

Service Manual



Model No.: 20M301

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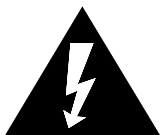
This manual is the latest at the time of printing, and does not include the modification which may be made after printing, by the constant improvement of product.

SCHNEIDER ELECTRONICS GMBH-GERMANY

1. CAUTION

CAUTION:

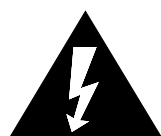
Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.



CAUTION
RISK OF ELECTRIC
SHOCK DO NOT OPEN.



CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lighting flash with arrowhead symbol, with 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 the person.



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.

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

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions- All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- 10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



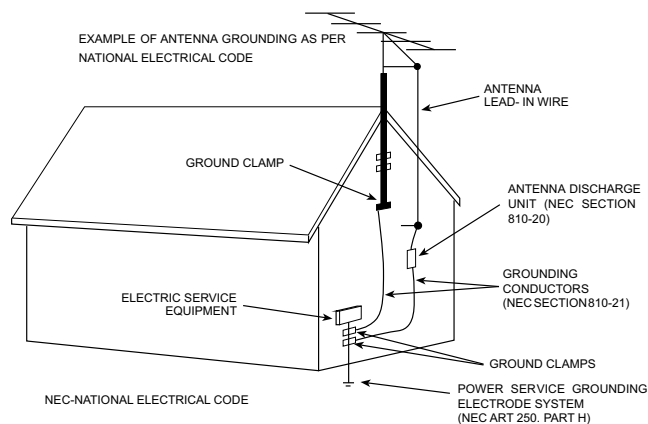
PROTECTION AND LOCATION OF YOUR SET

11. • Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
 - Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.
12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.
14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
 - Never cover the slots or openings with cloth or other material.
 - Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
 - Never place the set near or over a radiator or heat register.
 - Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

PROTECTION AND LOCATION OF YOUR SET

- 15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, 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 electrode, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that 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 practical.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET

18. This television set should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set " off " and unplug the television set from the wall outlet.

IF THE SET DOES NOT OPERATE PROPERLY

21. If you are unable to restore normal operation by following the detailed procedure in your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICE AND MODIFICATION

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

2.Product Specification

Model No.: 20M301

Environment

Environment Temperature	Operation Temperature ()	5 ~ 35
	Store Temperature ()	-15~60
Humidity	Operation Humidity (%)	10% ~ 80%
	Store Humidity (%)	10% ~ 90%
Air Pressure (kps)		86 ~ 106

Screen Parameter

Screen Size	20.1"	Angle of View (H/V)	150°/125°
Max. Resolution	1280 x 768	Responsive Time	25ms
Ratio	☐ 16:9 ☒ 4:3	Image Size(mm x mm)	0.300 × 0.300
Contrast (Darkness, Nakedness)	350:1	Color Temperature(°K)	Warm : 9300
Max. brightness(cd/m²)	400		Cool : 11000
Display color	Supporting 16.7 M	Max. V. Frequency(Hz)	TV: 60Hz / PC: 85Hz
	☐ 1920×1080i ☐ 1920×1152i	Max. H. Frequency(Hz)	TV:15.7kHz / PC: 69kHz
Supporting Pic. Format	☐ 1440×1080i ☒ 1280×720p		
	☐ 1280×720i ☒ 720×480p		

Color system(AV)

☒ PAL	☐ PAL - M	☒ NTSC 3,58	☒ SECAM
☐ PAL - N	☒ NTSC 4,43	Comb-Filter: ☒ NTSC	☒ PAL

PC Signal

☒ VGA	☒ SVGA	☒ XGA	☐ WXGA
☒ SXGA	☐ True XGA		

Antenna Receiving

☒ PAL - D/K	☒ PAL - I	☐ NTSC-M
☒ PAL - BG	☐ PAL - N	☐ NTSC4.43
☐ PAL - M	☒ SECAM -D/K I BG	☒ SECAM-L

Special Features

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- | | | | |
|--|--|---|---|
| ☐ 100 Hz Progressive Scan | ☒ Black and White Mode | ☒ Smart Picture | ☐ DLTl |
| ☒ 50/60 Hz Progressive Scan | ☒ Child Lock | ☐ MADA | ☒ DCTl |
| ☐ Black Stretch | ☒ PIP (PC、DVI Mode) | ☐ Picture Dynamic Reduce Noise | ☒ Timer Off |
| ☒ Color Temperature Adjustment | | | |

Stereo

- | | | | |
|---|------------------------------|--------------------------------|---|
| ☒ Nicam | ☐ MTS | ☐ FM-FM | ☒ German Stereo |
| ☐ BTSC | | | |

Program

- | | | |
|--|--|--|
| ☐ Program Auto Mark | ☒ Program Compositor | ☒ Channels: 99 |
| ☒ Auto Searching | ☐ Manual Searching | ☒ Tuning |

Teletext

Type: Pages:

Audio

- | | | | |
|--|--|--|---|
| ☒ Internal SPK. | ☒ Internal Amplifier | ☒ Sound Effect | ☒ AVC |
| ☒ Output Power(W) : 2×2.8W | | ☒ DVSS | ☐ Balance (Steps : 5) |
| ☒ Sound Effect Adjustment : ☐ Bass ☐ Treble ☒ Balance ☐ Others : Five Bands Equalizer | | | |

Display

OSD(14 languages) English, French, German, Italian, Russian, Danish, Finnish, Czech, Greece, Portuguese, Spanish, Turkish, Croatia, Dutch

Adjustment via OSD

- | | | | |
|--|--|--|---|
| ☒ Contrast | ☒ Chroma | ☒ H/V - size (PC) | ☐ Picture Rotation |
| ☒ Brightness | ☒ Tint | ☒ H/V - place (PC) | |

Power Supply

- | | | | |
|-----------------------------------|-----|---|---|
| Max. Power Consumption(W) : | 45 | Voltage (V/Hz) : | 110/220V 50/60 Hz |
| Standby Power Consumption (W) : | 1.5 | ☒ Switch on/off | ☒ Auto stand-by (Timer : Min) |

Accessories

- | | | | |
|---|---|--|--|
| ☒ Remote Controller | ☒ Stand | ☒ RF coaxial cable | ☐ Scart Line (m) |
| ☐ Set Top Box | ☒ Mounting Bracket (Optional) | ☒ Power Supply Line (1.8 m) | ☐ Antenna (1.8 m) |
| ☐ Speakers | | ☐ VGA line (Type : DB15) | |

Connector

Screen	☐ Antenna Input		☐ BNC	IEC	☐ Others :
	Video Terminal				
	■ VGA Input (Type : D-15 Pins Quantity : 1)		☐ VGA Output (Type : Quantity :)		
	■ DVI Input Type : DVI-I 29Pins Quantity : 1)				
	☐ YUV Input (With Audio) (☐ RCA ☐ BNC Quantity : 1)				
	☐ Y, Cr, Cb Input (☐ RCA ☐ BNC Quantity : 1, Remarks : Input via Y in YUV)				
	☐ S-Video Input Quantity : () ☐ S-Video Output (Quantity :)				
	■ SCART (■ Full SCART ■ Video Input ☐ YUV Input ■ S-Video ☐ RGB ■ Video Output)				
	☐ Others Video or (AV) Output or Input :				
	Audio Connector				
☐ Audio Input (☐ RCA ☐ Others : Φ 3.5)		☐ Audio Output 5.1			
■ Audio Output L/R (☐ RCA ■ Others :		☐ Bass Output (Audio Jack)			
☐ Audio (RCA)		☐ Audio digital optical	☐ Speaker Output		

Packing

Unit Size(w × h × d, mm)	448×230×385mm	Net Weight(kg)	5.5kg
Packing Size(w × h × d, mm)	537×287×476mm	Gross Weight(kg)	8kg

3. BOM LIST

Item No.	Description	Quantity	Designator	Remarks
08-L2026S-ANY	ASS'Y - ANALOG BD	1		
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D5501	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D7	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D5503	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D5504	
09-RLZ5B1-DTX	SMD. ZENER DIODE RLZ5.1B	1	D1	
09-RLZ5B1-DTX	SMD. ZENER DIODE RLZ5.1B	1	D11	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q10	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q12	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q2	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q3	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q4	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q8	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q701	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q702	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q703	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q704	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q705	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q711	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q5511	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q5513	
12-BC847C-0BX	SMD. TRANSISTOR BC847C	1	Q5515	
12-BC857C-0BX	SMD. TRANSISTOR BC857C	1	Q5	
12-BC857C-0BX	SMD. TRANSISTOR BC857C	1	Q7	
12-BC857C-0BX	SMD. TRANSISTOR BC857C	1	Q9	
13-K6T400-70B	3.3V 4M CMOS SRAM K6T4008V1C-GB70	1	IC703	
13-M24C32-MNB	IC M24C32-WMN6(S08)	1	IC704	
13-M29W40-0NB	IC M29W400BB/DB(TSOP48-TS)	1	IC702	
13-MSP341-1AB	IC MSP3411G(PLQFP64)	1	IC5502	
13-TEA641-5CB	IC TEA6415CD (S020)	1	IC5501	
13-VCT383-4AB	IC VCT3834A	1	IC701	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R11	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R53A	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R54	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5539	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R751	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	C5570A	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5571A	

Item No.	Description	Quantity	Designator	Remarks
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R10	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R22	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R19	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R27	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R34	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5514	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5516	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5531	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5532	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5577	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R5578	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R735	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R792	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R793	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R794	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R795	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R1001	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R20	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R28	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R35	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R39	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R5552	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R62	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R69	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R7	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R1002	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R1003	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R43	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5522A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5523A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5526A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5527A	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5551	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R5561	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R57	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R701	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R702	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R714	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R715	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R725	

Item No.	Description	Quantity	Designator	Remarks
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R749	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R762	
19-BB0122-JTX	SMD. RES 1.2k OHM 1/10W +/-5%	1	R750	
19-BB0152-JTX	SMD. RES 1.5k OHM 1/10W +/-5%	1	R5839	
19-BB0181-FTX	SMD. RES 180 OHM 1/8W +/-1% 0805	1	R16	
19-BB0181-FTX	SMD. RES 180 OHM 1/8W +/-1% 0805	1	R24	
19-BB0181-FTX	SMD. RES 180 OHM 1/8W +/-1% 0805	1	R31	
19-BB0183-JTX	SMD. RES 18k OHM 1/10W +/-5%	1	R12	
19-BB0183-JTX	SMD. RES 18k OHM 1/10W +/-5%	1	R42	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R1004	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R1005	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5522	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5523	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5550	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5560	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R5838	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R17	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R25	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R32	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R703	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R717	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R737	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R744	
19-BB0241-JTX	RES. SMD 240 OHM 1/10W +/-5%	1	R70	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5515	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5517	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5526	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R5527	
19-BB0271-JTX	SMD. RES 270 OHM 1/10W +/-5%	1	R9	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R63	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R64	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R65	
19-BB0333-JTX	SMD. RES 33k OHM 1/10W +/-5%	1	R706	
19-BB0361-FTX	SMD. RES 360 OHM 1/8W +/-1% 0805	1	R18	
19-BB0361-FTX	SMD. RES 360 OHM 1/8W +/-1% 0805	1	R26	
19-BB0361-FTX	SMD. RES 360 OHM 1/8W +/-1% 0805	1	R33	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R44	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R6	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R66	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R726	

Item No.	Description	Quantity	Designator	Remarks
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R727	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R730	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R733	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R763	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R764A	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R705	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R728	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R729	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R731	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R732	
19-BB0562-JTX	SMD. RES 5.6k OHM 1/10W +/-5%	1	R13	
19-BB0562-JTX	SMD. RES 5.6k OHM 1/10W +/-5%	1	R8	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R37	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R38	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R739	
19-BB0683-JTX	SMD. RES 68k OHM 1/10W +/-5%	1	R718	
19-BB0683-JTX	SMD. RES 68k OHM 1/10W +/-5%	1	R738	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R21	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R29	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R36	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5533	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5540	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5554	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5562	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5563	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5570	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5571	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5572	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5573	
19-BB0820-FTX	SMD. RES 82 OHM 1/10W +/-1% 0805	1	R15	
19-BB0820-FTX	SMD. RES 82 OHM 1/10W +/-1% 0805	1	R23	
19-BB0820-FTX	SMD. RES 82 OHM 1/10W +/-1% 0805	1	R30	
19-CC0000-JTX	CHIP RESISTOR	1	BR702	
19-CC0000-JTX	CHIP RESISTOR	1	BR711	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP1	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP2	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP3	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP4	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP5	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP6	

Item No.	Description	Quantity	Designator	Remarks
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP7	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP8	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C5523	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C5524	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C5579	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C714	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C750	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C753	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C756	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C762	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C765	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C774	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C5520	
25-BFB109-M1X	CAP. ELEC 1 UF 50V +/-20%	1	C716	
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	C5514	
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	C5516	
25-BFB339-M1X	CAP. ELEC 3.3 UF 50V +/-20%	1	C5526	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5501	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5525	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5550	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C5553	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C701	
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C710	
25-HCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C759	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C3	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5570	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C5574	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C6	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C5504	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C5505	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C704	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C720	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C731	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C732	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C2	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5502	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5527	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5551	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5554	

Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5578	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C702	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C703	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C713	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C746	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C747	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C751	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C754	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C757	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C760	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C763	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C766	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C769	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C772	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C775	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5846	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C5847	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5536	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5538	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5544	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C5546	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C712	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C752	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C755	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C758	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C761	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C764	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C767	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C770	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C773	
28-BB0222-KBX	SMD. CAP 2200PF 50V +/-10%	1	C776	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5533	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5842	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5844	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5843	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C5573	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5535	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5537	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5543	
28-BB0334-ZFX	SMD. CAP 0.33UF 50V +80%/-20%	1	C5545	

Item No.	Description	Quantity	Designator	Remarks
28-BB0339-JCX	SMD. CAP 3.3 pF 50V +/-5%	1	C5557	
28-BB0339-JCX	SMD. CAP 3.3 pF 50V +/-5%	1	C5558	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C1	
28-BB0473-ZFX	SMD. CAP 0.047UF 50V +80%-20%	1	C711	
28-BB0560-JCX	SMD. CAP 56PF 50V +/-5%	1	C5556	
28-BB0560-JCX	SMD. CAP 56PF 50V +/-5%	1	C5560	
28-BB0560-JCX	SMD. CAP 56PF 50V +/-5%	1	C5561	
28-BB0683-ZFX	SMD. CAP 0.068UF 50V +80%-20%	1	C740	
28-BB0683-ZFX	SMD. CAP 0.068UF 50V +80%-20%	1	C741	
28-CD0684-KBX	SMD.CAP 0.68UF 25V +/-10%	1	C722	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C788	
28-XC0226-MTX	SMD. CAP 22 UF 16V +/-20%	1	C742	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C745	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C768	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C771	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5501	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5504	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5502	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L702	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L1	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L5831	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5570	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5571	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5572	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5573	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5574	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5575	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5576	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5577	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5578	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5579	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L5580	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z710	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z711	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z712	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z713	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z714	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z716	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z715	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z717	

Item No.	Description	Quantity	Designator	Remarks
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z718	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z5501	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z719	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	Z720	
45-OSC18M-4Y2	CRYSTAL 18.432MHZ (CL=12pF)	1	Z5502	
45-OSC20M-2Y0	CRYSTAL 20.25MHZ	1	Z202	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P1002	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P5802	
46-35199W-08X	CONN.PH-8A 8PIN PITCH=2.0MM	1	P1001	
47-SCA001-XX0	SCART SOCKET 21 PINS SS101-P	1	X5510	
47-340971-50X	VGA SOCKET	1	S601	
40-LD1526-SAD	P.C.B. SIMULATE BD	1		
46-39375H-10X	HS 10P 2468#26 150MM PH-10Y*2	1		数字板P14到模拟板P5540
46-39371H-05X01	HS 5P 2468#26 180MM	1		模拟板P5802到电源板F401
46-35199W-10X	CONN. PH-10 10PIN PITCH=2.0mm	1	P5540	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q11	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R58	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R53	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R61	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C12	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C13	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C14	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C15	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C16	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C17	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C18	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C7	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C8	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C9	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C10	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5842	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q6	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R5840	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C789	
46-39378H-09X	HS 9P 2468#26 200MM PH-9Y/SAN-9Y	1		模拟板P5803到电源板F403
28-BB0221-JCX	SMD. CAP 220 PF 50V +/-5%	1	C5518	
46-35199W-08X	CONN.PH-8A 8PIN PITCH=2.0MM	1	S5504	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P1003	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5541	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R5528	

