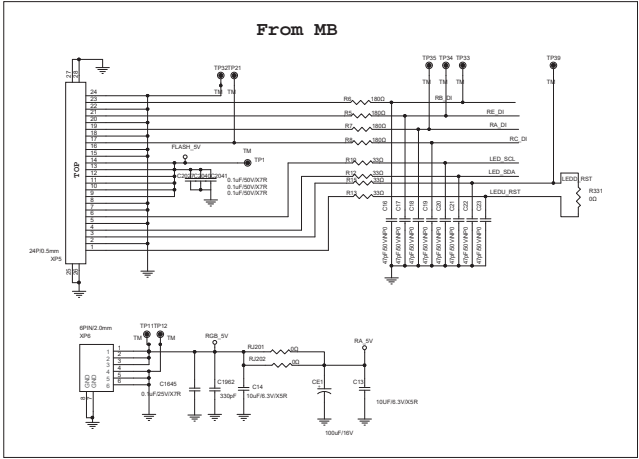
Layout Top View Diagram--AU+CN+KD PCBA



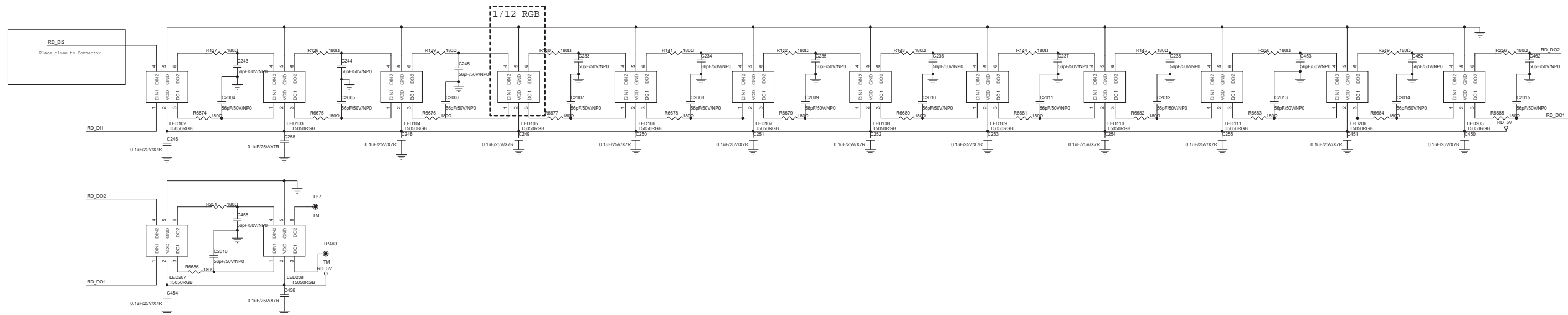
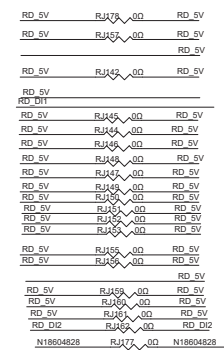
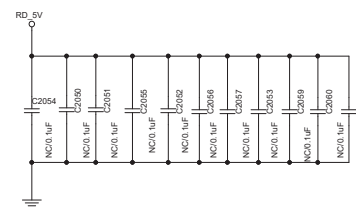
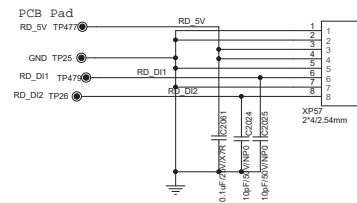
Layout Bottom View Diagram--AU+CN+KD PCBA



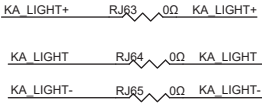
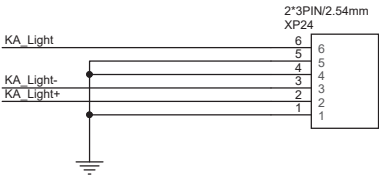
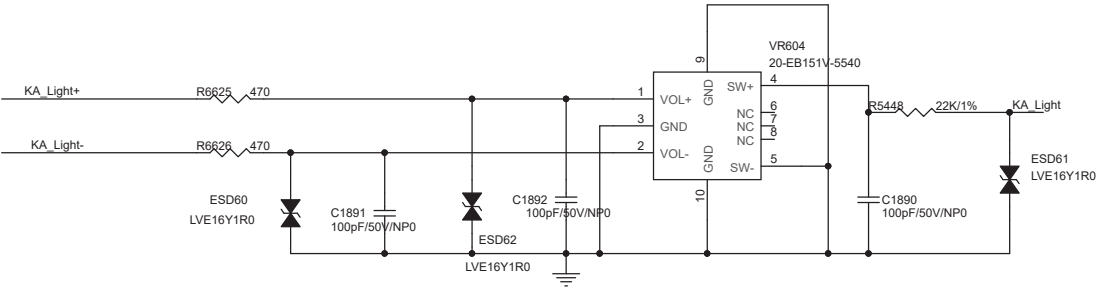
Circuit Diagram--RA+RD+KA+KB+KC+MI+GT PCBA



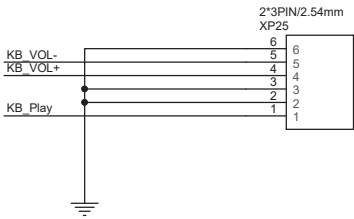
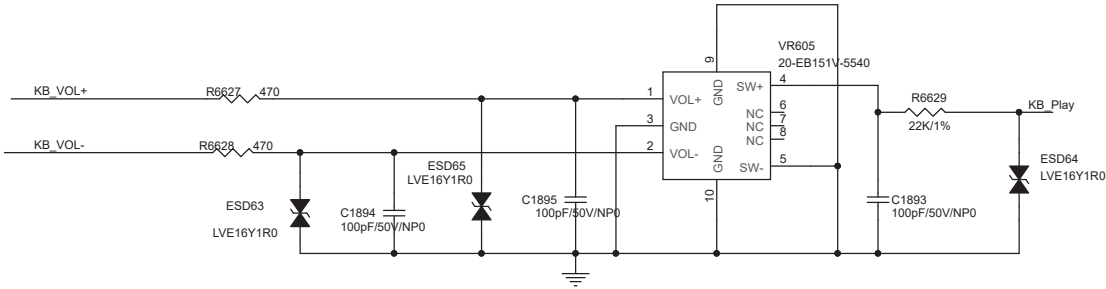
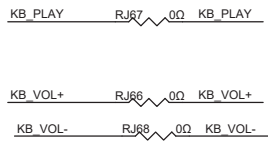
Circuit Diagram--RA+RD+KA+KB+KC+MI+GT PCBA



Circuit Diagram--RA+RD+KA+KB+KC+MI+GT PCBA

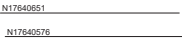
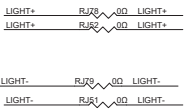
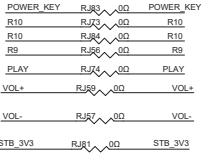
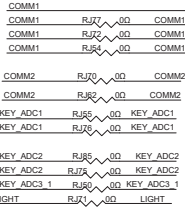
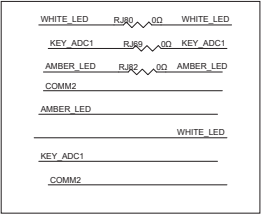
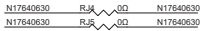
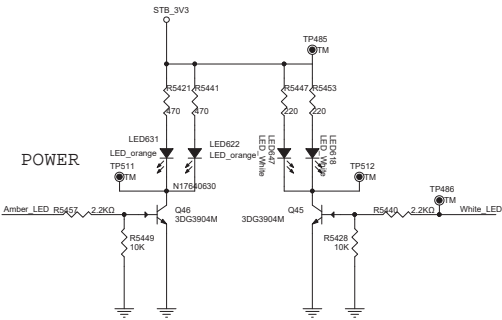
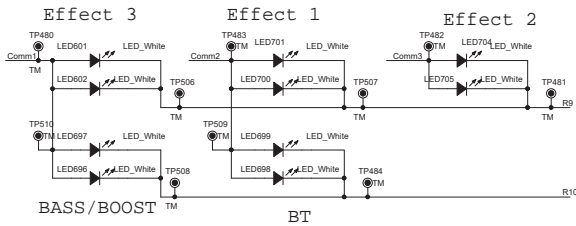
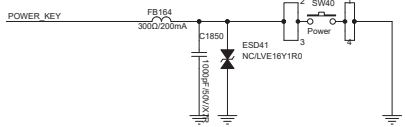
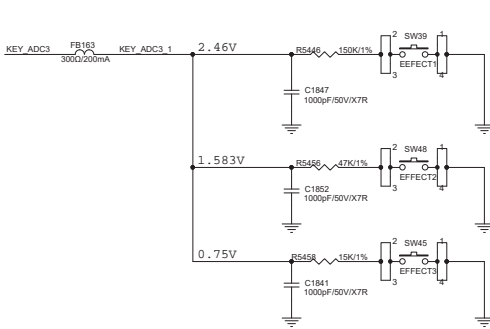
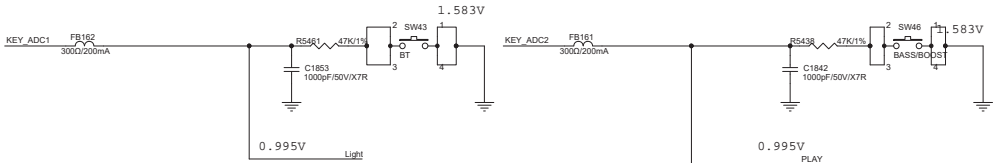
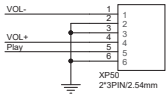
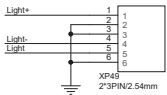
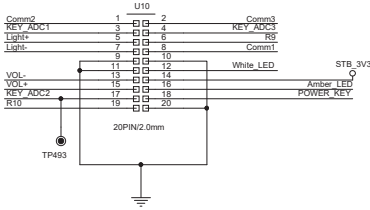


