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LCD TV

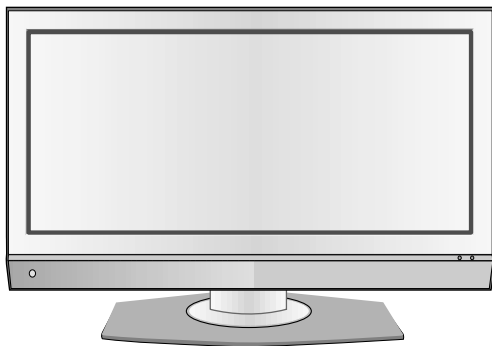
SERVICE MANUAL

CHASSIS : LD75A

MODEL : 37LF65 37LF65-ZC

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by $\triangle$ in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

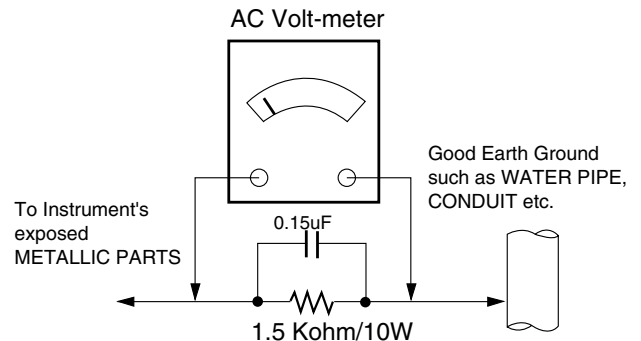
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

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 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 to prevent 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 buildup 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 type 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 charges 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 of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500°F to 600°F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This spec sheet is applied to the 37", 42", 47" LCD TV used LD75A chassis.

2. Specification

Each part is tested as below without special appointment.

- (1) Temperature : $25 \pm 5^{\circ}\text{C}$ ($77 \pm 9^{\circ}\text{F}$), CST : $40 \pm 5^{\circ}\text{C}$
- (2) Relative Humidity : $65\% \pm 10\%$
- (3) Power Voltage : Standard input voltage (100-240V~, 50/60Hz)

*Standard Voltage of each products is marked by models

- (4) Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.

- (5) The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test method

- (1) Performance : LGE TV test method followed
- (2) Demanded other specification
 - Safety : CE, IEC Specification
 - EMC : CE, IEC

4. General Specification(FHD Module)

Item	Specification	Measurement	Result	Remark
Display Screen Device	47/42/37 inch Wide Color Display Module		LCD	
Aspect Ratio	16:9			
LCD Module	37LB5DF (37LF65): LC370WU1-SL01 42LB5DF (42LF65): LC420WU2-SLB1 47LB5DF (47LF65): LC470WU1-SLB2 37LY3DF (37LY95): LC370WU1-SL01 42LY3DF (42LY95): LC420WU2-SLC1 47LY3DF (47LY95): LC470WU4-SLC1			
Operating Environment	1) Temp. : 0 ~ 40 deg 2) Humidity : 10 ~ 90%			LGE SPEC
Storage Environment	3) Temp. : -20 ~ 50 deg 4) Humidity : 10 ~ 90 %			
Input Voltage	AC100 ~ 240V, 50/60Hz			Maker LG

5. Chroma & Brightness

5-1. FHD Module-47LB5DF (47LF65)

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>		R/L	178			Viewing	R/L	178	
		U/D	178			Angle<CR>10>	U/D	178	
White average brightness		47LF65	450	550	-	cd/m²			- 100IRE Full White Pattern(255gray) - Picture : Dynamic (Cool)
Brightness uniformity			1.3	0	1.3	cd/m²			- 100IRE Full White Pattern(255gray) - Picture : Dynamic (Cool)
Color Coordinate	White	X	0.261	0.276	0.291				- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Y	0.268	0.283	0.298				
	Red	X	0.603	0.618	0.633				
		Y	0.318	0.333	0.348				
	Green	X	0.260	0.275	0.290				
		Y	0.568	0.583	0.598				
	Blue	X	0.132	0.147	0.162				
		Y	0.046	0.061	0.076				
Color coordinate uniformity			-0.03	Average	+0.03				- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
Contrast Ratio at dark room	CR with PWM-Dimming CR without PWM-Dimming		4000 : 1 (600:1)	5000 : 1 (800:1)					- Full white(100IRE) - Full black(0IRE) pattern - Picture : Dynamic (Cool) -Input:TV/DTV/AV1,2,3/Comp/HDMI1,2 -> CR with PWM-Dimming RGB/HDMI-PC -> CR without PWM-Dimming
Color Temperature	Medium		8300	9300	10300				- 85IRE Full White Pattern (216 gray)
	Warm		5500	6500	7500				- Picture : Dynamic (Cool)
	Cool		10000	11000	12000				
Color pull in Range	PAL		-500		+500	Hz			
	NTSC		-500		+500	Hz			
Color killer Sensitivity					-80		dBm		