Item No.	Description	Quantity	Designator	Remarks
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C5552	
28-BB0160-JCX	SMD. CAP 16 PF 50V +/-5%	1	C748	
28-BB0160-JCX	SMD. CAP 16 PF 50V +/-5%	1	C749	
25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1	C5503	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1		二极管阴极接C742的负极，阳极接地
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1		二极管阳极接C5503的正极，阴极接R5840的另一脚
41-BF0080-3BB	WIRE UL 1007 #24 80MM ORG	1		模拟板S5504第4脚接P1003第3脚
41-BF0080-3BB	WIRE UL 1007 #24 80MM ORG	1		模拟板S5504第5脚接P1003第2脚
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C4	
19-BB0681-JTX	SMD. RES 680 OHM 1/10W +/-5%	1	R5547	
19-BB0681-JTX	SMD. RES 680 OHM 1/10W +/-5%	1	R5548	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R5568	
25-HCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1	C5584	
19-BB0823-JTX	SMD. RES 82k OHM 1/10W +/-5%	1	R5567	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R5566	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R60	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C733	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C734	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C735	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R5575	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R5576	
28-XC0475-MTX	TANTALUM CAP. 4.7 UF 16V +/-20% B	1	C5571	
08-L2026S-PWY	ASS'Y - POWER BD	1		
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D3	
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	D2	
10-1N4002-EBX	DIODE 1N4002 (RECTIFIER)	1	D801	
10-1N4002-EBX	DIODE 1N4002 (RECTIFIER)	1	D803	
10-1N4002-EBX	DIODE 1N4002 (RECTIFIER)	1	D804	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q402	
13-PQ09RD-11S	IC PQ09RD11 (9V LL REGULATOR)	1	IC801	
13-L7805C-VAP	IC L7805CV 1.5A (REGULATOR)	1	IC802	
13-LD1117-33B	IC LD1117 3.3V	1	IC804	
13-LD1117-33B	IC LD1117 3.3V	1	IC803	
13-TPA151-7NP	IC TPA1517NE	1	U401	
18-EF0109-JGX	RES. FUS. 1 OHM 1W +/-5% (LS)	1	R811	
19-BB0202-JTX	SMD. RES 2k OHM 1/10W +/-5% 0805	1	R401	
25-BBB101-M1X	CAP. ELEC 100UF 10V +/-20%	1	C811	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C403	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C404	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C802	

Item No.	Description	Quantity	Designator	Remarks
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C806	
25-BCB221-M1X	CAP. ELEC 220 UF 16V +/-20%	1	C808	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C816	
25-BCB470-M1X	CAP. ELEC 47 UF 16V +/-20%	1	C821	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C801	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C818	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C803	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C805	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C807	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C810	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C819	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C820	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C812	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C817	
28-DC0476-MTX	TANTALUM CAP. 47UF 16VDC +/-20% 7343	1	C804	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	F401	
46-35199W-09X	CONN.PH-9A 9PIN PITCH=2.0MM	1	F403	
67-H36880-0A9	HEAT SINK	2		FOR IC801, FOR IC802
46-33333W-02X	CONN.VH-2A 90 ANGLE PITCH=3.96	1	P1004	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D6	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D7	
12-BC857A-0BX	SMD TRANSISTOR BC857A (PNP)	1	Q1	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R6	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C809	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C814	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C3	
25-BCB471-M1X	CAP. ELEC 470 UF 16V +/-20%	1	C4	
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	C6	
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	C7	
18-EF0478-JGX	RES. FUS. 0.47 OHM 1W +/-5%	1	R811A	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C813	
25-BCB109-M1X	CAP. ELEC 1 UF 16V +/-20%	1	C401	
25-BCB109-M1X	CAP. ELEC 1 UF 16V +/-20%	1	C402	
64-B30120-103	M/C SCREW B 3 X 12	1		FOR IC802
64-B30140-103	M/C SCREW B 3 X 24	1		FOR IC801
40-LD1526-PWE	P.C.B. POWER PCB BD	1		
65-Z30050-23M	NUT M 3	2		FOR IC801, IC802
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	D807	
67-387190-2A0	HEAT SINK	1		FOR U401
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	D802	

Item No.	Description	Quantity	Designator	Remarks
25-BFB229-M1X	CAP. ELEC 2.2 UF 50V +/-20%	1	C405	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R4	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R1	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R7	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D1	
25-BCB101-M1X	CAP. ELEC 100 UF 16V +/-20%	1	C5	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R2	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R3	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C1	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C2	
18-FF0470-JGX	RES. M.O. 47 OHM 1W +/-5%	1	R809	
46-33079W-04X	PIN BASE *4 TJC3-4A	1	F3	
36-LIF020-XX0	LINE FILTER LC-33-TCL	1	L810	
08-L2026S-DIY	ASS'Y - DIGITAL BD	1		
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D1	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D10	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D11	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D12	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D2	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D3	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D4	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D9	
10-1N5820-F0X	DIODE 1N5820	1	D5	
12-BC847A-0BX	SMD TRANSISTOR BC847A (NPN)	1	Q8	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q3	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q4	
13-00M24C-04P	IC 4K EEPROM M24C04-BN6	1	U29	
13-024LC1-6BB	IC 24LC16B	1	U22	
13-024LC2-1AP	IC 24LC21A	1	U8	
13-0AD988-3AB	IC AD9883	1	U3	
13-0DS181-9CB	IC DS1819CR5	1	U27	
13-0LM259-6SB	IC LM2596(TO-263)	1	U25	
13-74LV37-3AB	IC LV373A	1	U21	
13-AIC111-7MB	IC AIC1117MPX-2.5	1	U9	
13-BGA388-00B	IC BGA388	1	U11	
13-FLI220-00B	IC FLI2200	1	U6	
13-IC1084-CMB	IC AIC1084-33CM 3.3V (TO-263)	1	U5	
13-K4S643-23B	IC K4S643232C-TC60	1	U12	
13-K4S643-23B	IC K4S643232C-TC60	1	U13	
13-K4S643-23B	IC K4S643232C-TC60	1	U7	

Item No.	Description	Quantity	Designator	Remarks
13-LD1117-33B	IC LD1117 3.3V	1	U1	
13-RT9172-N25	IC RT9172N-25CM5	1	U26	
13-SI9953-DYB	IC SI9953DY(8-PIN)	1	U14	
13-SN74AH-C1B	IC SN74AHC139	1	U20	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	0R13	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	0R8	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R12	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R167	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R181	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R201	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R209	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R210	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R211	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R215	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R219	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R30	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R34	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R38	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R5	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R58	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R59	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R54	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R55	
19-BB0100-JTX	RES. SMD 10 OHM 1/10W +/-5%	1	R57	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	0R2	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	0R3	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	0R4	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R102	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R208	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R23	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R44	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R45	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R46	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R47	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R13	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R195	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R196	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R206	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R48	
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R49	

Item No.	Description	Quantity	Designator	Remarks
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	0R11	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R10	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R107	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R18	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R19	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R20	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R21	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R22	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R3	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R50	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R51	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R52	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R6	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R61	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R62	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R63	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R9	
19-BB0121-JTX	SMD. RES 120 OHM 1/10W +/-5%	1	R7	
19-BB0121-JTX	SMD. RES 120 OHM 1/10W +/-5%	1	R11	
19-BB0121-JTX	SMD. RES 120 OHM 1/10W +/-5%	1	R8	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R15	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R165	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R53	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R60	
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R87	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R11-1	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R191	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R192	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R193	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R194	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R25	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R26	
19-BB0332-JTX	SMD. RES 3.3k OHM 1/10W +/-5%	1	R2	
19-BB0391-JTX	RES. SMD 390 OHM 1/10W +/-5%	1	R174	
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	R212	
19-BB0470-JTX	SMD. RES 47 OHM 1/10W +/-5%	1	R56	
19-BB0471-JTX	SMD. RES 470 OHM 1/10W +/-5%	1	R199	
19-BB0471-JTX	SMD. RES 470 OHM 1/10W +/-5%	1	R200	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R14	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R169	

Item No.	Description	Quantity	Designator	Remarks
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R171	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R172	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R173	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R177	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R179	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R190	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R198	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R218	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R24	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R4	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R72	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R73	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R75	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R79	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R93	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R94	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R103	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R80	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R78	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R225	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R28	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R29	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R32	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R33	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R36	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R37	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP28	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP1	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP10	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP11	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP12	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP13	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP14	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP15	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP2	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP29	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP3	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP30	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP31	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP32	

Item No.	Description	Quantity	Designator	Remarks
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP33	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP34	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP35	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP36	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP37	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP38	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP4	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP5	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP6	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP7	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP8	
23-A08220-JBX	NETWORK RES. 22 OHM +/-5%	1	RP9	
25-BDA471-M1X	CAP. ELEC 470 UF 25V +/-20%	1	C200	
25-BDB221-M1X	CAP. ELEC 220 UF 25V +/-20%	1	C201	
28-BB0100-JCX	SMD. CAP 10 PF 50V +/-5%	1	C454	
28-BB0100-JCX	SMD. CAP 10 PF 50V +/-5%	1	C94	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C425	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C426	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C427	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C428	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C430	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C85	
28-BB0101-JCX	SMD CAP. 100 PF 50V C 0805	1	C86	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C10	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C102	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C103	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C105	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C117	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C12	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C14	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C16	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C18	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C89	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C96	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C436	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C437	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C438	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C439	
28-BB0103-KBX	SMD. CAP 10nF 50V +/-10% 0805	1	C440	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C237	

Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C100	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C101	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C107	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C108	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C11	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C111	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C113	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C115	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C118	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C119	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C120	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C122	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C123	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C124	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C125	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C126	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C127	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C128	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C129	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C13	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C130	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C131	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C132	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C133	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C134	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C135	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C136	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C137	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C138	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C139	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C140	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C141	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C142	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C143	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C146	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C147	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C148	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C149	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C15	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C150	

Item No.	Description	Quantity	Designator	Remarks
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C151	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C152	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C153	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C154	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C155	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C156	
28-AB0103-KBX	SMD. CAP 0.01 UF 50V +/-10% 0603	1	C157	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C158	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C159	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C160	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C161	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C162	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C163	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C164	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C165	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C166	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C167	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C168	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C169	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C17	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C171	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C172	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C173	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C19	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C202	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C204	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C209	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C211	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C212	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C213	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C214	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C215	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C216	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C224	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C26	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C27	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C28	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C29	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C3	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C30	

Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C31	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C32	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C33	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C34	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C39	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C40	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C404	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C422	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C423	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C431	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C432	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C433	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C435	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C449	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C45	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C450	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C451	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C452	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C453	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C46	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C469	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C47	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C48	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C49	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C50	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C51	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C52	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C53	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C54	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C55	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C56	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C57	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C59	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C60	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C61	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C62	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C63	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C64	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C65	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C66	

Item No.	Description	Quantity	Designator	Remarks
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C67	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C68	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C69	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C70	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C71	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C72	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C73	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C74	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C8	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C87	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C9	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C98	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C99	
28-BB0229-BCX	SMD. CAP 2.2 pF 50V +/-0.1pF (0805)	1	C76	
28-BB0229-BCX	SMD. CAP 2.2 pF 50V +/-0.1pF (0805)	1	C78	
28-BB0229-BCX	SMD. CAP 2.2 pF 50V +/-0.1pF (0805)	1	C80	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C93	
28-BB0392-KBX	SMD. CAP 3.9NF 50V +/-10%	1	C6	
28-BB0153-KBX	SMD. CAP 15NF 50V +/-10% 0805	1	C5	
28-BB0470-JCX	SMD. CAP 47 PF 50V +/-5%	1	C35	
28-BB0470-JCX	SMD. CAP 47 PF 50V +/-5%	1	C7	
28-BB0473-KBX	CAP.SMD	1	C20	
28-BB0473-KBX	CAP.SMD	1	C22	
28-BB0473-KBX	CAP.SMD	1	C24	
28-BB0479-JCX	SMD. CAP 4.7PF 50V +/-5%	1	C21	
28-BB0479-JCX	SMD. CAP 4.7PF 50V +/-5%	1	C23	
28-BB0479-JCX	SMD. CAP 4.7PF 50V +/-5%	1	C25	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C175	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C92	
28-CC0106-MTX	TANTALUM CAP. 10 UF 16V +/-20% 6032	1	C448	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C1	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C144	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C145	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C206	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C207	
28-CC0226-MTX	TANTALUM CAP. 22 UF 16VDC +/-20% 6032	1	C208	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C205	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C41	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C43	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C44	

Item No.	Description	Quantity	Designator	Remarks
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C468	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C58	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C203	
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C467	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C170	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C226	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C227	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C447	
28-DE0106-MTX	SMD.CAP 35V 10UF +/-20%	1	C473	
33-ELL339-KTX	SMD. COIL 3.3 UH +/-10% 0805	1	L2	
33-ELL339-KTX	SMD. COIL 3.3 UH +/-10% 0805	1	L3	
33-ELL339-KTX	SMD. COIL 3.3 UH +/-10% 0805	1	L4	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB11	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB12	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB13	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB14	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB15	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB16	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB17	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB18	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB19	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB2	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB20	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB21	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB22	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB23	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB25	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB26	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB3	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB32	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB35	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB40	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB41	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB50	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB51	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB52	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB53	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB54	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB55	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB56	

Item No.	Description	Quantity	Designator	Remarks
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB57	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB58	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB59	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB62	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB63	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB64	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB65	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB66	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB67	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB68	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB69	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB7	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB70	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB71	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB72	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB73	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB74	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB75	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB76	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB77	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB78	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	FB79	
33-GLN121-NTX	CHIP BEAD 120 OHM +/-25%	1	FB8	
33-ELN201-NTX	CHIP BEAD 200 OHM +/-25%	1	R1	
36-LIF020-XX0	LINE FILTER LC-33-TCL	1	L1	
45-OSC14M-3N0	CRYSTAL 14.318MHZ	1	U10	
46-35199W-02X	CONN.PH-2A 2PIN PITCH=2.0MM	1	J1	
46-35199W-04X	CONN.PH-4A 4PIN PITCH=2.0MM	1	P25	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P8	
46-35199W-05X	CONN.PH-5A 5PIN PITCH=2.0MM	1	P2	
46-35199W-10X	CONN. PH-10 10PIN PITCH=2.0mm	1	P14	
46-33333W-02X	CONN.VH-2A 90 ANGLE PITCH=3.96	1	P24	
47-DVI001-KX0	DVI SOCKET KL-DIV024-04A	1	P10	
47-ICS007-XX0	IC SOCKET PLCC-SMT-44P	1		FOR U19
47-ICS009-XX0	IC SOCKET 8P	1		FOR U29
47-ICS009-XX0	IC SOCKET 8P	1	FOR U8	
47-SCA001-XX0	SCART SOCKET 21 PINS SS101-P	1	P17	
47-VGA004-XX0	VGA SOCKET D-SUB-15S(BLACK)	1	P11	
48-TAC001-XX0	TACT SWITCH	1	SW1	
13-LD1117-33B	IC LD1117 3.3V	1	U15_1	