Circuit Diagram--RA+RD+KA+KB+KC+MI+GT PCBA

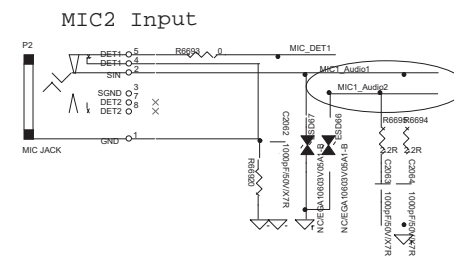
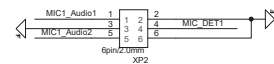
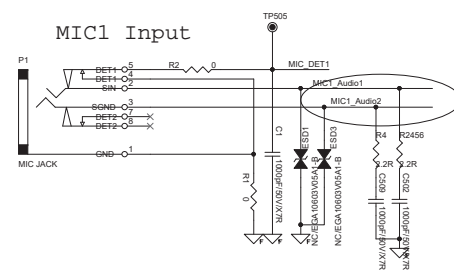


Circuit Diagram--RA+RD+KA+KB+KC+MI+GT PCBA

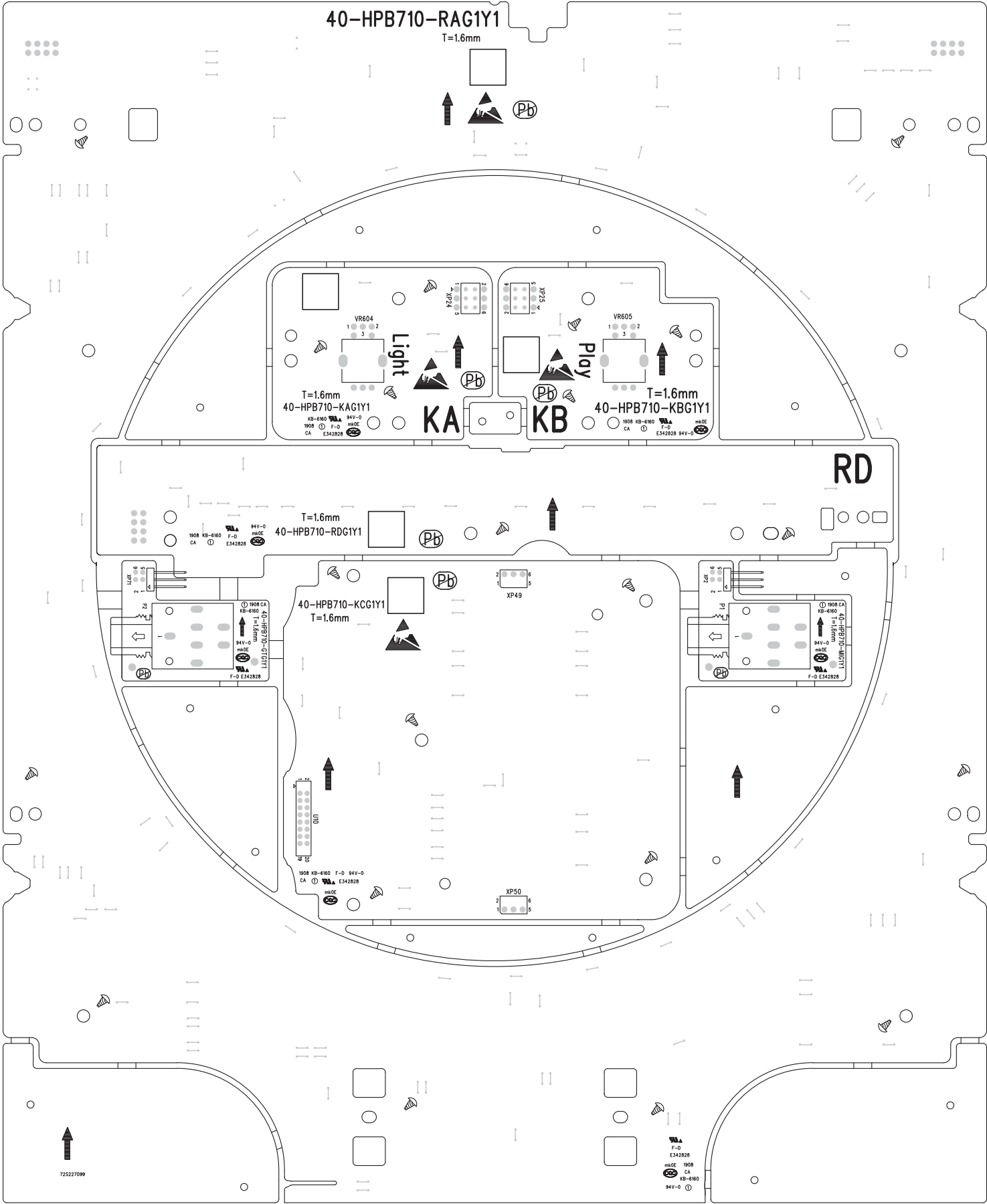
插座连线需要测试点，pcb板子已单独加测试点



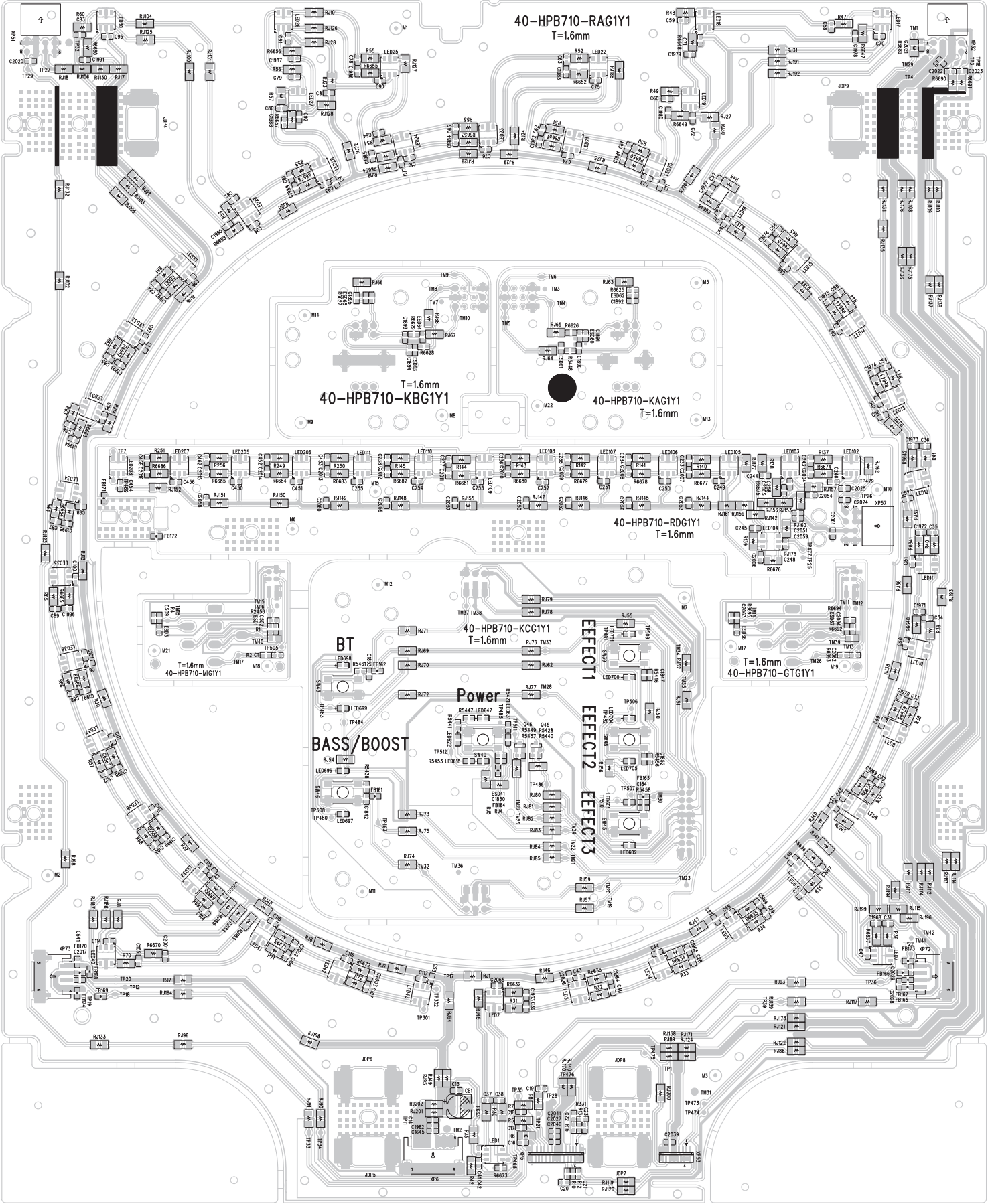
Circuit Diagram--RA+RD+KA+KB+KC+MI+GT PCBA