*** PWM-Dimming function works after 30 seconds. So, When you check the CR, you must wait 30 minutes for check the Full Black level and then 10 minutes for check the Full White level.***

5-2. FHD Module-42LB5DF (42LF65)

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>		R/L	178			Viewing Angle <CR>10>	R/L U/D	178	
		U/D	178					178	
White average brightness		42LF65	450	550	-	cd/m²			- 100IRE Full White Pattern (255gray) - Picture : Dynamic (Cool)
Brightness uniformity			1.3	0	1.3	cd/m²			- 100IRE Full White Pattern (255gray) - Picture : Dynamic (Cool)
Color Coordinate	White	X	0.261	0.276	0.291				- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Y	0.268	0.283	0.298				
	Red	X	0.603	0.618	0.633				
		Y	0.318	0.333	0.348				
	Green	X	0.260	0.275	0.290				
		Y	0.568	0.583	0.598				
	Blue	X	0.132	0.147	0.162				
		Y	0.046	0.061	0.076				
Color coordinate uniformity				-0.03	Average	+0.03			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
Contrast Ratio at dark room		CR with PWM-Dimming CR without PWM-Dimming		4000 : 1 (400:1)	5000 : 1 (600:1)				- Full white(100IRE) - Full black(0IRE) pattern - Picture : Dynamic (Cool) -Input:TV/DTV/AV1,2,3/Comp/HDMI1,2 -> CR with PWM-Dimming RGB/HDMI-PC -> CR without PWM-Dimming
Color Temperature		Medium		8300	9300	10300			- 85IRE Full White Pattern (216 gray)
		Warm		5500	6500	7500			- Picture : Dynamic (Cool)
		Cool		10000	11000	12000			
Color pull in Range		PAL		-500		+500	Hz		
		NTSC		-500		+500	Hz		
Color killer Sensitivity				-80			dBm		

5-3. FHD Module-37LB5DF (37LF65)

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>	R/L		178			Viewing Angle <CR>10>	R/L U/D	178	
	U/D		178					178	
White average brightness	37LF65		400	500	-	cd/m²			- 100IRE Full White Pattern (255gray) - Picture : Dynamic (Cool)
Brightness uniformity			1.3	0	1.3	cd/m²			- 100IRE Full White Pattern (255gray) - Picture : Dynamic (Cool)
Color Coordinate	White	X	0.261	0.276	0.291				- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Y	0.268	0.283	0.298				
	Red	X	0.603	0.618	0.633				
		Y	0.318	0.333	0.348				
	Green	X	0.260	0.275	0.290				
		Y	0.595	0.610	0.625				
	Blue	X	0.132	0.147	0.162				
		Y	0.046	0.061	0.076				
Color coordinate uniformity				-0.03	Average	+0.03			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
Contrast Ratio at dark room	CR with PWM-Dimming CR without PWM-Dimming		4000 : 1 (400:1)	5000 : 1 (600:1)					- Full white(100IRE) - Full black(0IRE) pattern - Picture : Dynamic (Cool) - Input:TV/DTV/AV1,2,3/Comp/HDMI1,2 -> CR with PWM-Dimming RGB/HDMI-PC -> CR without PWM-Dimming
Color Temperature	Medium		8300	9300	10300				- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
	Warm		5500	6500	7500				
	Cool		10000	11000	12000				
Color pull in Range	PAL		-500		+500	Hz			
	NTSC		-500		+500	Hz			
Color killer Sensitivity				-80			dBm		

5-3. FHD Module-47LY3DF (47LY95)

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>		R/L	178			Viewing Angle <CR>10>	R/L U/D	178	
		U/D	178					178	
White average brightness		47LY95	400	500	-	cd/m²			-100IRE Full White Pattern (255 gray) - Picture : Dynamic (Cool)
Brightness uniformity			1.3	0	1.3	cd/m²			- 100IRE Full White Pattern(255 gray) - Picture : Dynamic (Cool)
Color Coordinate	White	X	0.261	0.276	0.291				- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Y	0.268	0.283	0.298				
	Red	X	0.603	0.618	0.633				
		Y	0.318	0.333	0.348				
	Green	X	0.260	0.275	0.290				
		Y	0.568	0.583	0.598				
	Blue	X	0.132	0.147	0.162				
		Y	0.046	0.061	0.076				
Color coordinate uniformity				-0.03	Average	+0.03			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
Contrast Ratio at dark room		CR with PWM-Dimming CR without PWM-Dimming		4000 : 1 (400:1)	5000 : 1 (600:1)				- Full white(100IRE) - Full black(0IRE) pattern - Picture : Dynamic (Cool) -Input:TV/DTV/AV1,2,3/Comp/HDMI1,2 -> CR with PWM-Dimming RGB/HDMI-PC -> CR without PWM-Dimming
Color Temperature		Medium		8300	9300	10300			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Warm		5500	6500	7500			
		Cool		10000	11000	12000			
Color pull in Range		PAL		-500		+500	Hz		
		NTSC		-500		+500	Hz		
Color killer Sensitivity				-80			dBm		