Item No.	Description	Quantity	Designator	Remarks
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R77	
50-03000B-NUU	FUSE R251003-3A	1	F2	
43-SFSS11-2DM	RELAY SF-SS-112DM	1	FELA1	
45-OSC14M-3Y2	CRYSTAL 14.31818MHZ	1	Y2	
13-P87C52-X2B	IC P87C52X2BA	1	U19	
40-3026WS-DIB	P.C.B. DIGITAL BD	1		
09-BAV70L-ATX	SMD. DIODE BAV70LT1(S0T-23)	1	D6	
09-BAV70L-ATX	SMD. DIODE BAV70LT1(S0T-23)	1	D7	
09-BAV70L-ATX	SMD. DIODE BAV70LT1(S0T-23)	1	D8	
28-BD0224-SGX	CHIP CAP. 0.22UF 25V +50/-20%	1	CX1	
28-BD0224-SGX	CHIP CAP. 0.22UF 25V +50/-20%	1	CX3	
28-BD0224-SGX	CHIP CAP. 0.22UF 25V +50/-20%	1	CX5	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R98	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R99	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R100	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C109	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C110	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C112	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C121	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C15-2	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C225	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C42	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C474	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C75	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C77	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C79	
46-39371H-05X	HS 5P 2468#26 60MM PH-5Y*2	1		数字板P2到模板P1002
46-39373H-08X	HS 9P 1185#26 120MM PH-8Y/JC20-8Y	1		数字板P1到模板P1001
67-387190-0A0	HEAT SINK	1		FOR U11
67-387190-0A0	HEAT SINK	1		FOR U6
67-387190-1A0	HEAT SINK	1		FOR U12
67-387190-1A0	HEAT SINK	1		FOR U13
67-387190-1A0	HEAT SINK	1		FOR U7
67-387200-1A0	HEAT SINK	1		FOR U3
46-39398H-41X	HS 41PIN	1		液晶屏与数字板连接线
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R12-3	
46-38614W-41X	PIN BASE DF9B-41P-1V	1	P4	
47-PWS012-XX0	SOCKET DSW-47	1	P22	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q6	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80-20%	1	C477	

Item No.	Description	Quantity	Designator	Remarks
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C482	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C483	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C486	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C488	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C490	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C492	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C493	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C496	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C498	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C499	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C504	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C505	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C478	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C481	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C484	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C485	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C487	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C489	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C491	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C494	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C495	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C497	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C500	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C503	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C506	
33-GLN190-NTX	CHIP BEAD 19 OHM +/-25% (3216)	1	FB82	
33-GLN190-NTX	CHIP BEAD 19 OHM +/-25% (3216)	1	FB83	
12-BC847B-0BX	NPN SMD. TRANSISTOR BC847B (SOT-23)	1	Q11	
19-BB0472-JTX	SMD. RES 4.7k OHM 1/10W +/-5%	1	R230	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R237	
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R234	
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	R241	
12-C144ET-0BX	SMD. TRANSISTOR PDTC144ET	1	Q9	
18-CB0103-JNX	RES. C.F. 10K OHM 1/6W +/-5%	1		RELA2的2脚到4脚间
11-2SJ449-0AX	TRANSISTOR 2SJ449	1	Q10	
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R14_1	
46-39396H-06X	HS 2P 1007#26 800MM PH-7Y/PH-6Y	1		数字板P7到背光板CN1
19-BB0220-JTX	SMD. RES 22 OHM 1/10W +/-5%	1	R197	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP17	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP19	

Item No.	Description	Quantity	Designator	Remarks
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP21	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP23	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP25	
23-A08101-JBX	NETWORK RES. 100 OHM +/-5%	1	RP27	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C114	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C116	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C104	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C91	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C434	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C2	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C4	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C38	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C429	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C424	
28-XC0106-MTX	TANTALUM CAP.10 UF 16V +/-20%	1	C90	
28-BB0120-JCX	SMD. CAP 12 pF 50VDC +/-5%	1	C198	
28-BB0120-JCX	SMD. CAP 12 pF 50VDC +/-5%	1	C199	
46-39459H-02X	HS 2P 1015#22 180MM VN-2Y/VH-2Y	1		电源板P1004到数字板P24
47-ICS003-XX0	IC JACK	1	FOR U2	FOR U23
19-BB0102-JTX	SMD. RES 1k OHM 1/10W +/-5%	1	R205	
19-BB0103-JTX	SMD. RES 10k OHM 1/10W +/-5%	1	R207	
13-SST39V-7CB	FLASH SST39VF020-70-4C-WH(32-PIN TSOP)	1	U31	
46-39371H-05X	HS 5P 2468#26 60MM PH-5Y*2	1		数字板P8到模拟板P1003
46-FF015F-02B01	HS 2P 1007#26 150MM PH-2Y/PH-2Y	1		前控板P2到数字板J1
46-FF060T-04L	HS 4P 2547#24 600MM PH-4Y/PH-4Y	1		数字板P25到遥控板P1连接线
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R228	
66-702620-0E2	SCREW POST	2		FOR P10
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R227	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R239	
25-BCB220-M1X	CAP. ELEC 22 UF 16V +/-20%	1		电容正极接Q9 B极，负极接地
13-SII161-00B	IC SII161BCT100	1	U28	
28-BD0105-ZFX	SMD CAP 1UF 25V +80-20%	1	C106	
08-L2026S-FCN	ASS'Y - FRONT CABINET	1		
56-707460-0HC1A	LENS	1		
56-707600-0HA1A	POWER KNOB	1		
63-W30080-AB4	S/T SCREW W 3 X 8 AB	8		MTG SPEAKER & FRONT CABINET
63-W30100-AB4	S/T SCREW W 3 X 10 AB	3		MTG FRONT CTL BD & FRONT CABINET
63-W30100-AB4	S/T SCREW W 3 X 10 AB	3		MTG RECEIVE BD & FRONT CABINET
63-W30100-AB4	S/T SCREW W 3 X 10 AB	13		MTG IRON BRACKET & FRONT CABINET
64-B30080-104	M/C SCREW B 3 X 8	4		MTG LCD PANEL & IRON BRACKET

Item No.	Description	Quantity	Designator	Remarks
64-B30080-104	M/C SCREW B 3 X 8	7		MTG ANOLOG BD & IRON BRACKET
64-B30080-104	M/C SCREW B 3 X 8	4		MTG DIGITAL BD & IRON BRACKET
64-B30080-104	M/C SCREW B 3 X 8	3		MTG REAR PANEL & IRON BRACKET
64-B30080-104	M/C SCREW B 3 X 8	1		MTG TUNER CASE & IRON BRACKET
55-707760-0UA1B	FRONT CABINET	1		
67-M70781-0E0	BIG BRACKET	1		
67-S70782-0E0	SCREEN COVER (1)	1		
67-M70785-0E0	PRESS BOARD	1		
66-366850-7B0	SCREW POST	1		MTG ANOLOG BD & REAR CABINET
66-366850-7B0	SCREW POST	1		MTG DIGITAL BD & REAR CABINET
58-708510-1UI1A	INLAY FRONT AV	1		
81-BLI006-XX0	BOARD	1		
4A-LCD20T-LG1	LCD LC201V02	1		
42-04706D-XX0	SPEAKER 6 OHM 5W	2		
46-39369H-02X	2PINS 2468 #22 L=300MM	1		喇叭线
67-L40071-0A01A	LOGO	1		
64-B30080-104	M/C SCREW B 3 X 8	4		固定电源板到大支架
57-10654X-00F	cable ties(2.5mmX95mm)	4		
46-27580H-02X	HS 2P22 600/7 TJC3-2Y	1		喇叭线
89-710370-JZ0	TAPE	1.48		贴在显示屏和前壳间
89-382910-JZ0	EMI ALUMINUM FOIL	0.001		
08-L2026S-RCN		1		
63-B30100-AB3	S/T SCREW B 3 X 10 AB	1		MTG TUNER CASE & REAR CABINET
63-B30120-AB3	S/T SCREW B 3.0 X 12	4		MTG FRONT CABINET & REAR CABINET
63-W30080-AB4	S/T SCREW W 3 X 8 AB	3		MTG WALL BRACKET & REAR CABINET
63-W30080-AB4	S/T SCREW W 3 X 8 AB	4		MTG HIGE BRACKET & REAR CABINET
64-B30100-103	M/C SCREW B 3 X 10	2		MTG IRON BRACKET & REAR CABINET
64-B40080-102	M/C SCREW B 4 X 8	4		MTG HINGE & HINGE IRON BRACKET
67-M70786-0E0	AXES SUPPORT	1		
68-707870-000	TURNING AXES	1		
55-707770-0UA1A	REAR CABINET	1		
62-707780-0HA1A	REAR BRACKET (1)	1		
62-707790-0HA1A	TUNER PRESS TOP	1		
62-707800-0HA1A	HINGE PRESS TOP (1)	1		
62-707800-1HA1A	HINGE PRESS TOP (2)	1		
67-M70768-0E0	BRACKET	1		
64-B30100-103	M/C SCREW B 3 X 10	2		MTG 后壳 & 铜螺柱
54-710350-00X02	FELT TAPE	1		贴在后壳上、覆盖挂墙支架
54-710360-00X02	FELT TAPE	1		贴在后壳上、覆盖转轴支架
54-114000-00X01	FELT TAPE	19		贴在前、后壳间

Item No.	Description	Quantity	Designator	Remarks
58-2026MP-0UI1D	PLATE MODEL NO.	1		
08-L2026S-PAN	ASS'Y - PACKING PARTS	1		
76-708240-0BT	TUNER BOX PAPER	1		
76-708250-0BT	TUNER PAPER BOX	1		
75-708540-CC0	POLYFOAM "UR"	1		
75-708550-CC0	POLYFOAM "UL"	1		
75-708560-CC0	POLYFOAM "LR"	1		
75-708570-CC0	POLYFOAM "LL"	1		
72-LC2026-E001A	OPERATION MANUAL	1		
76-708520-0BT	CARTON BOX	1		
81-ADT126-670	ADAPTER	1		
74-080060-5WD	POLYBAG (80cmx60cmx0.5mm)	1		
06-090W37-A000X	ASSY - REMOTE HANDSET	1		
51-FC0180-0SU08	POWER CORD	1		
76-LC2026-2AT1A	CARTON BOX	1		
49-382380-BAT	BATTERY 7# (R03P AAA SUM-4)	2		
08-L2026S-BSY	ASS'Y - BASE PARTS	1		
59-707720-00X	RUBBER PAD	6		
64-B40120-102	MACHINE SCREW B 4X12	4		MTG HINGE SUPPORT & HINGE
58-708820-0UI1A	BASE LABEL	1		
67-M70859-0A0	AXES SUPPORT (1)	1		
67-707650-0A0	BASE (1)	1		
64-B40080-102	M/C SCREW B 4 X 8	4		MTG HINGE SUPPORT & BASE
08-L2026S-TUY	ASS'Y - TUNER BD	1		
09-0BA982-ATX	SMD.DIODE BA982-GS08	1	D610	
09-0BA982-ATX	SMD.DIODE BA982-GS08	1	D611	
09-0BA982-ATX	SMD.DIODE BA982-GS08	1	D612	
09-0BAV99-ATX	HIGH SPEED DOUBLE DIODE BAV99	1	D613	
09-55C33V-DTX	SMD.DIODE BZV55-C33	1	D614	
09-LL4148-ATX	SMD. SWITCHING DIODE LL4148	1	D601	
12-BC846B-0BX	TRANSISTORS BC846B (PNP)	1	Q612	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q610	
12-BC847C-0BX	SMD.TRANSISTOR BC847C	1	Q611	
13-TDA988-6TB	IC TDA9886T/V3	1	IC601	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R618	
19-BB0101-JTX	SMD. RES 100 OHM 1/10W +/-5%	1	R619	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R616	
19-BB0104-JTX	SMD. RES 100k OHM 1/10W +/-5% 0805	1	R630	
19-BB0123-JTX	SMD. RES 12k OHM 1/10W +/-5%	1	R601	
19-BB0123-JTX	SMD. RES 12k OHM 1/10W +/-5%	1	R615	

Item No.	Description	Quantity	Designator	Remarks
19-BB0221-JTX	SMD. RES 220 OHM 1/10W +/-5% 0805	1	R614	
19-BB0222-JTX	SMD. RES 2.2k OHM 1/10W +/-5%	1	R14	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R604	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R608	
19-BB0223-JTX	SMD. RES 22k OHM 1/10W +/-5%	1	R611	
19-BB0224-JTX	SMD. RES 220K 1/10W +/-5%	1	R610	
19-BB0331-JTX	SMD. RES 330 OHM 1/10W +/-5% 0805	1	R612	
19-BB0473-JTX	SMD. RES 47k OHM 1/10W +/-5% 0805	1	R631	
19-BB0510-JTX	RES.SMD 51 OHM 1/10W +/-5% 0805	1	R605	
19-BB0562-JTX	SMD. RES 5.6k OHM 1/10W +/-5%	1	R617	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R606	
19-BB0682-JTX	SMD. RES 6.8k OHM 1/10W +/-5%	1	R607	
19-BB0684-JTX	SMD. RES 680K OHM 1/10W +/-5%	1	R609	
19-BB0750-JTX	SMD. RES 75 OHM 1/10W +/-5%	1	R613	
28-BB0102-KBX	SMD CAP. 0.001UF 50V B 0805	1	C619	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C609	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C611	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C617	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C621	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C623	
28-BB0103-ZFX	SMD. CAP 10NF 50V +80%-20%	1	C635	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C603	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C604	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C622	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C633	
28-BB0104-ZFX	SMD CAP. 0.1 UF 50V +80/-20% 0805	1	C634	
28-BB0152-KBX	SMD. CAP 1500PF 50V +/-10%	1	C614	
28-BB0200-JCX	SMD. CAP 20 PF 50V +/-5%	1	C613	
28-BB0201-JCX	SMD. CAP 200 pF 50VDC +/-5% 0805	1	C631	
28-BB0224-ZFX	SMD. CAP 0.22UF 50V +80%/-20% 0805	1	C610	
28-BB0271-JCX	SMD. CAP 270 PF 50V +/-5%	1	C632	
28-BB0391-JCX	SMD. CAP 390 PF 50V +/-5%	1	C618	
28-BB0472-KBX	SMD. CAP 4700PF 50V +/-10%	1	C630	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C612	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C615	
28-BB0474-ZFX	SMD. CAP 0.47UF 50V +80%-20%	1	C620	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C601	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C602	
28-CC0476-MTX	TANTALUM CAP. 47 UF 16V +/-20% 6032	1	C637	
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L602	