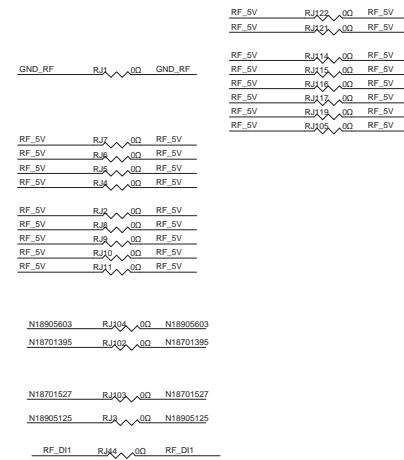
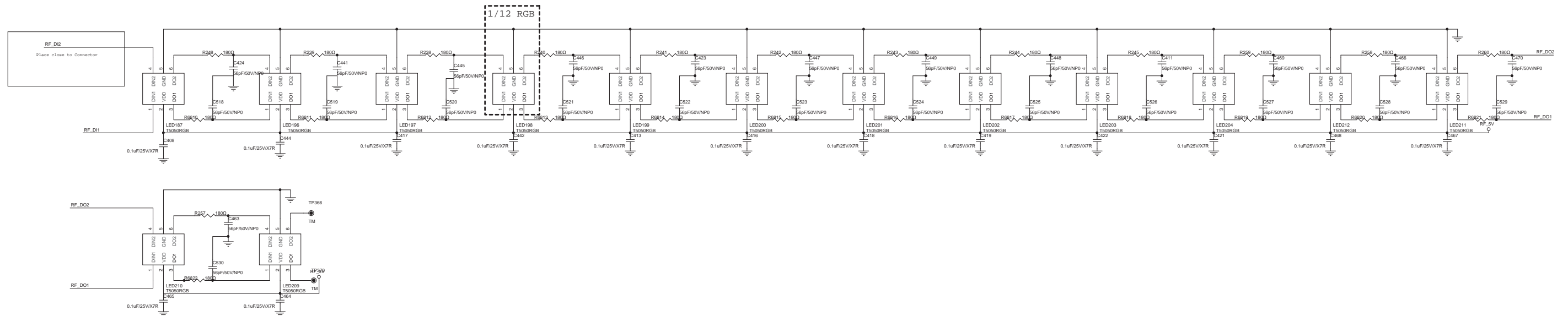
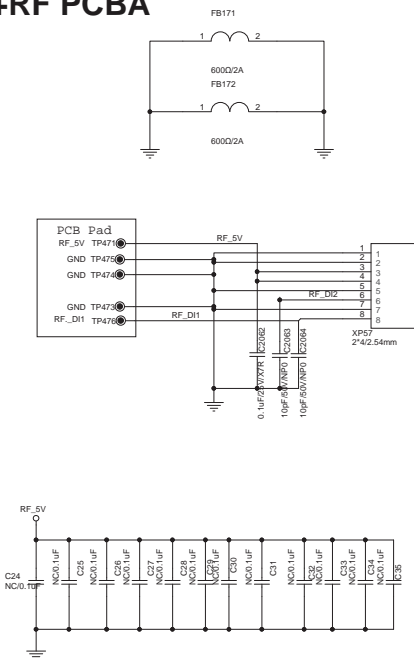
Layout Top View Diagram--RA+RD+KA+KB+KC+MI+GT PBCA



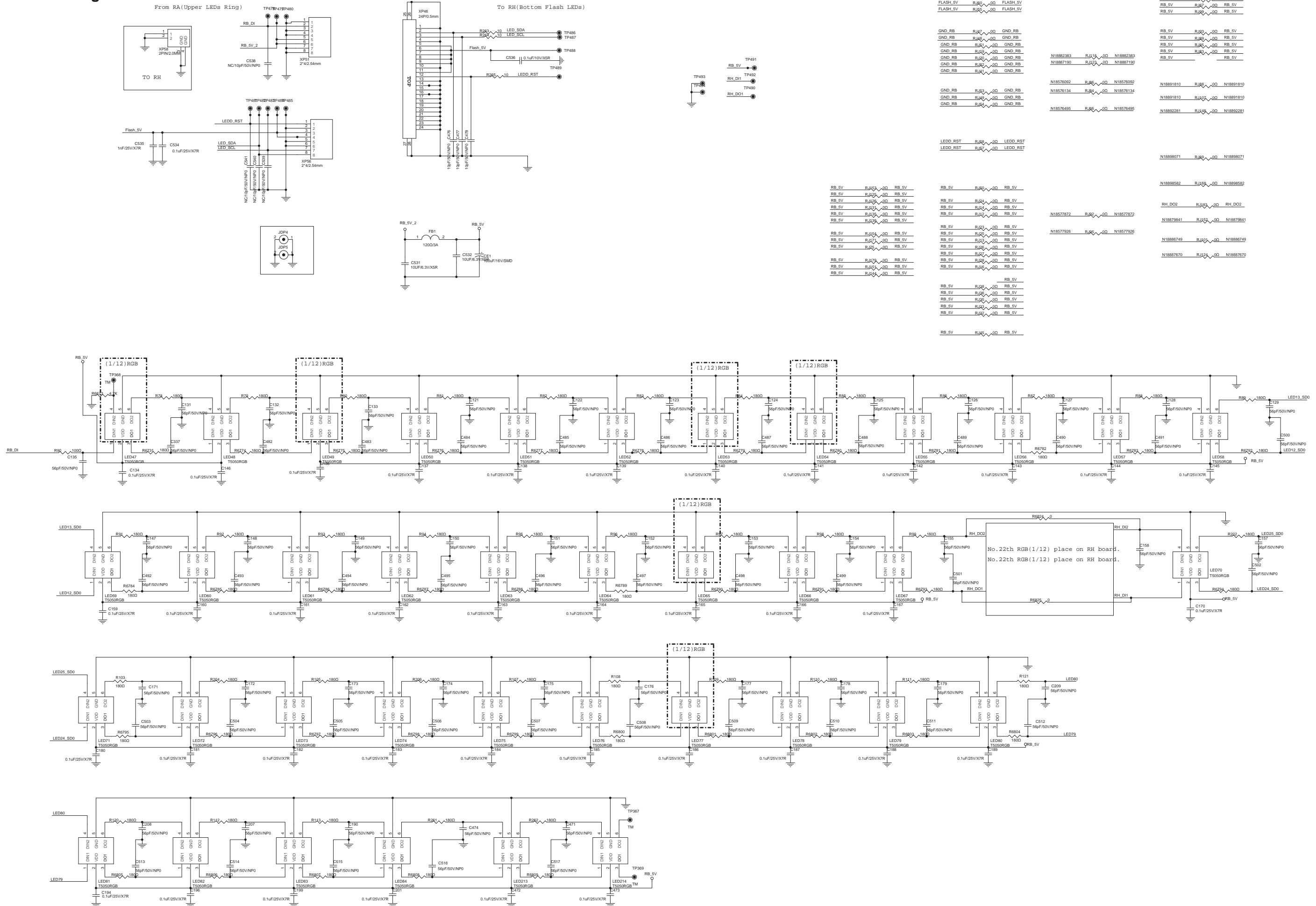
Layout Bottom View Diagram--RA+RD+KA+KB+KC+MI+GT PBCA