5-3. FHD Module-42LY3DF (42LY95)

Item		Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>	R/L	178			Viewing Angle <CR>10>	R/L U/D	178	
	U/D	178					178	
White average brightness	42LY95	350	400	-	cd/m²			-100IRE Full White Pattern (255 gray) - Picture : Dynamic (Cool)
Brightness uniformity1.3		1.3	0	0	cd/m²			-100IRE Full White Pattern (255 gray) - Picture : Dynamic (Cool)
Color Coordinate	White	X	0.261	0.276	0.291			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Y	0.273	0.288	0.303			
	Red	X	0.652	0.667	0.682			
		Y	0.307	0.321	0.336			
	Green	X	0.168	0.183	0.198			
		Y	0.665	0.710	0.725			
	Blue	X	0.121	0.136	0.151			
		Y	0.060	0.075	0.090			
Color coordinate uniformity			-0.03	Average	+0.03			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
Contrast Ratio at dark room	CR with PWM-Dimming CR without PWM-Dimming		4000 : 1 (400:1)	5000 : 1 (600:1)				- Full white(100IRE) - Full black(0IRE) pattern - Picture : Dynamic (Cool) -Input:TV/DTV/AV1,2,3/Comp/HDMI1,2 -> CR with PWM-Dimming RGB/HDMI-PC -> CR without PWM-Dimming
Color Temperature	Medium		8300	9300	10300			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
	Warm		5500	6500	7500			
	Cool		10000	11000	12000			
Color pull in Range	PAL		-500		+500	Hz		
	NTSC		-500		+500	Hz		
Color killer Sensitivity			-80			dBm		

5-3. FHD Module-37LY3DF (37LY95)

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>		R/L	178			Viewing Angle <CR>10>	R/L U/D	178	
		U/D	178					178	
White average brightness		37LY95	400	500	-	cd/m²			- 100IRE Full White Pattern(255 gray) - Picture : Dynamic (Cool)
Brightness uniformity			1.3	0	1.3	cd/m²			- 100IRE Full White Pattern (255gray) - Picture : Dynamic (Cool)
Color Coordinate	White	X	0.261	0.276	0.291				- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Y	0.268	0.283	0.298				
	Red	X	0.603	0.618	0.633				
		Y	0.318	0.333	0.348				
	Green	X	0.260	0.275	0.290				
		Y	0.568	0.583	0.598				
	Blue	X	0.132	0.147	0.162				
		Y	0.046	0.061	0.076				
Color coordinate uniformity				-0.03	Average	+0.03			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
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Color Temperature		Medium		8300	9300	10300			- 85IRE Full White Pattern (216 gray) - Picture : Dynamic (Cool)
		Warm		5500	6500	7500			
		Cool		10000	11000	12000			
Color pull in Range		PAL		-500		+500	Hz		
		NTSC		-500		+500	Hz		
Color killer Sensitivity				-80			dBm		

6. Component Video Input (Y, P_B, P_R)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock(MHz)	Proposed
1	720*480	15.73	59.94	13.500	SDTV, DVD 480I(525I)
2	720*480	15.75	60.00	13.514	SDTV, DVD 480I(525I)
3	720*576	15.625	50.00	13.500	SDTV, DVD 576I(625I)
4	720*480	31.47	59.94	27.000	SDTV 480P
5	720*480	31.50	60.00	27.027	SDTV 480P
6	720*576	31.25	50.00	27.000	SDTV 576P
7	1280*720	44.96	59.94	74.176	HDTV 720P
8	1280*720	45.00	60.00	74.250	HDTV 720P
9	1280*720	37.50	50.00	74.25	HDTV 720P
10	1920*1080	33.72	59.94	74.176	HDTV 1080I
11	1920*1080	33.75	60.00	74.250	HDTV 1080I
12	1920*1080	28.125	50.00	74.250	HDTV 1080I
13	1920*1080	67.50	60.00	148.50	HDTV 1080P