Item No.	Description	Quantity	Designator	Remarks
33-DLL100-KTX	SMD. COIL 10 UH +/-10% 3225	1	L612	
33-ELL109-KTX	SMD.COLL MGF12012CIR0KT	1	L601	
33-ELN102-NTX	SMD.COLL CBG201209U 102B	1	L606	
34-R102K7-0EX	COIL 1000 UH +/-10%	1	L603	
34-R102K7-0EX	COIL 1000 UH +/-10%	1	L604	
40-LS3026-TUC	P.C.B. TUNER BD	1		
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J601	
41-WJ0100-B00	WIRE BARE JUMPER 10MM	1	J602	
45-OSC4M0-0N10A	CRYSTAL 4.0MHZ	1	Z601	
45-SAWK39-53D	S.A.W B39389-K3953-D100	1	Z610	
45-SAWK94-53D	S.A.W B39389-K9453-D100	1	Z611	
47-VGA013-XX0	VGA SOCKET KL-VGA15F-W	1	S602	
62-708200-0HN1A	TUNER BOX (UP)	1		
62-708210-0HN1A	TUNER BOX (LOWER)	1		
63-B30120-AB3	S/T SCREW B 3.0 X 12	2		MTG TUNER CASE (UP) & TUNER CASE (DOWN)
67-S70834-0E0	TUNER SCREEN COVER (UP)	1		
67-S70835-0E0	TUNER SCREEN COVER (LOWER)	1		
28-DC0107-MTX	TANTALUM CAP. 100 UF 16VDC +/-20%	1	C638	
08-L2026S-TCY		1		
07-389FI5-NX1	FS TUNER UV1316/S L G-3	1	U601	
40-LS3026-TCC	P.C.B. TUNER CHANGE BD	1		
19-BB0000-JTX	SMD. RES 0 OHM 1/10W +/-5%	1	R103	
08-L2026S-IRY	ASS'Y - RECEIVE BD	1		
25-HCB100-M1X	CAP. ELEC 10 UF 16V +/-20%	1	C1	
46-35135W-04X	PIN BASE PH-04AW	1	P1	
40-LS2026-IRA	P.C.B.IR RECEIVE BD	1		
18-CB0100-JNX	RES. C.F. 10 OHM 1/6W +/-5%	1	R12	
18-CB0102-JNX	RES. C.F. 1K OHM 1/6W +/-5%	1	R8	
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R10	
14-LED03R-XX0	LED RED HFR303J(R)(3mm)	1	D2	
11-IRR001-3X0	IR RECEIVER MODULE HK381A	1	IR01	
11-C144ES-0BX	TRANSISTOR PDTC144ES (NPN)	1	Q1	
08-L2026S-FBY	ASS'Y - FRONT CTL BD	1		
47-EAR002-XX0	EARPHONE SOCKET CK3-3.5-9WK-B	1	P3	
46-35135W-02X	PIN BASE PH-02AW	1	P2	
48-POW022-XX0	POWER SUPPLY SWITCH PS2E-B	1	SW7	
26-ABC222-KBX	CAP. CER 2200 PF 50V +/-10% B	1	C11	
26-ABC222-KBX	CAP. CER 2200 PF 50V +/-10% B	1	C12	
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	J11	
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	J12	

Item No.	Description	Quantity	Designator	Remarks
41-WJ0110-B00	WIRE BARE JUMPER 11MM	1	J14	
41-WJ0060-B00	WIRE BARE JUMPER 6mm	1	J13	
40-LS2026-KEB	P.C.B. KEY BD	1		
46-CC075T-04G	HS 2P 1185#26 750MM TJC3-4Y/TJC3-4Y	1		前控板P1到电源板F3
46-27626W-04X	PIN BASE *4 TJC3-4AW	1	P1	
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R11	
18-CB0331-JNX	RES. C.F. 330 OHM 1/6W +/-5%	1	R12	
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C13	
26-ABC103-ZFX	CAP. CER 0.01 UF 50V +80-20% F	1	C14	
46-27626W-02X	PIN BASE *2 TJC3-2A (HORIZON)	1	P4	
46-27626W-02X	PIN BASE *2 TJC3-2A (HORIZON)	1	P5	

4. Alignment Procedure

SUMMARIZATION:

The panel in this model is LG PHILIPS 20.1' LC201V02, max-luminance is at 450 cd/m². Analog parts adopt VCT3834A with Teletext function, inner multi-system Comb-filter, MCU and TCU for Teletext, extra 4M Flash EEPROM and 4M SRAM Teletext EEPROM. IF Amplifier adopts TDA9886T Multi-system PLL, MSP3411G for Nicam, and FS European Frequency which supports PAL DK BG I, SECAM BG/DK, SECAM L system. Digital parts adopts SAGE Project, Scaller chip which supports VGA/DVI input in main chassis part. TV input channel adopts AD9883A+FLi2200 to support A/D switches and Deinterlace Progressive processing. INVERTER comprises by +12V power suppliers and signal switching controller.

ALIGNMENT INSTRUCTION:

1. Adjustment of Analog Chassis Parts

In 20.1 inch LCD TV, Analog Chassis Parts are comprised of three main boards:

- A. Main-signal Processing Board, which is including Video, Audio, Code, and Teletext process of sub-signal, Board named: 40-LD1526-SA* (* =A. B. C. D.)
- B. IF Amplifier Board, named: 40-LS3026-TU* (* =A. B. C. D.)
- C. Power Board, named: 40-LD1526-PW* (* =A. B. C. D.)

I> Checking of IF Amplifier Board

Procedures :

- 1) Connecting IF Amplifier Board (without shield cover) to S601 in Analog Board via VGA ;
- 2) Switching on the Displayer, + 5V red light will be on in RC receiving board. Press "Standby" in RC, the red light will be off. Applying Factory Signal to see whether the sound, Nicam, and searching channel are OK ;
- 3) Pressing " i "key in RC to enter into User Menu, pressing pin " 6 " 4 " 0 " 5 "keys to Factory

Menu, and select AGC Menu. Setting switching mode to NORMAL, AGC to 14, pressing “EXIT” to exit ;

4) Switching off the Displayer. Taking out IF Amplifier, and soldering shield cover.

II> **Checking of Analog Main Board**

Procedures :

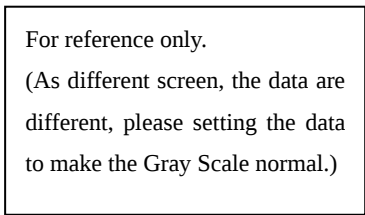
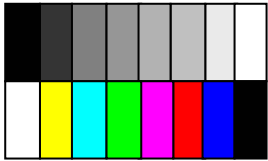
- 1) Inserting P1, P2, P14 in Digital Board to P1001, P1002 and P5540 in Analog Board, Inserting P25 in Digital Board to P1 in RC receiveing BOARD, Inserting P24 in Digital Board to P1004, Inserting F403 ,F401 in power board to P5803,P5802 in Analog Board, Inserting F3 in Power board to P1 in Front control board .
- 2) Connecting Computer to S5504 via COM connector, turning off the reset switch in the connector ;
- 3) A. Setting PC mode in Digital Board;
B. Switching on the unit with RC;
C. After Screen is on, running FLASH PROGRAM for 2 seconds in Computer Communication Program;
D. Turning on the reset switch in the connector, then carrying out the program to burn ;
- 4) After burned, please take out the S5504 connector ;
Switching off→Reset→power on with RC, pressing “0” key and “OK” key to enter TV mode, the Noise Signal will be displayed, press “ i ” in RC to enter into User Menu, and setting OSD to ENGLISH ;
- 5) Pressing “OK” to save and exit ;
- 6) Pressing “i” and “CH-” to enter into PROGRAM menu, pressing “CH-”to select “SEARCH >”, and pressing “VOL +” to searching channels. Press EXIT to exit when finished ;
- 7) Checking all channels to see whether the sound and picture are OK or not. Signal should be switched after applying SCART signal. Input and output function should be checked in SCART 1. There is not output function in SCART 2. (“ 0 ”key in RC to open menu, “V” key to OK)

2. Adjustment of Digital Board

Procedures :

- 1) A. Inserting P1 (8pins) in Digital Board to P1001 in Analog Board;
B. Connecting P14 in Digital Board to P5540 in Analog Board via 10Pins Line;
C. Connecting P24 in Digital Board to P1004 in Power Board via line;
D. Inserting INVERTER switch Plug to P7;
E. Connecting P2 in Digital Board to P1002 in Analog Main Board via line;
F. Connecting F403 in Power Board to P5803 in Analog Board
- 2) Inserting DC Plug in Extra Power Supplier to P22 in Digital Board, turning on the main power switch to electrify CPU (3.3V) in Digital Board;
- 3) A. Switching on the Unit using RC;
B. Electrifying Analog Board with 12V, (+5V) to IC JAGASM in Digital Board simultaneously;
C. After several seconds, sound and picture will be OK. (TV mode is default mode without SCART Signal)
- 4) Applying TV signal (Gray Scale and Color Bar Signal), pressing “0”, “6”, “4”, “0”, “5” in

RC, the AD9883 menu will be displayed, please setting the data as following:

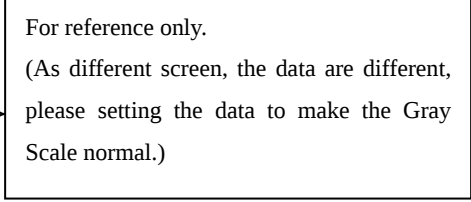
R	97		
G	98		
B	98		
BRIG	170		
CON	65		

Pressing " EXIT " to exit ,

Gray scale and color bar signal

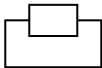
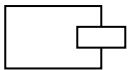
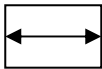
- 5) ⦿ Applying VGA signal, press " 0 " in RC to choose PC mode and pressing "OK" to confirm. Switching to VGA mode and selecting VGA to Gray 16 Scales.
- ⦿ Pressing "0", "6", "4", "0", "5" in RC to enter into Factory Mode, setting the data as below:

JAGASM of VGA:

R	93	
G	103	
B	98	
BRIG	180	
CON	65	

Pressing " EXIT " to exit ;

- ⦿ Pressing " i " in RC to enter into the User menu to setting the following items when applying VGA signal:

Language : English BRIGHT :  CONTRAST:  PHASE :   :   :   :  AUTO	Gray 16 Scales Brightness : 55%, Max-Dark Scale is Black Contrast : 75%, Max-Bright Scale isn't over loading A/D Phase : No adjusting ripple Vertical Center: (fluctuant Symmetry) Horizontal Center: (Right and Left Symmetry) Horizontal Breadth : Obtain the edge exactly with Cross signal
---	--

Pressing "OK" to save and " EXIT " to exit ;

* Note: Best Resolution : 640X480 60Hz mode.

6) DVI checking

Procedures :

- ⦿ Inserting DVI plug into P10 in Digital Board ;

- ② Pressing “ 0 ” in RC to enter into signal menu, pressing “CH+/CH-” to choose “DVI” and “OK” to enter into DVI mode ;
- ③ Applying the kinds of testing signal, whether they all can be identified and the output are normal in DVI signal sources ;
- ④ Entering into main signal menu and setting into the “TV” mode ;
- ⑤ Taking out DVI plug and shutting off AC power supply.

3. Adjustment of Complete LCD TV

Procedures :

I> Adjustment of AGC

- ② Power on the Unit and applying the TV signal sources.
TV signal sources setting as below :
f=48.25MHz
System: PAL B/G
Signal : Full color bar
Intension : 65dB ;
- ③ Pressing “ i ” key in RC to enter into User Menu, pressing pin “ 6 ” “ 4 ” “ 0 ” “ 5 ” keys to Factory Menu, pressing  key to select item, “V+& V-” to adjust the data.
Setting AGC data to 14 to obtain the Noise of Screen Signal is at minimum.
DVSS: ON
- ④ Setting BURN IN at On (Analog Board is on when no signal)
LCD TV TCL Ver. 1.22D/25 /10/2003 (Update irregularly)
Auto Format ZOOM
Tuner AGC 14
Transparent OSD 66
DVSS ON
Burn-in Mode ON
Min.volume.1% 46
Sound curve.10% 70
Sound curve.20% 76
Sound curve.40% 90
Sound curve.80% 110
Sound curve.100% 124
- ⑤ Pressing “ EXIT ” to exit.

II> Adjustment of White Balance in VGA mode

- ② Applying VGA signal, 640 x 480 60Hz, switching signal source to PC mode, 9300K.
- ③ Choosing White Signal, using Color Temperature Instrument or White Balance Instrument to test the color coordinate.
- ④ Pressing “0”, “6”, “4”, “0”, “5” key in RC to enter into Factory Mode, pressing “CH+, CH-” to select item, “V+, V-” to adjust R、 G、 B data to obtain $x=284\pm15$, $Y=299\pm15$;

- ④ 7000K $X=305\pm15$, $Y=320\pm15$
- ⑤ 7500K $X=299\pm15$, $Y=315\pm15$

III> AUTO Adjustment of User Setting in VGA mode

- ① Applying Square Signal, pressing “ i ” key in RC to enter into User Menu.
- ② Pressing “CH+, CH-” to select “AUTO” item, and “V+” to active the auto adjustment then screen will be dark instantly. If finished, screen will be ok automatically.
- ③ If auto adjustment lost or some disturb/noise in screen, please adjust PHASE by manual.

Applying signal modes :

640 X 480 (60, 72, 75, 85Hz)

720 X 400 (60, 70Hz)

800 X 600 (60, 75, 85Hz)

1024 X 768 (60, 75Hz)

To do the checking and auto adjustment separately when applying the kinds of signals, if no problem exists, it is unnecessary to adjust the data in EEPROM.

IV> Adjustment of White Balance in TV mode.

- ① Applying SCART White Signal, using White Balance Instrument to test.
- ② Pressing “0”, “6”, “4”, “0”, “5” key in RC to enter into Factory Mode, pressing “CH+, CH-” to select item, “V+, V-” to adjust R、 G、 B data to obtain $X=0.284$, $Y=0.299$, color temperature: 9300, Luminance> 350cd.
- ③ Pressing “ EXIT ” to exit.