Circuit Diagram--RB+RF PCBA

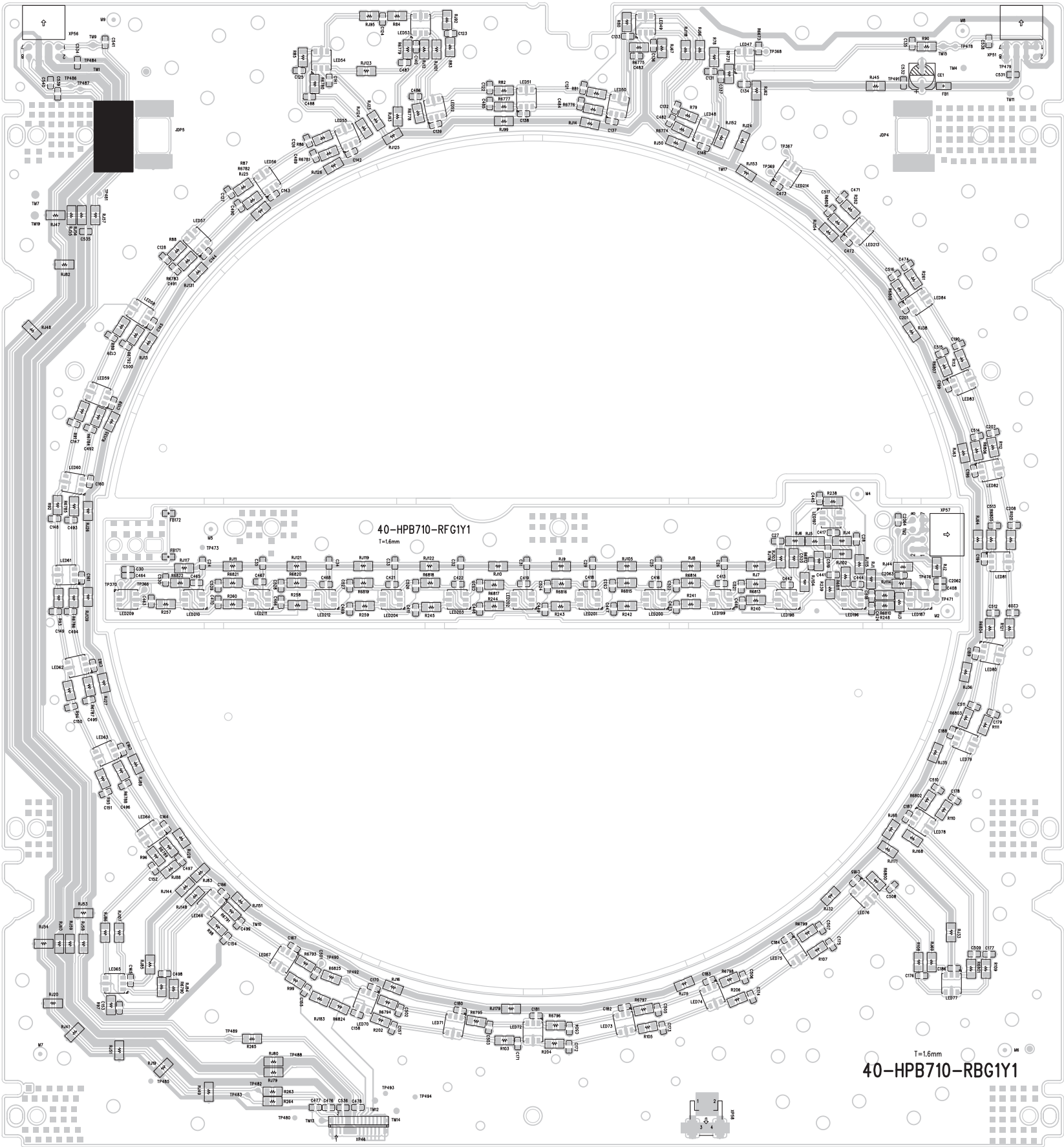


Circuit Diagram--RB+RF PCBA



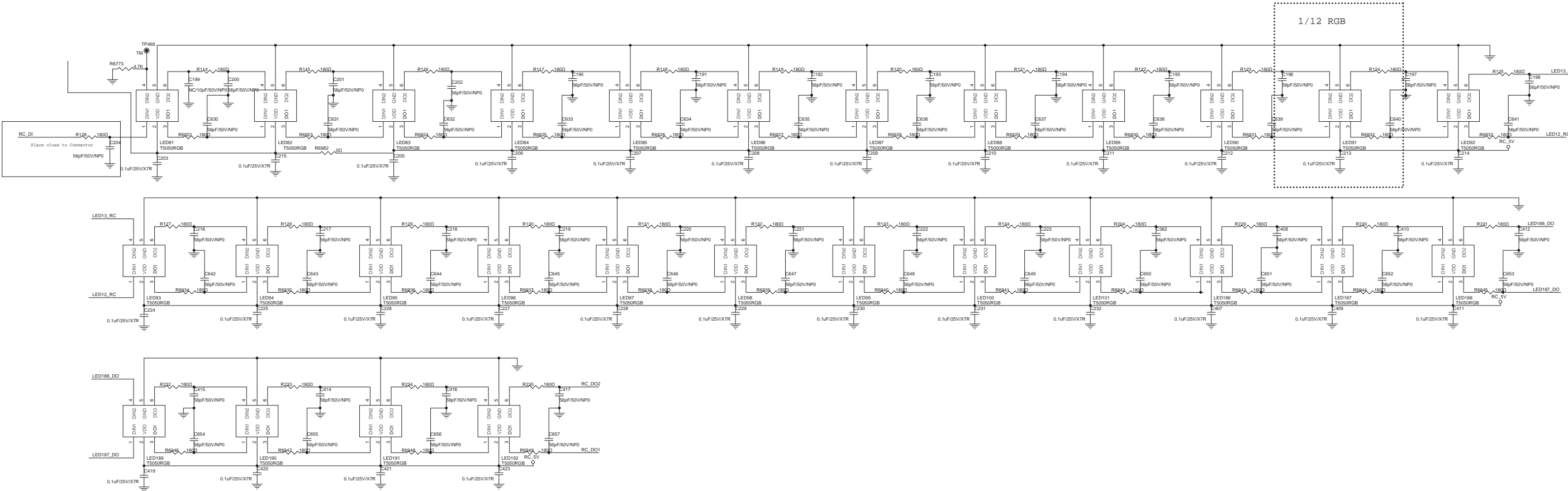
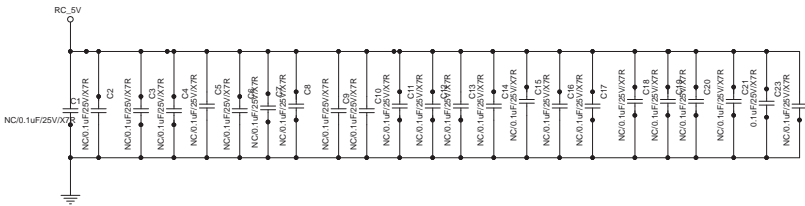
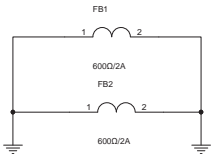
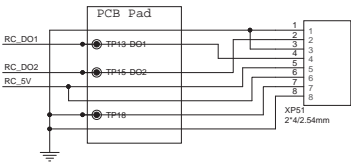
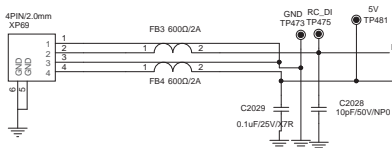
Layout Top View Diagram--RB+RF PCBA