7. RGB Input (PC)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	Remarks
1.	720*400	31.468	70.08	28.32		
2.	640*480	31.469 37.500	59.94 75.00	25.17 31.50	VESA	848*480 60Hz, 852*480 60Hz -> No signal 640*480 60Hz Display
3	800*600	37.879 46.875	60.31 75.00	40.00 49.50	VESA	
4.	832*624	49.725	74.55	57.283	Macintosh	
5	1024*768	48.363 56.476 60.023	60.00 70.00 75.03	65.00 75.00 78.75	VESA(XGA)	
6	1280*768	47.693	59.99	80.125	WXGA	
7	1360*768	47.649	59.94	84.625	WXGA	
8	1366*768	47.649	59.94	84.625	WXGA	
9	1280*1024	63.595	60.0	108.875	SXGA	
10	1400*1050	65.160	60.0	122.50	SXGA	
11	1920*1080	66.647	59.988	138.625	WUXGA	Reduced Blanking Timing

7-1. EDID Input (PC)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	FF	FF	FF	FF	FF	FF	0	1E	6D	CA	75	1	1	1	1
10	9	10	1	3	1	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	0	31	40	45	40	61	40	81	80	90	40
30	D1	C0	1	1	1	1	1A	36	80	A0	70	38	1F	40	30	20
40	35	0	E8	26	32	0	0	1A	DA	2F	78	E0	51	1A	25	40
50	58	98	14	0	E8	26	32	0	0	1A	0	0	0	FD	0	39
60	4B	1F	54	12	0	0A	20	20	20	20	20	20	0	0	0	FC
70	0	33	37	4C	46	36	35	0A	20	20	20	20	20	20	0	27

<Example : 37LF65-ZC RGB EDID data>

6CH – 7DH : Model name

7EH : No Extension EDID Block

7FH : Check sum

Model Name : 47LB5DF (47LF65) / Check Sum : 0A

Model Name : 42LB5DF (42LF65) / Check Sum : 13

Model Name : 37LB5DF (37LF65) / Check Sum : 27

Model Name : 47LY3DF (47LY95) / Check Sum : F2

Model Name : 42LY3DF (42LY95) / Check Sum : FB

Model Name : 37LY3DF (37LY95) / Check Sum : 0F

8. HDMI Input (DTV)

No	Resolution	H-freq(kHz)	V-freq.(kHz)	Pixel clock(MHz)	Proposed	Remarks
1.	720*480	31.47	59.94	27.00	SDTV 480P(4:3)	PC mode -> Display 640*480
2.	720*480	31.50	60	27.027	SDTV 480P(4:3)	
3.	640*480	31.469	59.94	25.175	SDTV 480P(4:3)	
4.	640*480	31.469	60.00	25.20	SDTV 480P(4:3)	
5.	720*480	31.47	59.94	27.000	SDTV 480P(16:9)	
6.	720*480	31.50	60.00	27.027	SDTV 480P(16:9)	
7.	720*576	31.25	50.00	27.000	SDTV 576P	
8.	1280*720	37.50	50.00	74.176	HDTV 720P	PC mode -> Display 1280*768 60Hz
9.	1280*720	44.96	59.94	74.176	HDTV 720P	
10.	1280*720	45.00	60.00	74.250	HDTV 720P	
11	1920*1080	33.72	59.94	74.176	HDTV 1080I	
12	1920*1080	33.75	60.00	74.250	HDTV 1080I	
13	1920*1080	28.125	50.00	74.250	HDTV 1080I 50Hz	
14	1920*1080	27.000	24.00	74.250	HDTV 1080P 24Hz	
15	1920*1080	56.250	50	148.500	HDTV 1080P 50Hz	
16	1920*1080	67.433	59.94	148.352	HDTV 1080P	PC mode -> Display 1920*1080 60Hz
17	1920*1080	67.500	60	148.500	HDTV 1080P	

8. HDMI Input (PC)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	Remarks
1.	720*400	31.468	70.08	28.32		
2.	640*480	31.469 37.500	59.94 75.00	25.17 31.50	VESA	DTV mode -> Display 480p 848*480 60Hz, 852*480 60Hz Display No signal
3	800*600	37.879 46.875	60.31 75.00	40.00 49.50	VESA	
4.	832*624	49.725	74.55	57.283	Macintosh	
5	1024*768	48.363 56.476 60.023	60.00 70.00 75.03	65.00 75.00 78.75	VESA(XGA)	
6	1280*768	47.693	59.99	80.125	WXGA	
7	1360*768	47.649	59.94	84.625	WXGA	
8	1366*768	47.649	59.94	84.625	WXGA	
9	1280*1024	63.595	60.0	108.875	SXGA	
10	1400*1050	65.160	60.0	122.50	SXGA	Reduced Blanking Timing
11	1600*1200	74.077	60.0	130.375	UXGA	Input 1920*1200 60Hz -> No Signal
12	1920*1080	66.647	59.988	138.625	WUXGA	Reduced Blanking Timing DTV mode -> Display 1080p