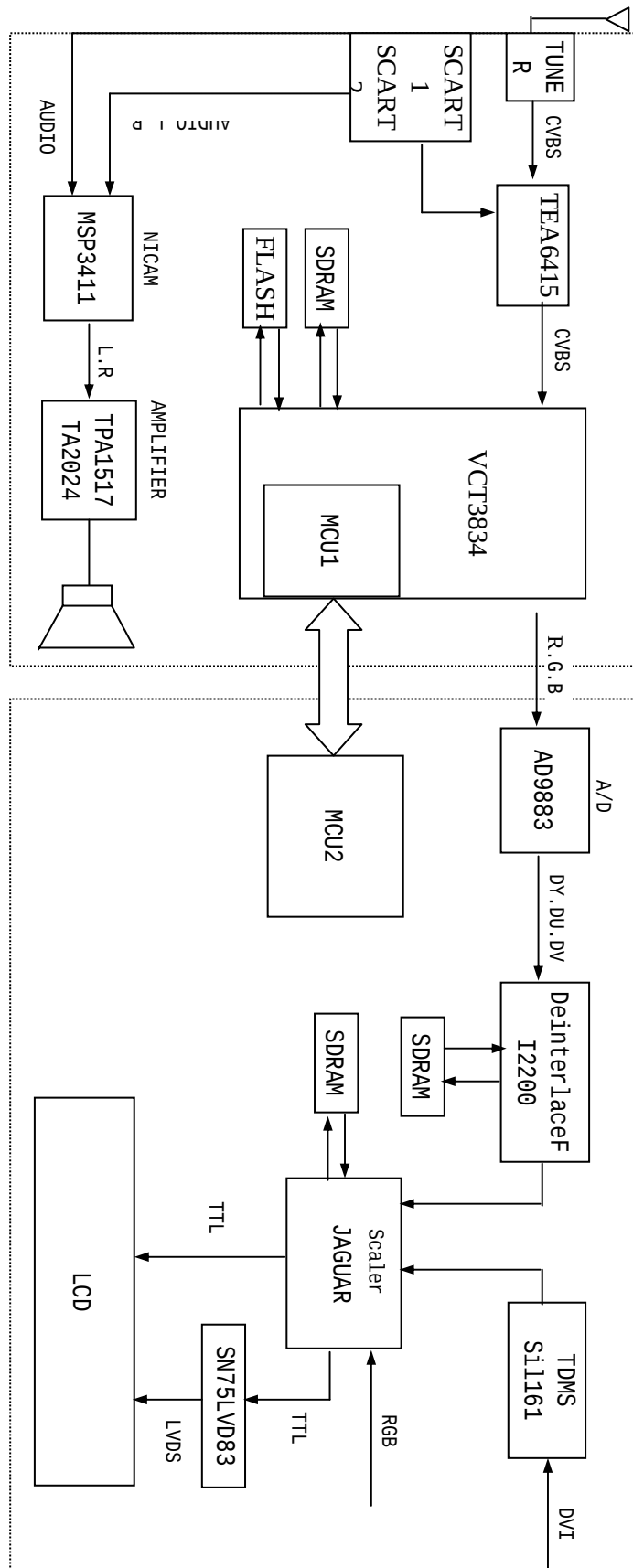
> Checking Complete LCD TV

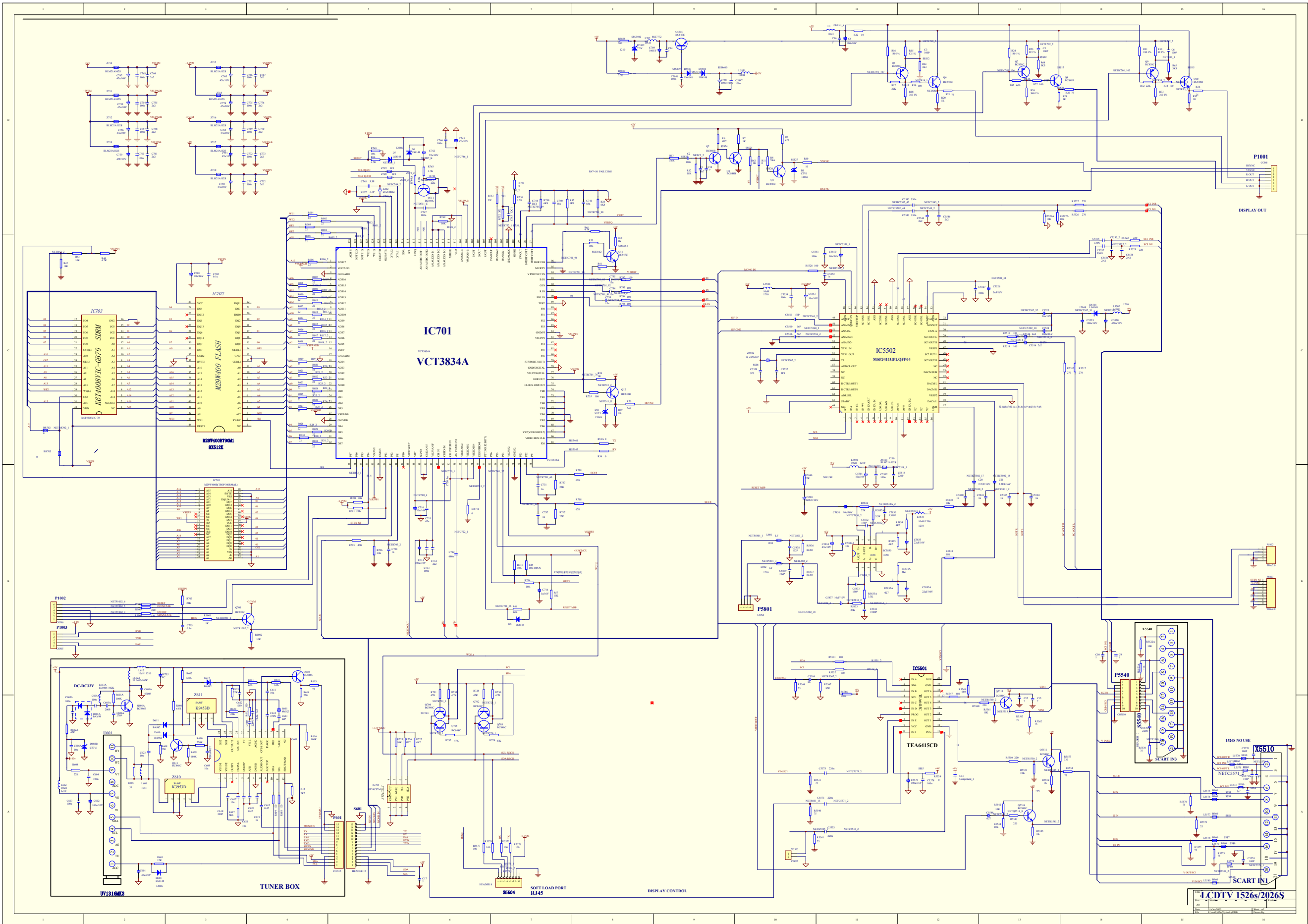
- ① Applying TV signal to check whether AGC can work normal. (40~100dB TV signal).
If AGC is abnormal, please do fine tuning.
(If overloading, please lower AGC Value)
- ② Applying SCART signal to check whether the input and output of SCART can work normal in R、 G、 B、 Y/C、 SCART, 16:9/4:3 mode.
- ③ Applying VGA signals to checking:
640 X 480 (60, 72, 75, 85Hz)
720 X 400 (60, 70Hz)
800 X 600 (60, 75, 85Hz)
1024 X 768 (60, 75Hz)
- ④ Checking PIP in TV Signal (VGA mode)
 - a. Pressing “ 0 ” to choose PC mode and “ OK ” to enter into VGA mode, applying VGA signal.
 - b. Pressing “1▶”key in RC to active PIP function, pressing this key continuously to scale up the PIP picture and disappeared circularly , there are four scales.

- c. Pressing “  ” key to locate the PIP picture from Top-left, Top-right, Bottom-right, Bottom-left and center circularly.
- d. Pressing “  ” key in RC to close the PIP when the picture is in largest scale.
- d. Press Green Key in RC can switch the PIP signal source.
- ⑤ Checking PIP in DVI mode
Pressing “ 0 ” to choose PC mode and “ OK ” to enter into VGA mode.
Repeat ④ to check PIP scale and location.
- ⑥ Safety Checking
a. AC 3000V; b. Resistance > 4MΩ
- ⑦ Default data setting:
Applying factory signal, setting the data to default when in best picture, best sound and so on.

Picture Default Value setting: (Only for reference)				Sound Default Value setting: (Only for reference)	
	TV/SCART	RGB	VGA	Volume	35
Brightness	50%	55%	40%	Treble	50
Contrast	70%	40%	75%	Base	50
Color	50%	Location: 30%		Balance	Center
Contour	20%			Base	Normal
Tone	Center			AVC	off

5. BLOCK DIAGRAM





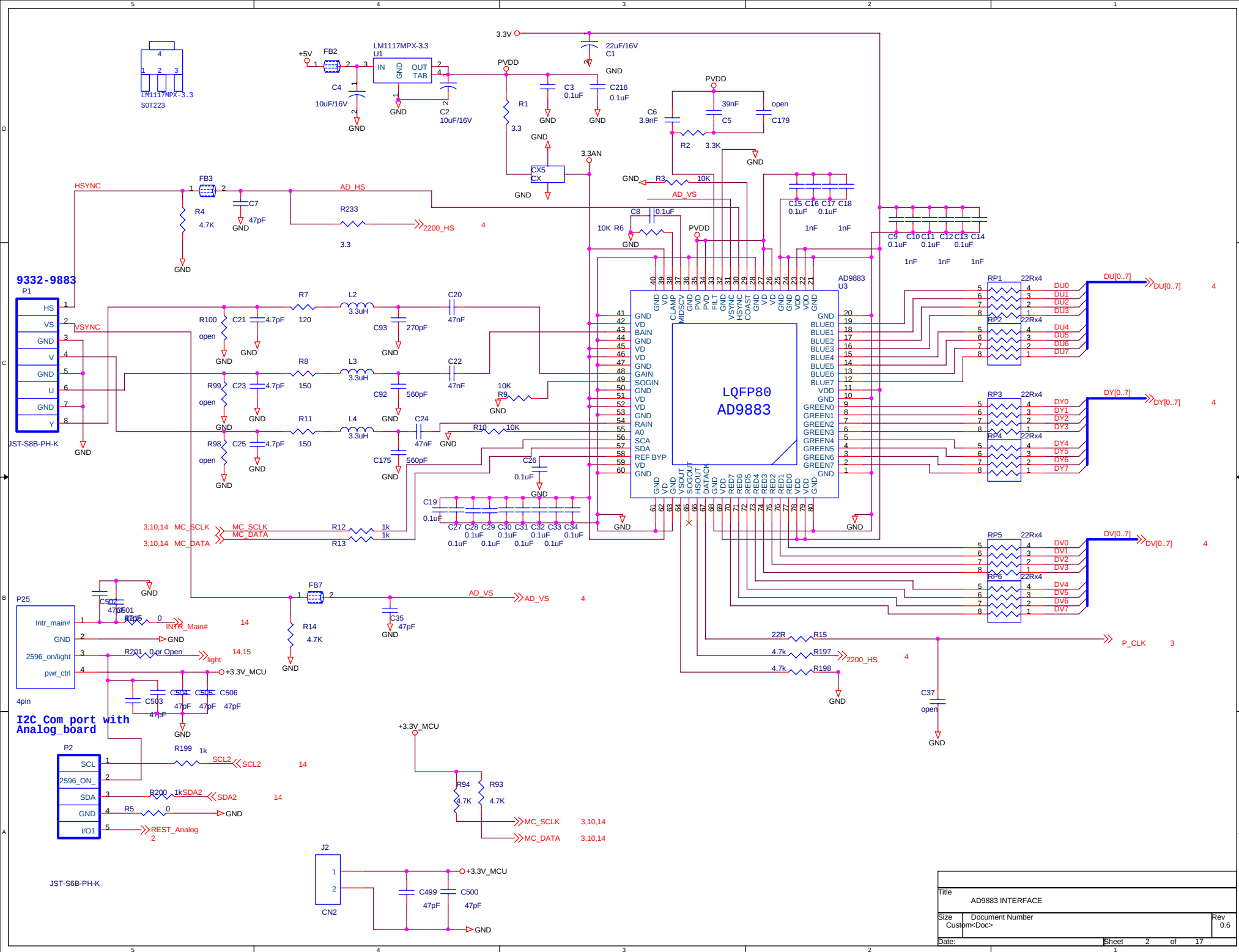
LCD MONITOR TV LCD26S series

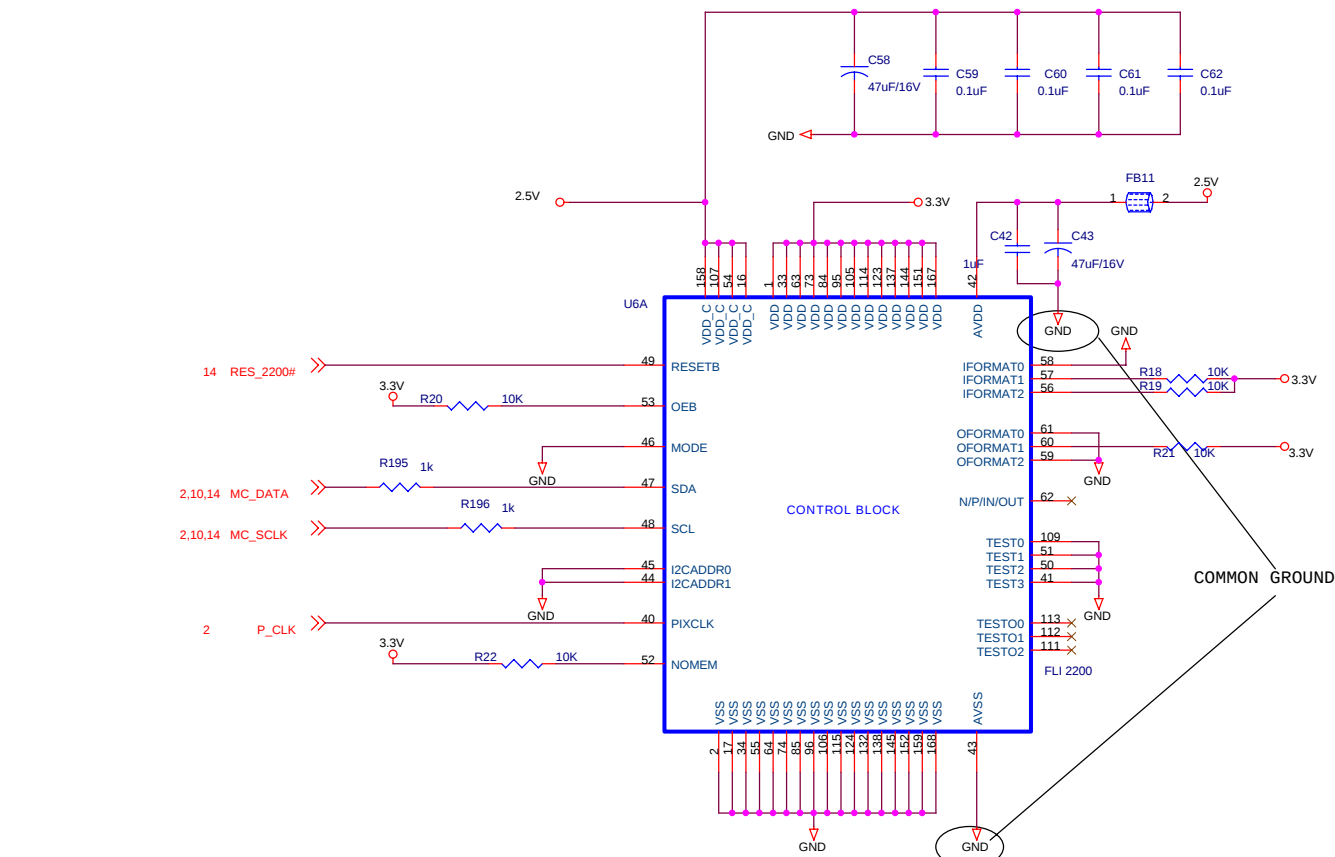
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Status:V2.0 20030815

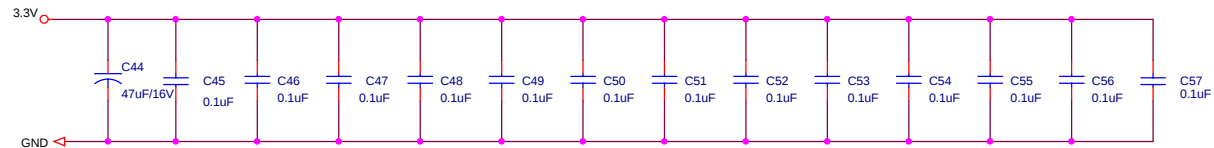
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LCD3026		
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Rev
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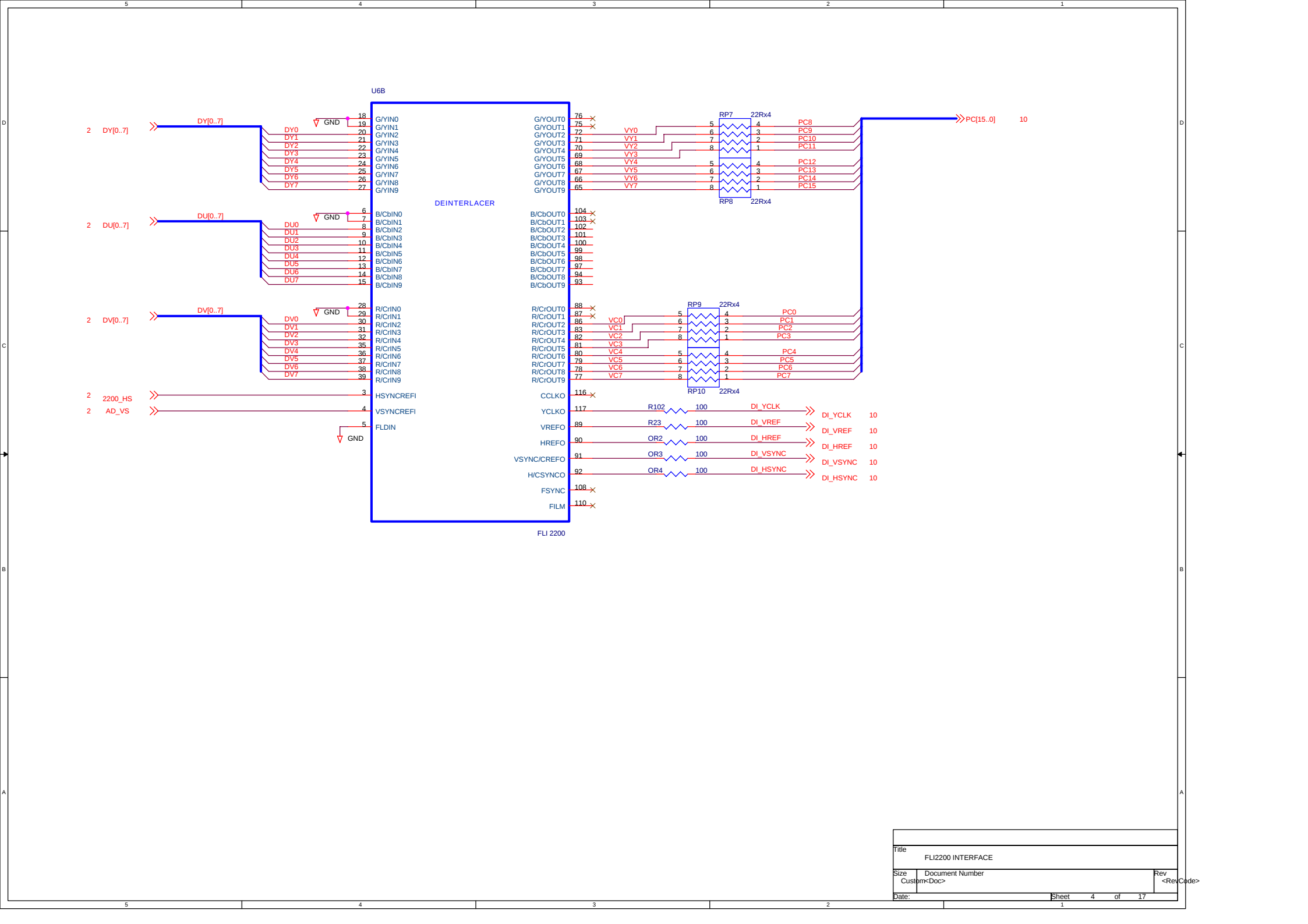