Layout Bottom View Diagram--RB+RF PCBA

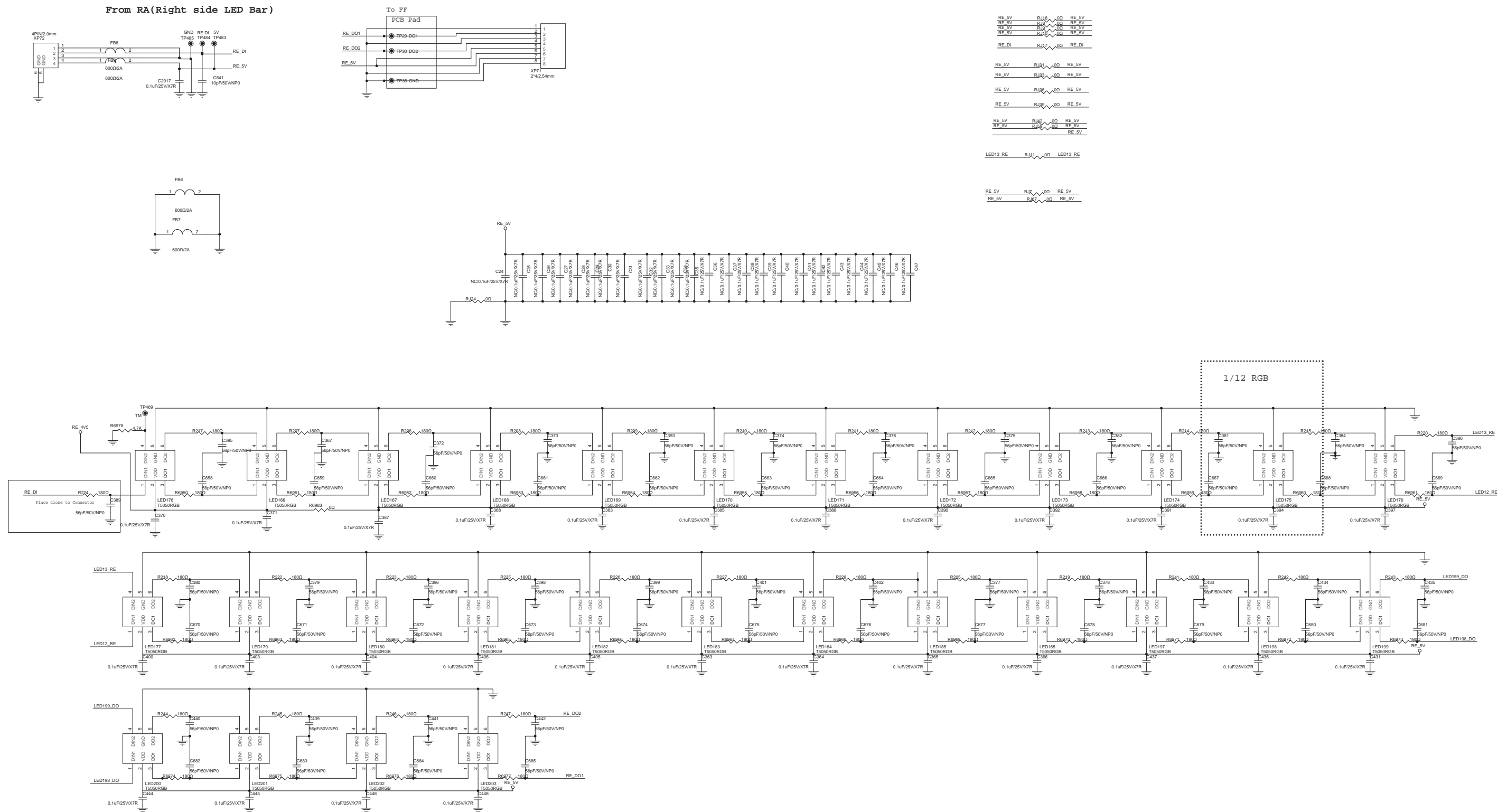


Circuit Diagram--RC+RE PCBA

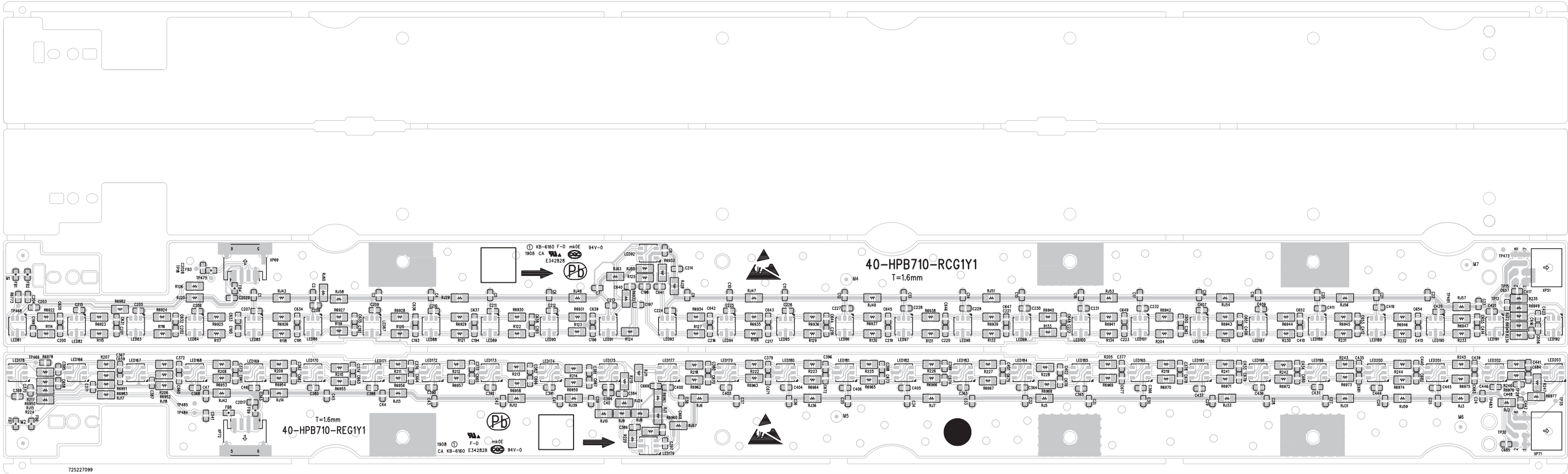
From RA(Left side LED Bar)



Circuit Diagram--RC+RE PCBA



Layout Top View Diagram--RC+RE PCBA

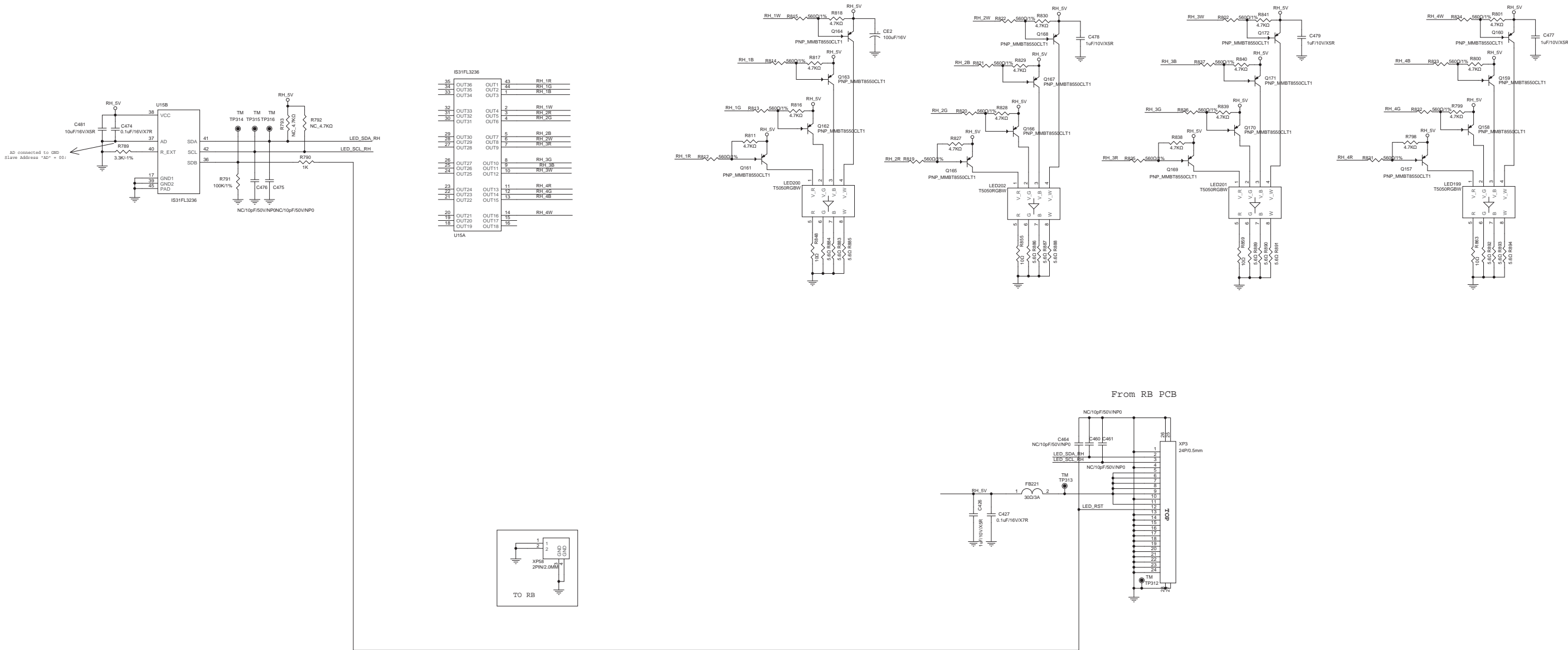


Layout Bottom View Diagram--RC+RE PCBA

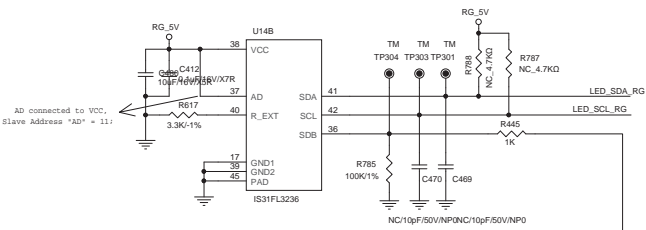


未认证，请参照公版音频线卡卡位引脚定义，将文源版研公版卡文源
，新卡线需卡卡位引脚定义，免需再设门引脚定义，除性，转置桥不省伏强

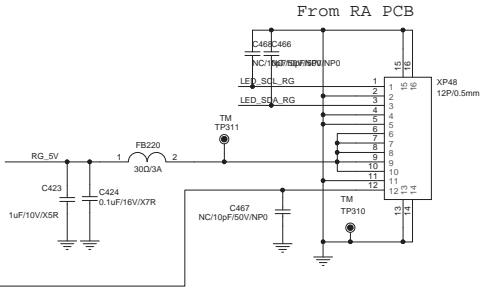
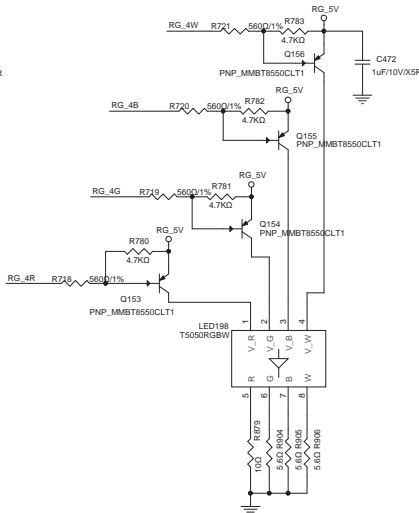
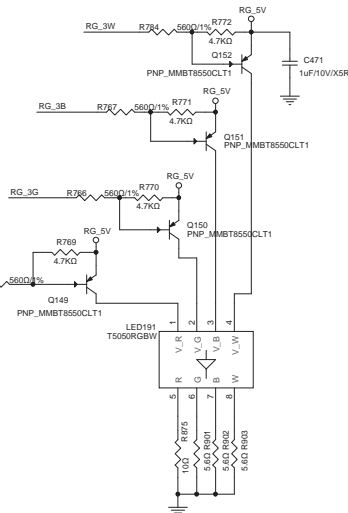
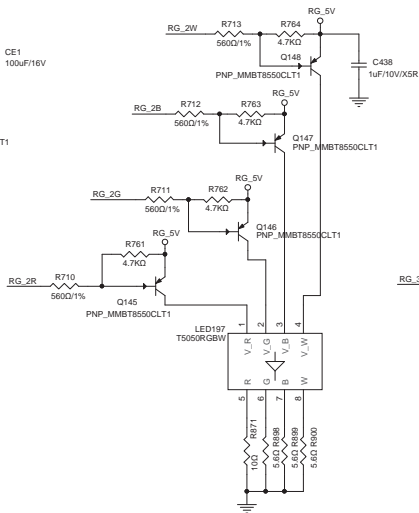
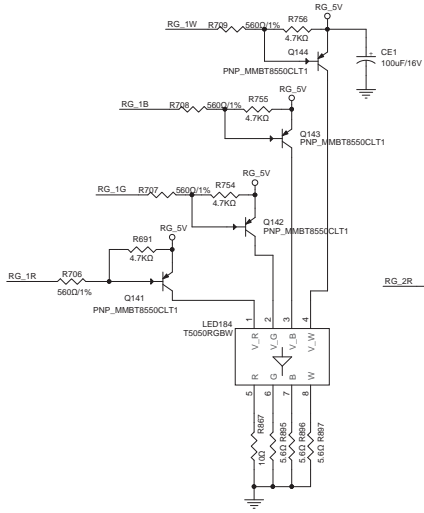
Circuit Diagram--RG+RH PCBA