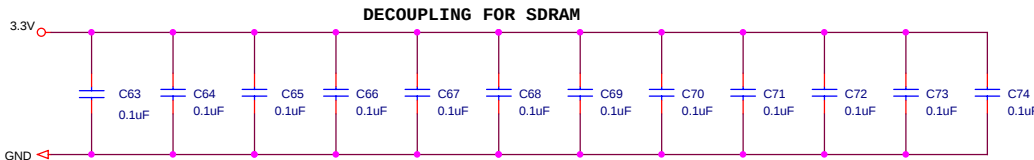
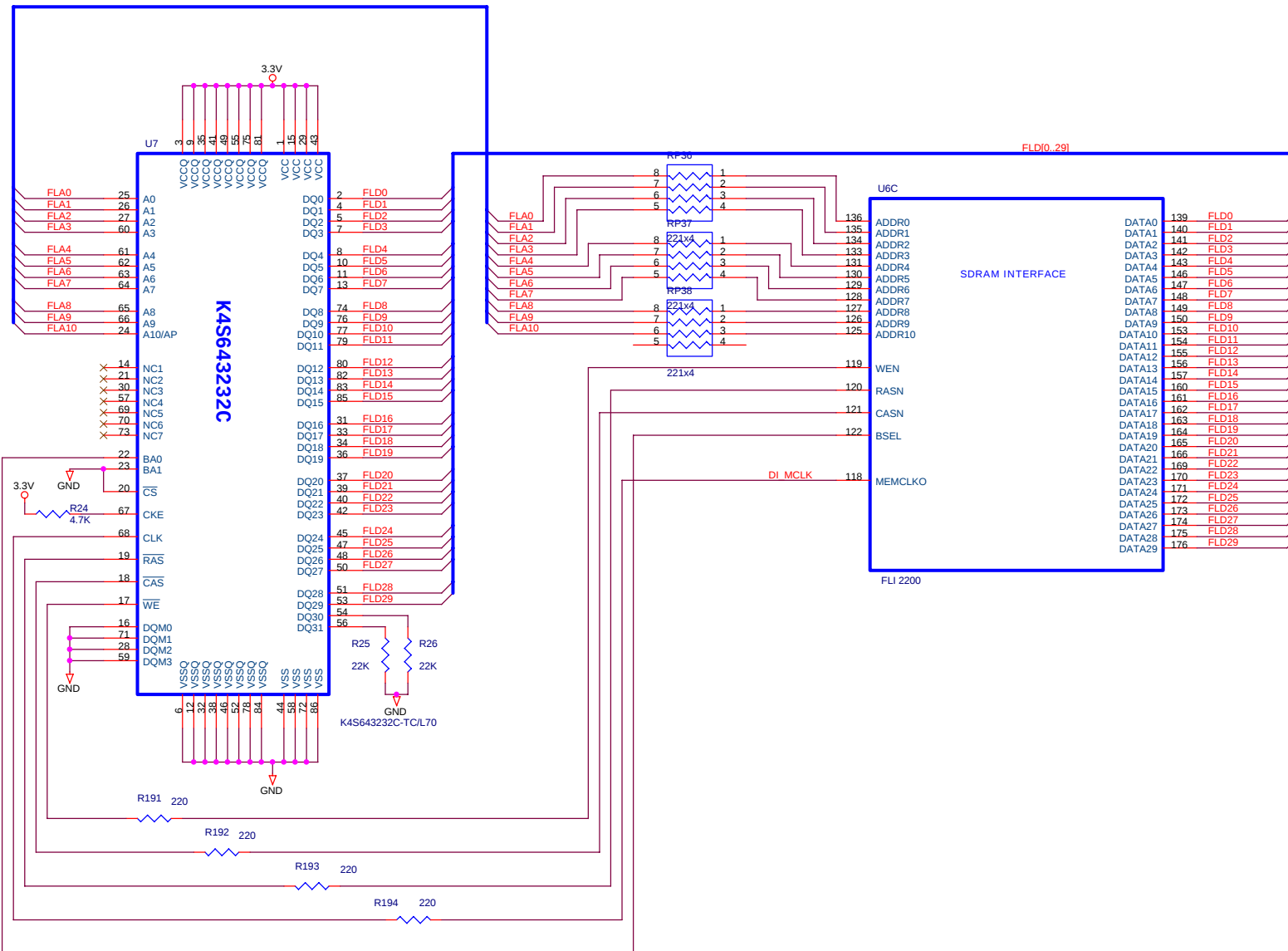


DECOUPLING FOR FLI2200

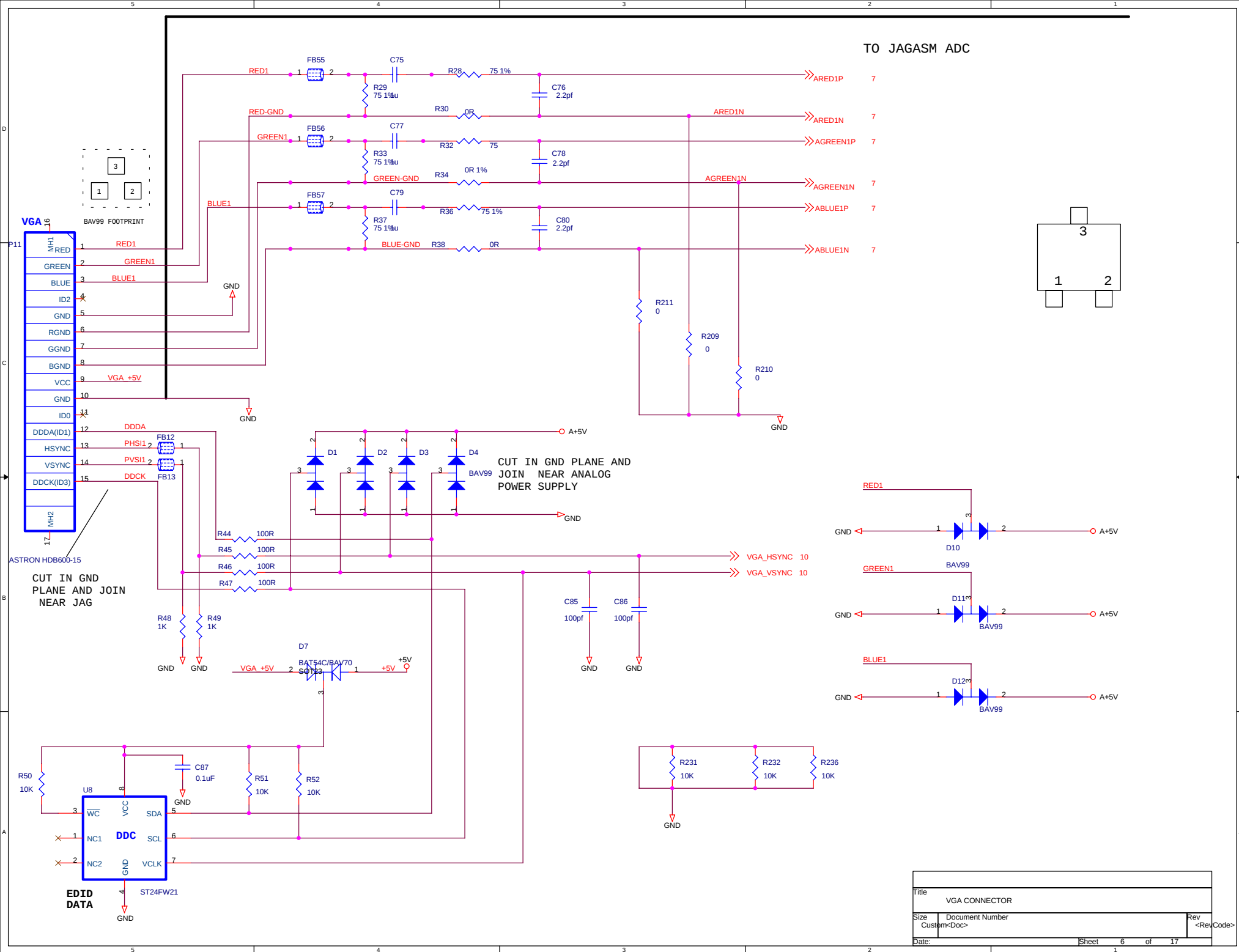


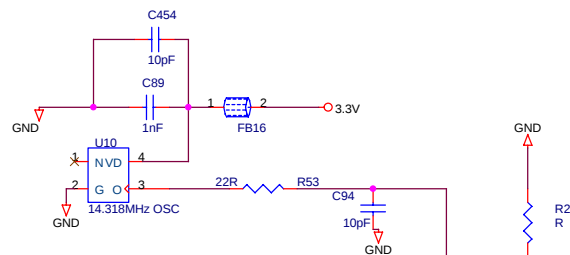
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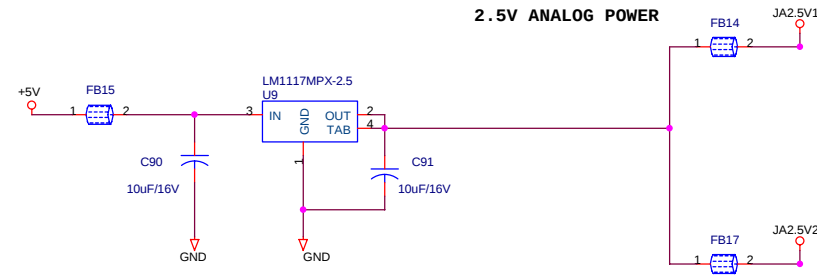


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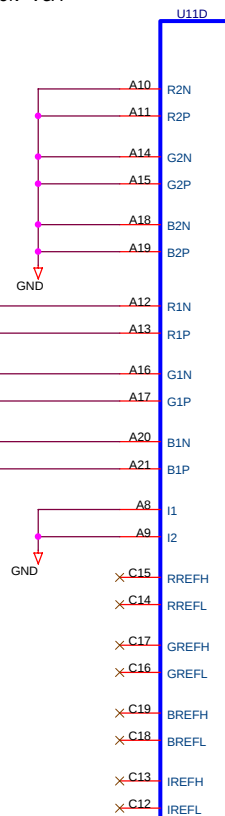




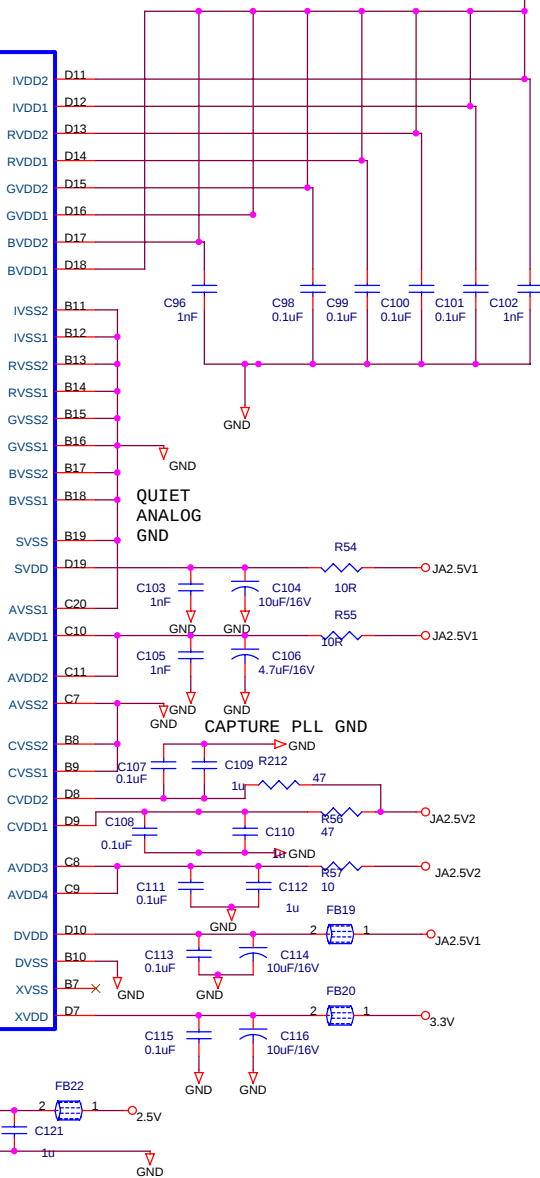
UNDER THESE LINES GND PLANE MUST BE CUT FROM VGA AS SHOWN ON VGA SHEET.



6 ARED1N
6 ARED1P
6 AGREEN1N
6 AGREEN1P
6 ABLUE1N
6 ABLUE1P

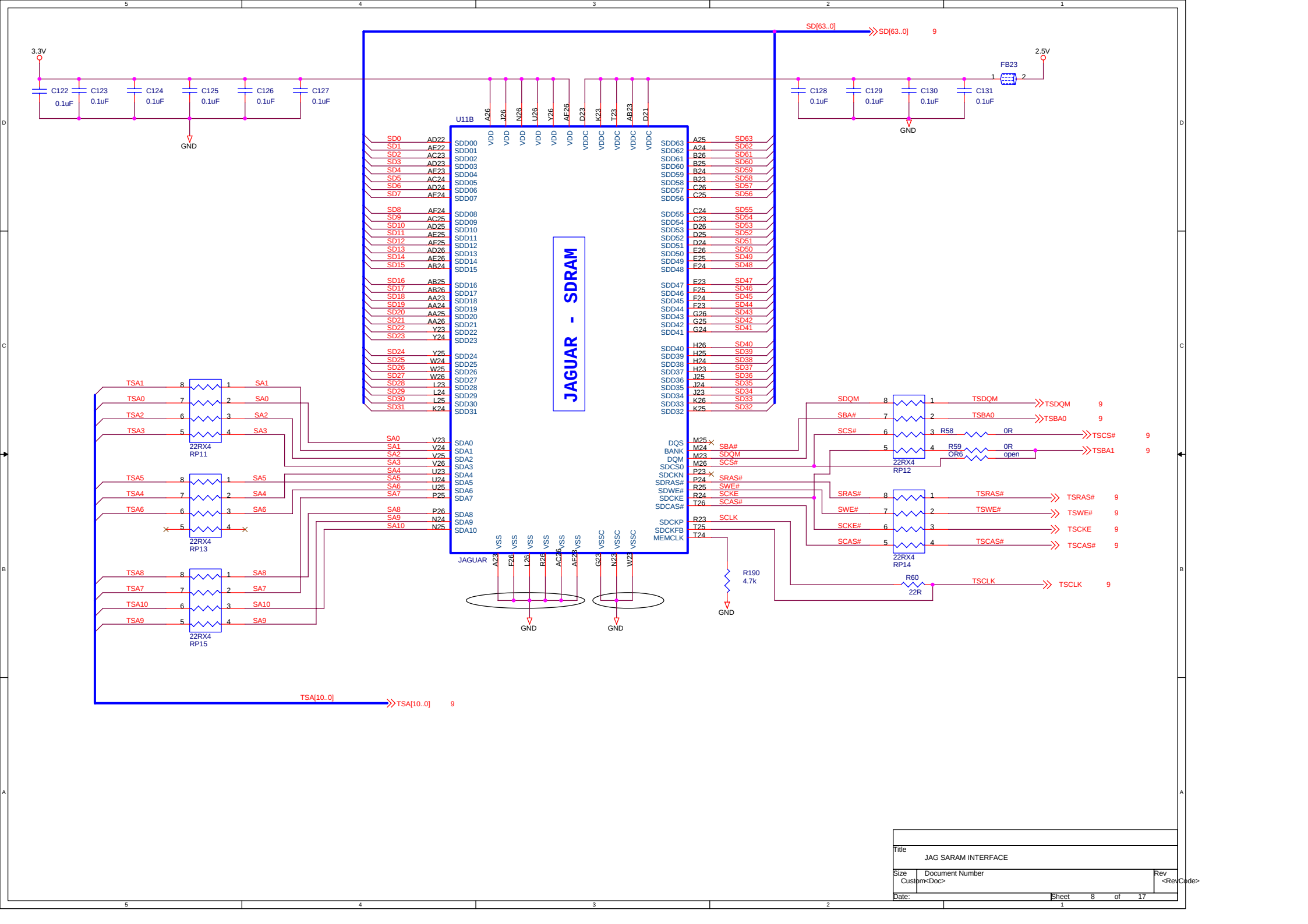


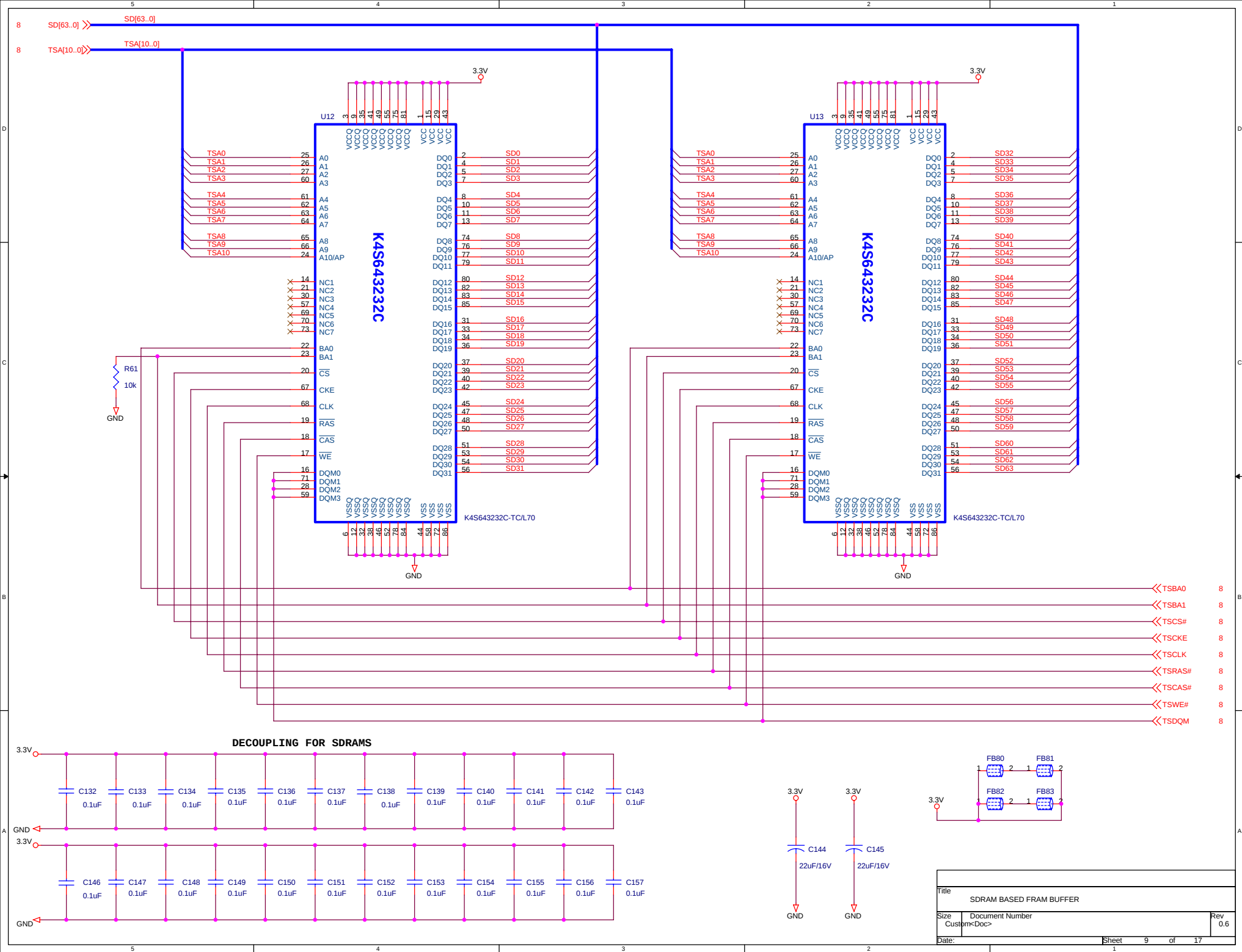
JAGUAR - ANALOG

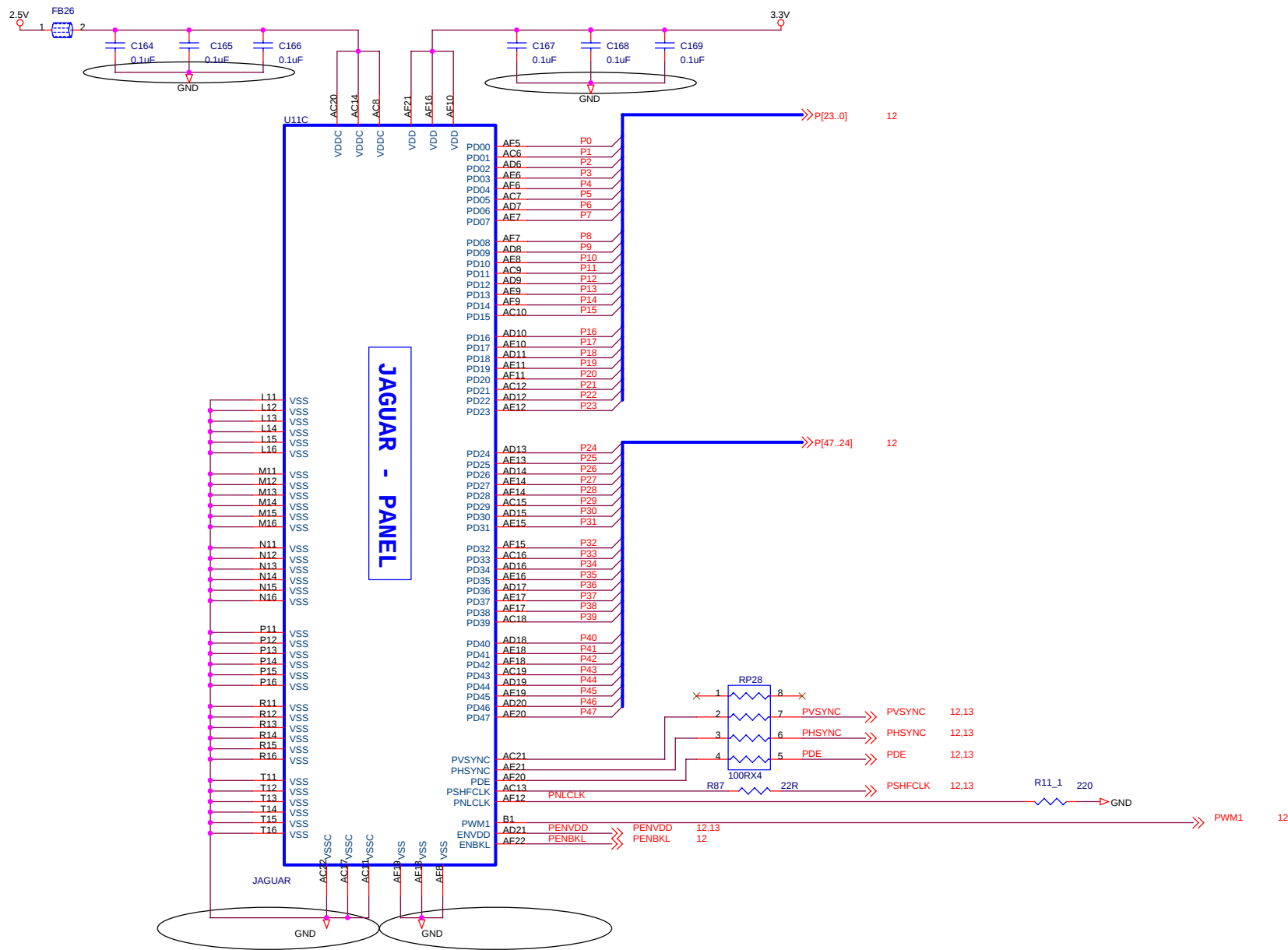


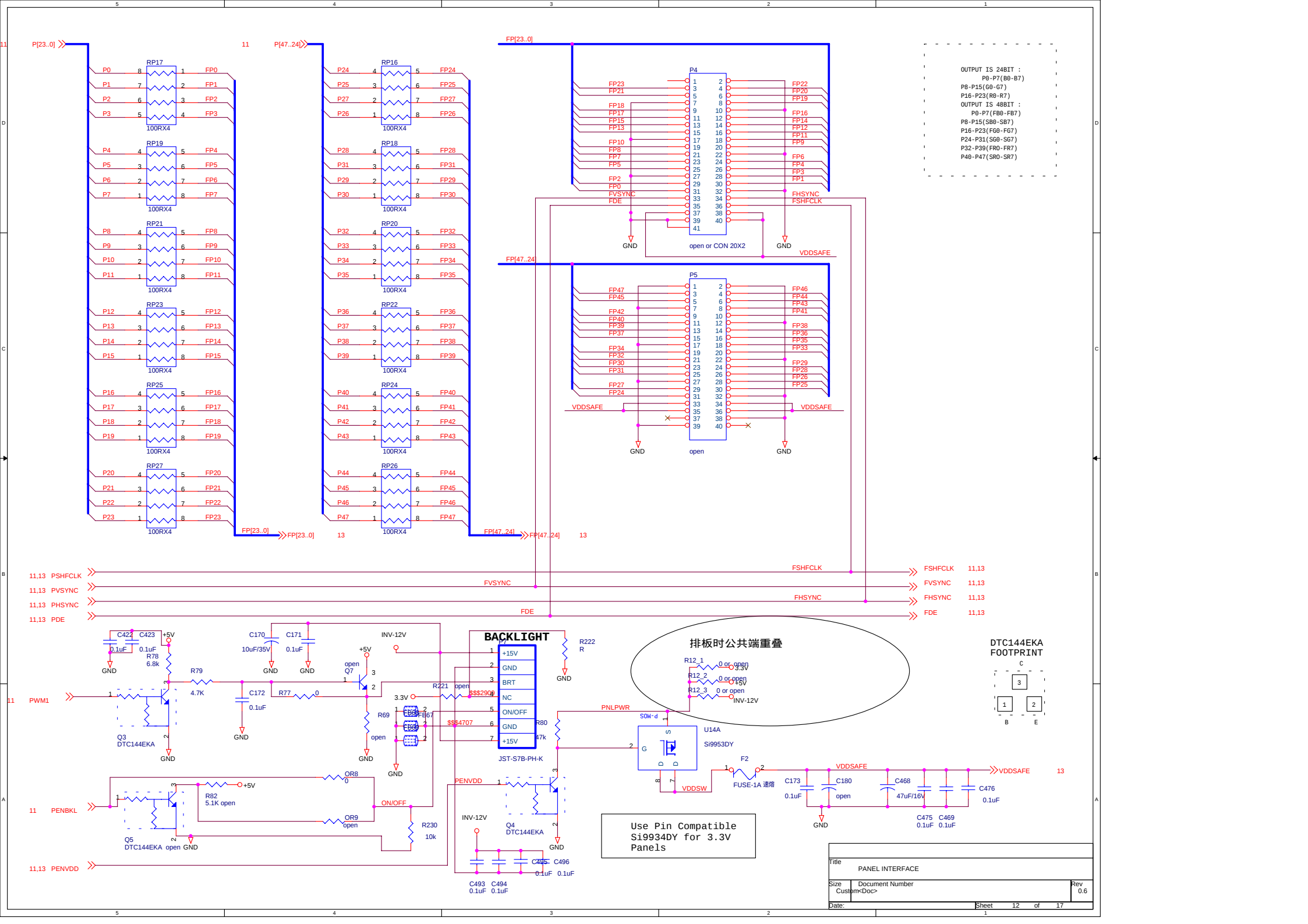
PLACE NEAR LM1117-2.5

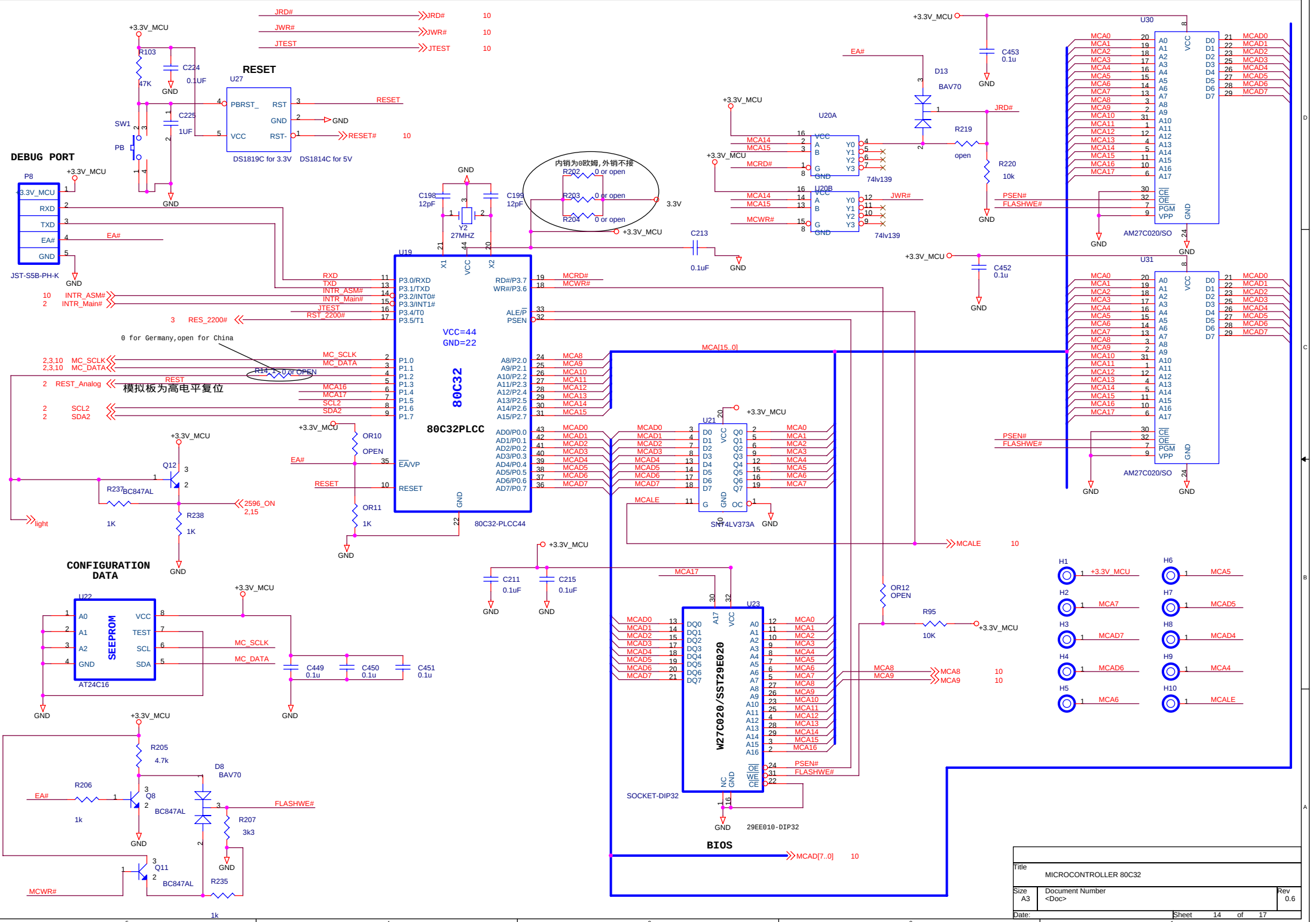
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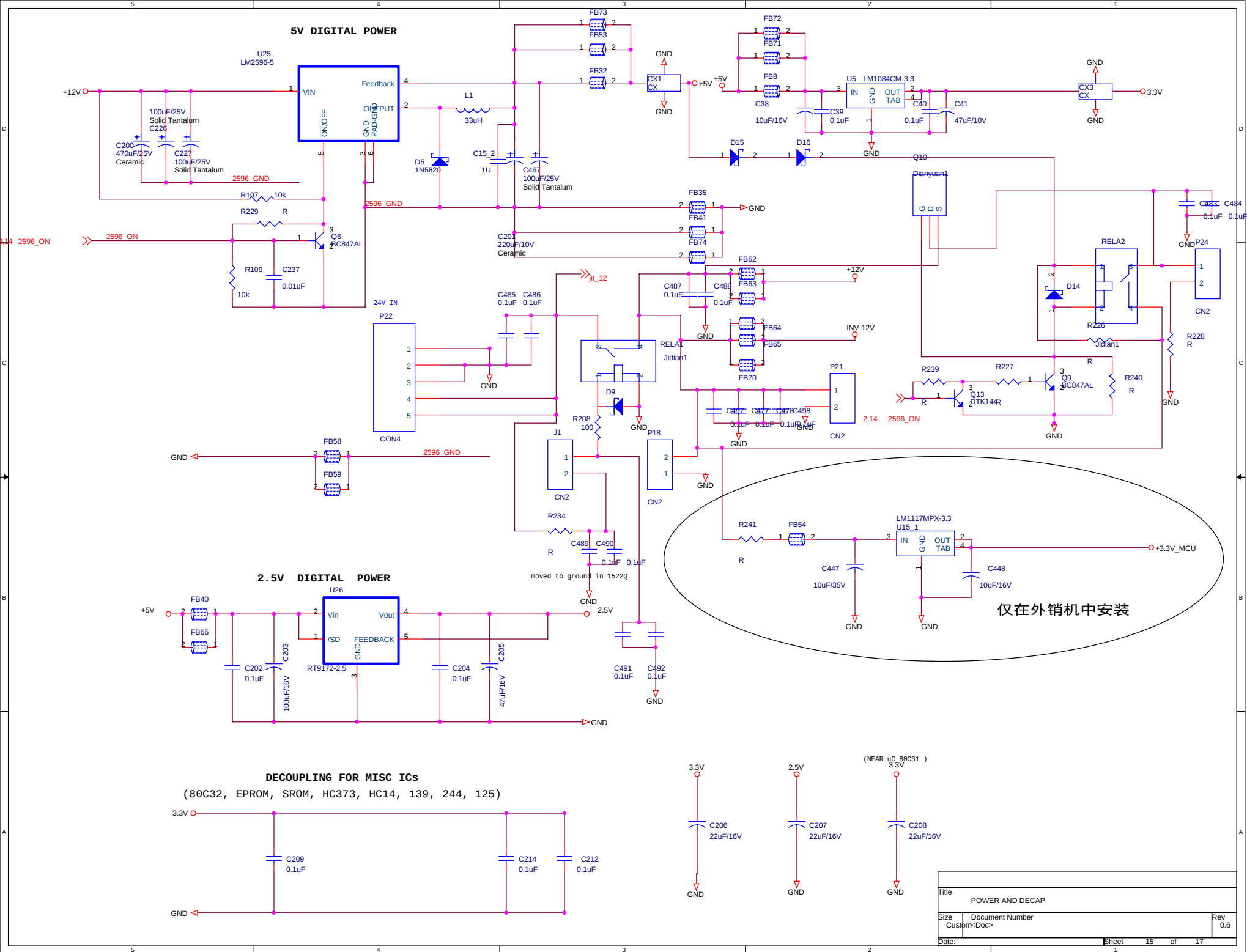