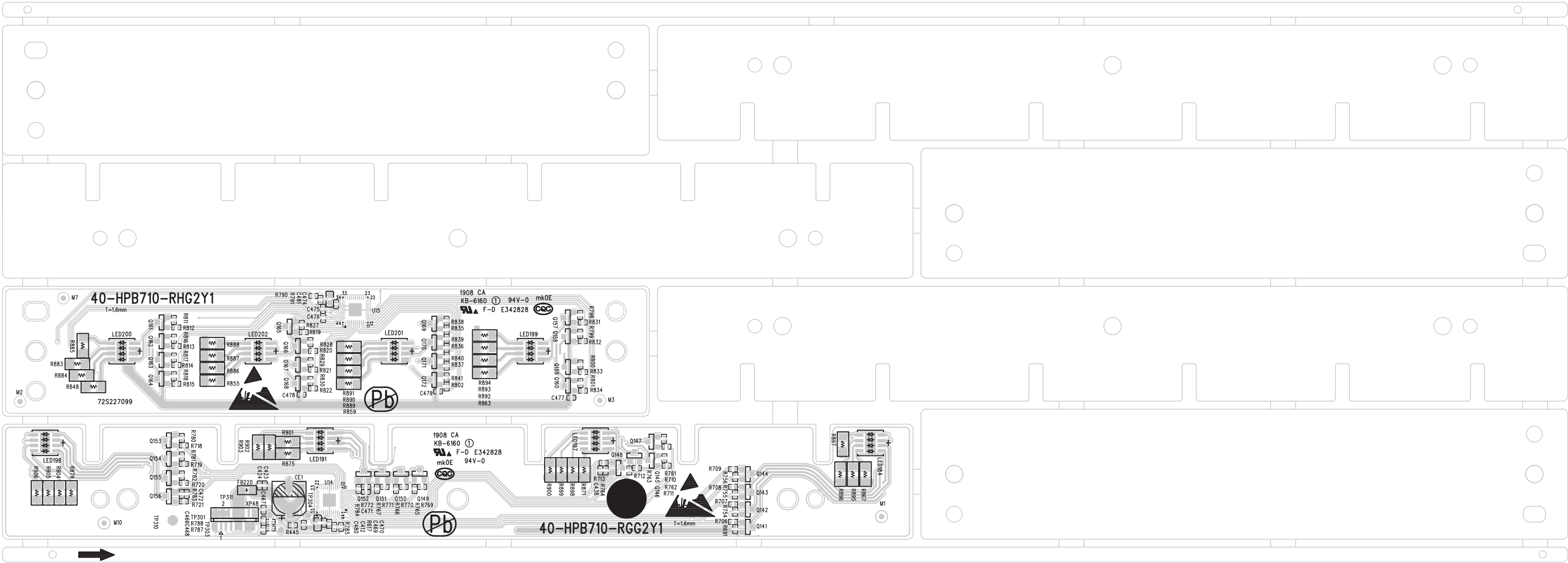
Circuit Diagram--RG+RH PCBA



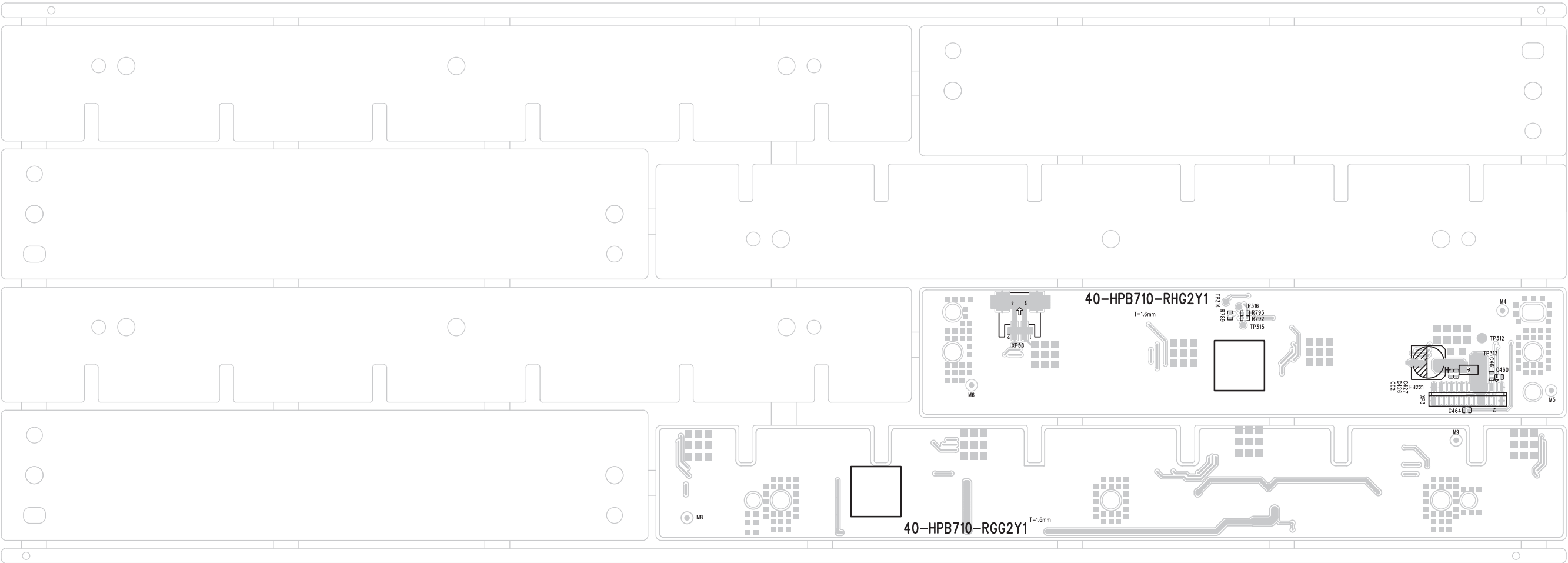
| U14A | | |
|------|-------|-------|
| 35 | OUT36 | OUT1 |
| 34 | OUT35 | OUT2 |
| 33 | OUT34 | OUT3 |
| 32 | OUT33 | OUT4 |
| 31 | OUT32 | OUT5 |
| 30 | OUT31 | OUT6 |
| 29 | OUT30 | OUT7 |
| 28 | OUT29 | OUT8 |
| 27 | OUT28 | OUT9 |
| 26 | OUT27 | OUT10 |
| 25 | OUT26 | OUT11 |
| 24 | OUT25 | OUT12 |
| 23 | OUT24 | OUT13 |
| 22 | OUT23 | OUT14 |
| 21 | OUT22 | OUT15 |
| 20 | OUT21 | OUT16 |
| 19 | OUT20 | OUT17 |
| 18 | OUT19 | OUT18 |



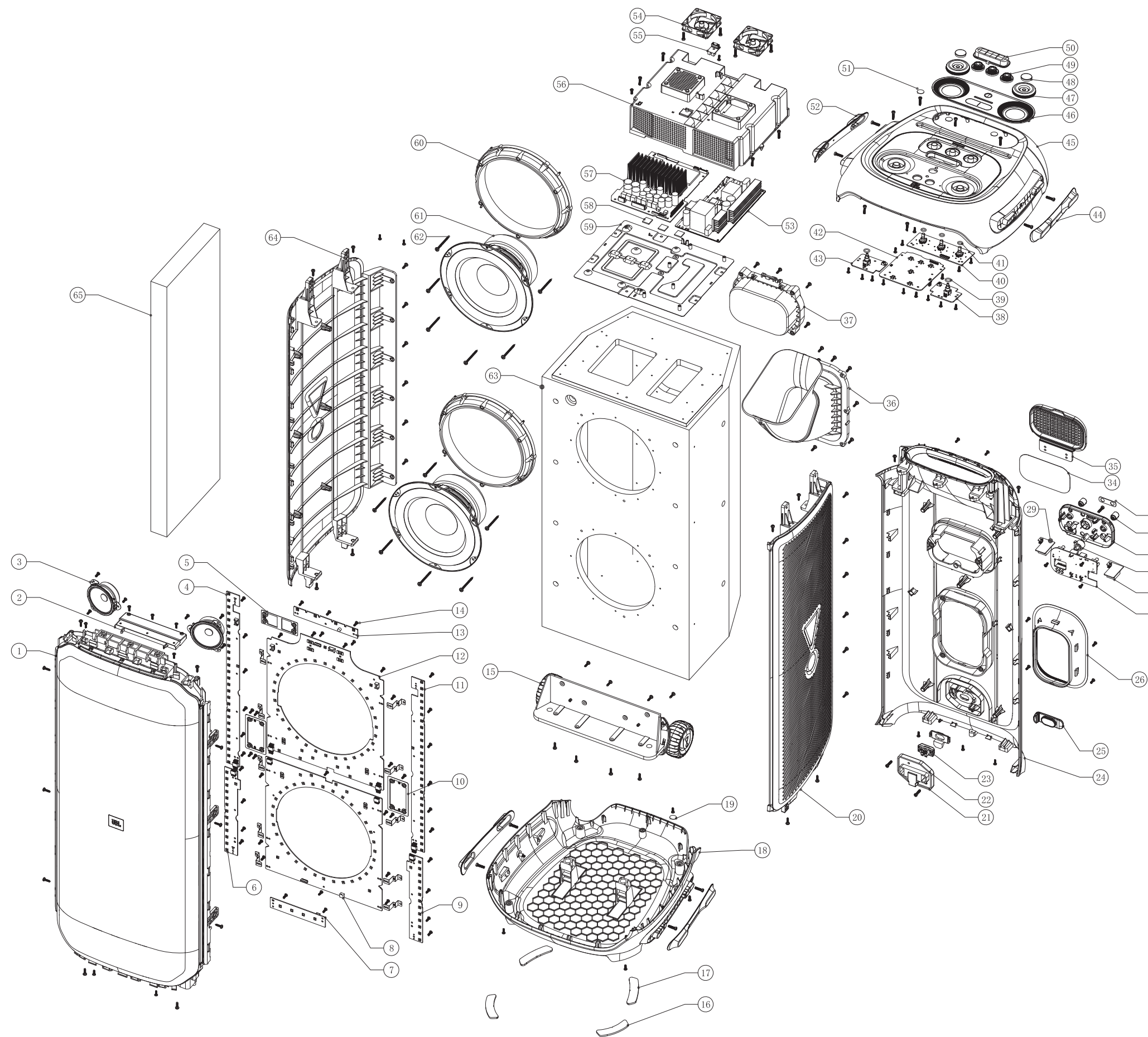
Layout Top View Diagram--RG+RH PCBA



Layout Bottom View Diagram--RG+RH PCBA



MECHANICAL EXPLODED VIEW



| Pos. No. | Part Number | SAP Description | Usage |
|-----------------------|------------------|---|-------|
| 1 | 08-HPB710-FC0S | FRONT GRILLE ASSY PB710 | 1 |
| 2 | 08-B710F1-0HNS | FRONT COVER CONVERT BRACKET PB710 | 1 |
| 3 | 42-025040-04001 | TWEETER SPEAKER 2.75 INCH PB710 | 2 |
| 4 | 08-HPB710-RC0S | LAMP BOARD C PB710 | 1 |
| 5 | 67-456490-0S0 | SHIELD COVER TOP PB710 | 1 |
| 6 | 08-HPB710-RD0S | LAMP BOARD D PB710 | 1 |
| 7 | 08-HPB710-RH0S | LAMP BOARD H PB710 | 1 |
| 8 | 08-HPB710-RB0S | LAMP BOARD B PB710 | 1 |
| 9 | 08-HPB710-RF0S | LAMP BOARD F PB710 | 1 |
| 10 | 67-456500-0E0 | SHIELD COVER MIDDLE PB710 | 2 |
| 11 | 08-HPB710-RE0S | LAMP BOARD E PB710 | 1 |
| 12 | 08-HPB710-RA0S | LAMP BOARD A PB710 | 1 |
| 13 | 08-HPB710-RG0S | LAMP BOARD G PB710 | 1 |
| 14 | 63-B30100-BF8 | SCREW PB710 | 84 |
| 15 | 08-HPB710-JL0S | WHEEL BRACKET ASSY PB710 | 1 |
| 16 | 59-454490-000B1 | FRONT FOOT PAD PB710 | 2 |
| 17 | 59-454500-000B1 | REAR FOOT PAD PB710 | 2 |
| 18 | 08-B710B1-XX0B1S | BOTTOM COVER PB710 | 1 |
| 20 | 08-B710L0-XX0B1S | COVER LEFT PB710 | 1 |
| 24+25 | 08-HPB710-BC0S | REAR COVER PB710 | 1 |
| 26 | 08-B710K0-0HNS | PORT TUBE DECORATION COVER PB710 | 1 |
| 27 | 08-HPB710-AU0S | TERMINAL BOARD PB710 | 1 |
| 28 | 08-HPB710-GT0S | GUITAR BOARD PB710 | 1 |
| 29 | 08-HPB710-MC0S | MIC BOARD PB710 | 1 |
| 30 | 59-381500-000B1 | BOOST SILICONE BUTTON PB310/PB710 | 1 |
| 31 | 08-B710L2-XX0B1S | TERMINAL PANEL PB710 | 1 |
| 32 | 56-JBG1N1-0HAB1 | MIC BUTTON PB1000/PB310/PB710/PB200/300 | 2 |
| 33 | 57-456820-000B1 | BACKBOARD DECORATION PC SHEET PB710 | 1 |
| 34 | 58-454680-000B1 | WATERPROOF PC SHEET PB710 | 1 |
| 35 | 08-B710H0-000B1S | TERMINAL WATERPROOF COVER PB710 | 1 |
| 36 | 08-B710K1-XX0S | PORT TUBE PB710 | 1 |
| 38 | 08-HPB710-KB0S | KNOB BOARD B PB710 | 1 |
| 39 | 59-454430-000 | WATERPROOF CIRCLE PB710 | 2 |
| 40 | 08-HPB710-KD0S | KNOB BOARD D PB710 | 1 |
| 41 | 59-454440-000 | WATERPROOF CIRCLE PB710 | 3 |
| 42 | 08-HPB710-KC0S | KEY BOARD C PB710 | 1 |
| 43 | 08-HPB710-KA0S | KNOB BOARD A PB710 | 1 |
| 44 | 59-454420-000B1 | FOOT PAD R PB710 | 2 |
| 45 | 08-B710T0-XX0B1S | TOP COVER PB710 | 1 |
| 46 | 08-B710H2-000B1S | TOP COVER CONTROL PANEL PB710 | 1 |
| 47 | 02-B710S2-XX0B1 | VOLUME KNOB PB710 | 2 |
| 48 | 56-B710M2-0HAB2 | PAUSE BUTTON PB710 | 1 |
| 49 | 56-B710M1-0HA | FUNCTION KNOB PB710 | 3 |
| 50 | 59-B710H3-000B1 | SILICONE BUTTON PB710 | 1 |
| 52 | 59-454410-000B1 | FOOT PAD L PB710 | 2 |
| 53 | 08-HPB710-PW0S | POWER BOARD PB710 | 1 |
| 54 | 08-FM612Y-311S | FAN PB710 | 2 |
| 55 | 08-HPB710-CN0S | FAN ADAPTER BOARD PB710 | 1 |
| 56 | 08-B710G0-0UAS | FIREPROOF COVER PB710 | 1 |
| 59 | 08-453230-XX0S | MAINBOARD BRACKET PB710 | 1 |
| 61 | 42-085200-04001 | WOOFER SPEAKER 8 INCH PB710 | 2 |
| 64 | 08-B710R0-XX0B1S | COVER RIGHT PB710 | 1 |
| 19+51 | 57-454120-000 | SCREW COVER SHEET PB710 | 4 |
| 21+22+23 | 08-HPB710-AC0S | AC ASSY PB710 | 1 |
| 37+60+61+ 62+63+65 | 08-HPB710-WB0S | WOODEN ASSY PB710 | 1 |
| 57+58 | 08-HPB710-MA0S | MAIN BOARD PB710 | 1 |