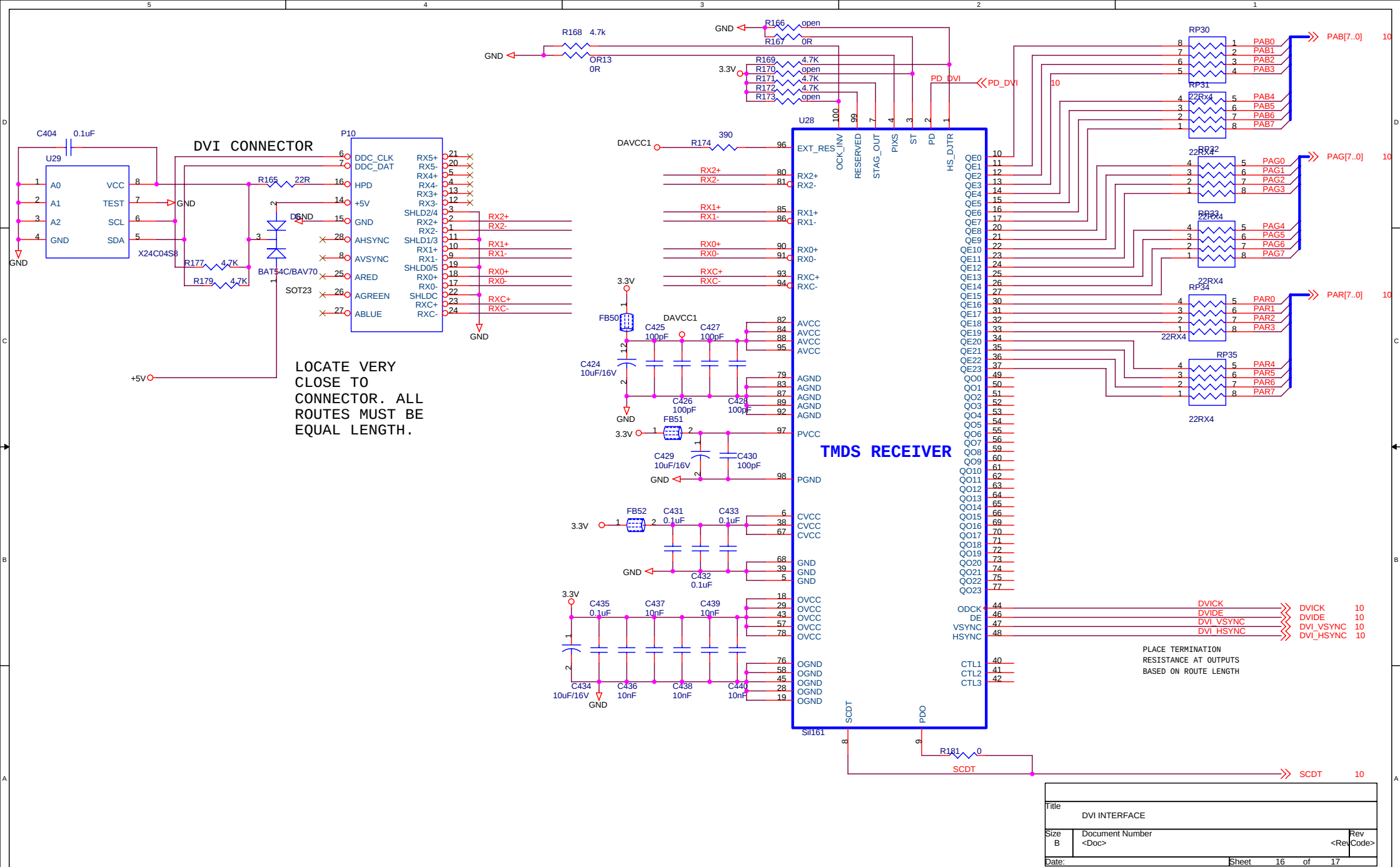




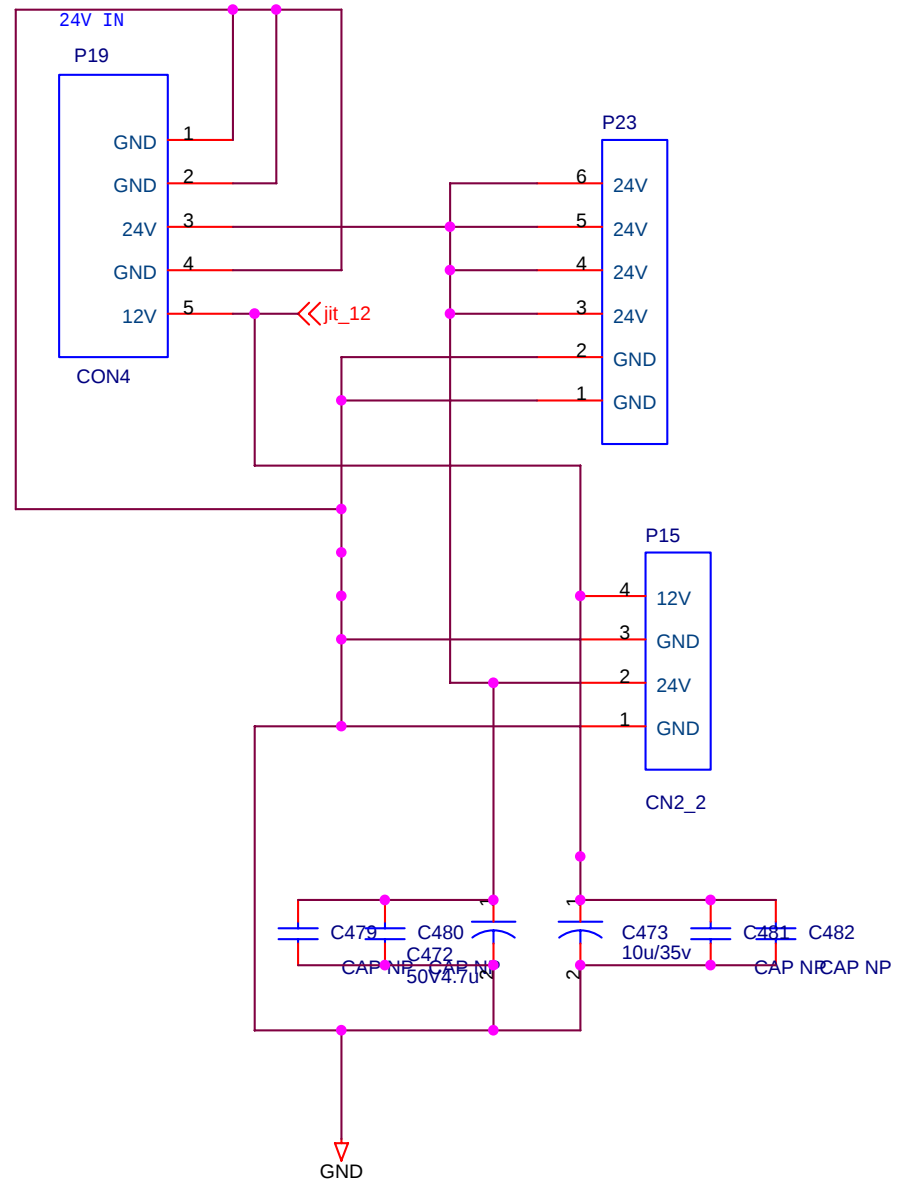
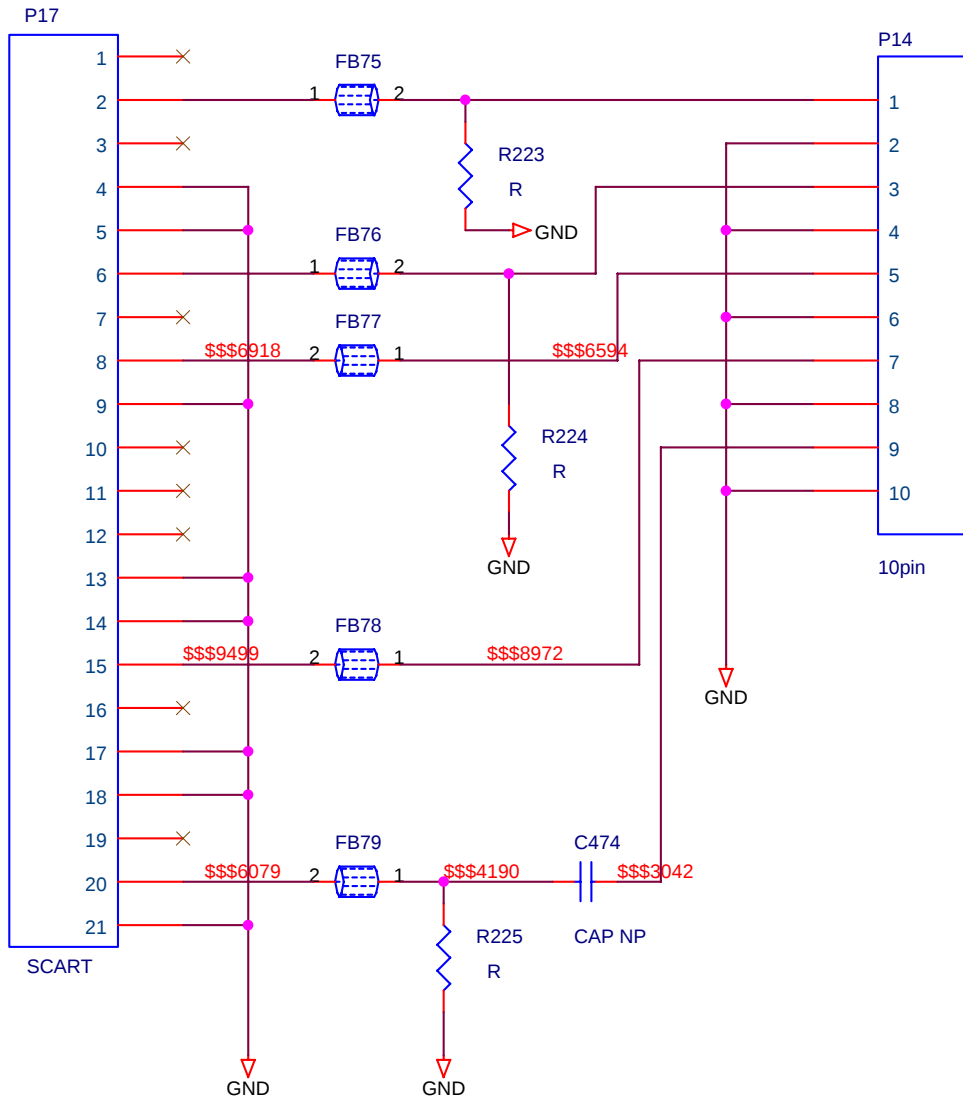








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DVI INTERFACE				
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Date:	Sheet	16	of	17



SCHNEIDER ELECTRONICS GMBH-GERMANY

8. EXPLODE VIEW DIAGRAM