JBL Partybox 710 Spare Parts List

| SKU Group | Pos. No. | Part Number | SAP Description | Usage |
|--------------|-------------------|------------------|---|-------|
| Partybox 710 | 1 | 08-HPB710-FC0S | FRONT GRILLE ASSY PB710 | 1 |
| Partybox 710 | 2 | 08-B710F1-0HNS | FRONT COVER CONVERT BRACKET PB710 | 1 |
| Partybox 710 | 3 | 42-025040-04001 | TWEETER SPEAKER 2.75 INCH PB710 | 2 |
| Partybox 710 | 4 | 08-HPB710-RC0S | LAMP BOARD C PB710 | 1 |
| Partybox 710 | 5 | 67-456490-0S0 | SHIELD COVER TOP PB710 | 1 |
| Partybox 710 | 6 | 08-HPB710-RD0S | LAMP BOARD D PB710 | 1 |
| Partybox 710 | 7 | 08-HPB710-RH0S | LAMP BOARD H PB710 | 1 |
| Partybox 710 | 8 | 08-HPB710-RB0S | LAMP BOARD B PB710 | 1 |
| Partybox 710 | 9 | 08-HPB710-RF0S | LAMP BOARD F PB710 | 1 |
| Partybox 710 | 10 | 67-456500-0E0 | SHIELD COVER MIDDLE PB710 | 2 |
| Partybox 710 | 11 | 08-HPB710-RE0S | LAMP BOARD E PB710 | 1 |
| Partybox 710 | 12 | 08-HPB710-RA0S | LAMP BOARD A PB710 | 1 |
| Partybox 710 | 13 | 08-HPB710-RG0S | LAMP BOARD G PB710 | 1 |
| Partybox 710 | 14 | 63-B30100-BF8 | SCREW PB710 | 84 |
| Partybox 710 | 15 | 08-HPB710-JL0S | WHEEL BRACKET ASSY PB710 | 1 |
| Partybox 710 | 16 | 59-454490-000B1 | FRONT FOOT PAD PB710 | 2 |
| Partybox 710 | 17 | 59-454500-000B1 | REAR FOOT PAD PB710 | 2 |
| Partybox 710 | 18 | 08-B710B1-XX0B1S | BOTTOM COVER PB710 | 1 |
| Partybox 710 | 20 | 08-B710L0-XX0B1S | LEFT COVER PB710 | 1 |
| Partybox 710 | 24+25 | 08-HPB710-BC0S | REAR COVER PB710 | 1 |
| Partybox 710 | 26 | 08-B710K0-0HNS | AIR DUCT DECORATION COVER PB710 | 1 |
| Partybox 710 | 27 | 08-HPB710-AU0S | TERMINAL BOARD PB710 | 1 |
| Partybox 710 | 28 | 08-HPB710-GT0S | GUITAR BOARD PB710 | 1 |
| Partybox 710 | 29 | 08-HPB710-MC0S | MIC BOARD PB710 | 1 |
| Partybox 710 | 30 | 59-381500-000B1 | BOOST SILICONE BUTTON PB310/PB710 | 1 |
| Partybox 710 | 31 | 08-B710L2-XX0B1S | TERMINAL PANEL PB710 | 1 |
| Partybox 710 | 32 | 56-JBG1N1-0HAB1 | MIC BUTTON PB1000/PB310/PB710/PB200/300 | 2 |
| Partybox 710 | 33 | 57-456820-000B1 | BACKBOARD DECORATION PC SHEET PB710 | 1 |
| Partybox 710 | 34 | 58-454680-000B1 | WATERPROOF PC SHEET PB710 | 1 |
| Partybox 710 | 35 | 08-B710H0-000B1S | TERMINAL WATERPROOF COVER PB710 | 1 |
| Partybox 710 | 36 | 08-B710K1-XX0S | PORT TUBE PB710 | 1 |
| Partybox 710 | 38 | 08-HPB710-KB0S | KNOB BOARD B PB710 | 1 |
| Partybox 710 | 39 | 59-454430-000 | WATERPROOF CIRCLE PB710 | 2 |
| Partybox 710 | 40 | 08-HPB710-KD0S | KNOB BOARD D PB710 | 1 |
| Partybox 710 | 41 | 59-454440-000 | WATERPROOF CIRCLE PB710 | 3 |
| Partybox 710 | 42 | 08-HPB710-KC0S | KEY BOARD C PB710 | 1 |
| Partybox 710 | 43 | 08-HPB710-KA0S | KNOB BOARD A PB710 | 1 |
| Partybox 710 | 44 | 59-454420-000B1 | R FOOT PAD PB710 | 2 |
| Partybox 710 | 45 | 08-B710T0-XX0B1S | TOP COVER PB710 | 1 |
| Partybox 710 | 46 | 08-B710H2-000B1S | TOP COVER CONTROL PANEL PB710 | 1 |
| Partybox 710 | 47 | 02-B710S2-XX0B1 | VOLUME KNOB PB710 | 2 |
| Partybox 710 | 48 | 56-B710M2-0HAB2 | PAUSE BUTTON PB710 | 1 |
| Partybox 710 | 49 | 56-B710M1-0HA | FUNCTION KNOB PB710 | 3 |
| Partybox 710 | 50 | 59-B710H3-000B1 | SILICONE BUTTON PB710 | 1 |
| Partybox 710 | 52 | 59-454410-000B1 | L FOOT PAD PB710 | 2 |
| Partybox 710 | 53 | 08-HPB710-PW0S | POWER BOARD PB710 | 1 |
| Partybox 710 | 54 | 08-FM612Y-311S | FAN PB710 | 2 |
| Partybox 710 | 55 | 08-HPB710-CN0S | FAN ADAPTER BOARD PB710 | 1 |
| Partybox 710 | 56 | 08-B710G0-0UAS | FIREPROOF COVER PB710 | 1 |
| Partybox 710 | 59 | 08-453230-XX0S | MAINBOARD BRACKET PB710 | 1 |
| Partybox 710 | 61 | 42-085200-04001 | 8"WOOFER SPEAKER PB710 | 2 |
| Partybox 710 | 64 | 08-B710R0-XX0B1S | RIGHT COVER PB710 | 1 |
| Partybox 710 | 19+51 | 57-454120-000 | SCREW COVER SHEET PB710 | 4 |
| Partybox 710 | 21+22+23 | 08-HPB710-AC0S | AC ASSY PB710 | 1 |
| Partybox 710 | 37+60+61+62+63+65 | 08-HPB710-WB0S | WOODEN ASSY PB710 | 1 |
| Partybox 710 | 57+58 | 08-HPB710-MA0S | MAIN BOARD PB710 | 1 |

| | | | | |
|--------------|--|-------------------|-----------------------------------|---|
| Partybox 710 | | 51-B80200-0LY08-M | POWER CORD 2M AM/RU PB710/PB1000 | 1 |
| Partybox 710 | | 51-D70200-0CY08-M | POWER CORD 2M EP PB710/PB1000 | 1 |
| Partybox 710 | | 51-D70200-0AY08-M | POWER CORD 2M UK PB710/PB1000 | 1 |
| Partybox 710 | | 51-D70200-0PY08-M | POWER CORD 2M AU PB710/PB310 | 1 |
| Partybox 710 | | 51-D70200-0KY08-M | POWER CORD 2M KO PB710/PB1000 | 1 |
| Partybox 710 | | 51-D70200-0DY08-M | POWER CORD 2M THA PB710/PB310 | 1 |
| Partybox 710 | | 51-G70200-0GY08-M | POWER CORD 2M CN PB710/PB1000 | 1 |
| Partybox 710 | | 51-D70200-01Y08-M | POWER CORD 2M BR PB710/PB1000 | 1 |
| Partybox 710 | | 51-D70200-0NY08-M | POWER CORD 2M IN PB710/PB1000 | 1 |
| Partybox 710 | | 46-KK080C-24BU | FFC CABLE 24P 80MM PB710 | 1 |
| Partybox 710 | | 46-KK045C-45BUF | FFC CABLE 45P 448MM PB710 | 1 |
| Partybox 710 | | 46-DD012C-12BU | FFC CABLE 12P 120MM PB710 | 1 |
| Partybox 710 | | 46-KK022C-24BUF3 | FFC CABLE 24P 220MM PB710 | 1 |
| Partybox 710 | | 46-KK029C-34BUF | FFC CABLE 34P 290MM PB710 | 1 |
| Partybox 710 | | 46-KL044T-04QF | SPEAKER WIRE 4P 380MM/440MM PB710 | 1 |
| Partybox 710 | | 46-KL092T-08QF | SPEAKER WIRE 8P 620MM/920MM PB710 | 1 |
| Partybox 710 | | 46-FF028T-06XF1 | CABLE 6P 280MM PB710 | 1 |
| Partybox 710 | | 46-LL020T-01X2 | GROUND WIRE 200MM PB710 | 3 |
| Partybox 710 | | 46-LL018T-02XF | GROUND WIRE 130MM/180MM PB710 | 1 |
| Partybox 710 | | 47-ANT648-XX0 | BLUETOOTH ANTENNA 115MM PB710 | 1 |

KEY COMBINATION BEHAVIOR

| Button Pattern | Action | Indicator |
|--|---|---|
| Play & Bluetooth | Long press > 10s | Enter DFU mode in On Mode |
| Light & Bass boost | Long press > 2s | Show module sub versions (SoC/BT/DSP) in On Mode. |
| Light & Play | Long press > 10s | Reset to factory default in On Mode. |
| Light & Bluetooth & Short debug jumper cap | Long press > 10s | Enter by-pass mode in On Mode. |
| Bluetooth & Bass boost | Long press > 2s | Show SW version in On Mode. Main version of firmware i.e. v1.0.0 |
| | Long press Bass boost and hold, Press Bluetooth 3 times | Show S/N number in On Mode. |
| Play & Bass boost | Long press > 5s | Enter/Exit Demo mode in On Mode when AC is connected. |

REVISION LIST

Version 1.0
* Initial release. July 2021