8-1. EDID Input (HDMI)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	0	FF	FF	FF	FF	FF	FF	0	1E	6D	CB	75	1	1	1	1
10	9	10	1	3	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	0	31	40	45	40	61	40	81	80	90	40
30	A9	40	D1	C0	1	1	1A	36	80	A0	70	38	1F	40	30	20
40	35	0	E8	26	32	0	0	1A	1B	21	50	A0	51	0	1E	30
50	48	88	35	0	BC	86	21	0	0	1C	0	0	0	FD	0	39
60	4B	1F	54	12	0	0A	20	20	20	20	20	20	0	0	0	FC
70	0	33	37	4C	46	36	35	0A	20	20	20	20	20	20	1	FF
80	2	3	21	F1	4E	81	2	3	15	12	13	4	14	5	20	21
90	22	1F	10	23	9	7	7	83	1	0	0	65	3	0C	0	10
A0	0	1	1D	0	80	51	D0	1C	20	40	80	35	0	BC	88	21
B0	0	0	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	0	13
C0	8E	21	0	0	18	2	3A	80	18	71	38	2D	40	58	2C	45
D0	0	6	44	21	0	0	1E	1	1D	80	18	71	1C	16	20	58
E0	2C	25	0	C4	8E	21	0	0	9E	4E	1F	0	80	51	0	1E
F0	30	40	80	37	0	BC	88	21	0	0	18	0	0	0	0	1D

<Example : 37LF65-ZC HDMI1 EDID data>

6CH – 7DH : Model name

7EH : Extension EDID Block

7FH : Check sum

9FH : Vendor specification Block (10 : HDMI1, 20 : HDMI2)

FFH : Check sum valid

Model Name : 47LB5DF (47LF65) / Check Sum HDMI1 : E21D , HDMI2 : E20D

Model Name : 42LB5DF (42LF65) / Check Sum HDMI1 : EB1D , HDMI2 : EB0D

Model Name : 37LB5DF (37LF65) / Check Sum HDMI1 : FF1D , HDMI2 : FF0D

Model Name : 47LY3DF (47LY95) / Check Sum HDMI1 : CA1D , HDMI2 : CA0D

Model Name : 42LY3DF (42LY95) / Check Sum HDMI1 : D31D , HDMI2 : D30D

Model Name : 37LY3DF (37LY95) / Check Sum HDMI1 : E71D , HDMI2 : E70D

9. MODULE

9-1. General specifications-47LB5DF (47LF65): LC470WU1-SLB2

No	Item	Min	Typ	Max	Unit	Remark
1	Display area	1039.68 (H) * 584.82(V)			mm	
2	Outline dimension	1096 (W) x 640 (H) x 48.1 (D) with inverter			mm	
3	Number of Pixels	1920 (H) x 1080(V)				1Pixel=3RGB Cells
4	Cell pitch	541.5um (H) x 541.5um (V)			um	G cell
5	Color arrangement	RGB stripe arrangement				
6	Weight(net)		20		Kg	Net 1EA

9-2. General specifications-42LB5DF (42LF65): LC420WU2-SLB1

No	Item	Min	Typ	Max	Unit	Remark
1	Display area	930.24 (H) * 523.26 (V)			mm	
2	Outline dimension	983 (W) x 576 (H) x 51 (D) with inverter			mm	
3	Number of Pixels	1920 (H) x 1080(V)				1Pixel=3RGB Cells
4	Cell pitch	484.5um (H) x 484.5um (V)			um	G cell
5	Color arrangement	RGB stripe arrangement				
6	Weight(net)		13		Kg	Net 1EA

9-3. General specifications-37LB5DF (37LF65): LC370WU1-SL01

No	Item	Min	Typ	Max	Unit	Remark
1	Display area	819.36 (H) * 460.89 (V)			mm	
2	Outline dimension	877 (W) x 516.8 (H) x 55.5 (D) with inverter			mm	
3	Number of Pixels	1920 (H) x 1080(V)				1Pixel=3RGB Cells
4	Cell pitch	426.75um (H) x 426.75um (V)			um	G cell
5	Color arrangement	RGB stripe arrangement				
6	Weight(net)		10.5		Kg	Net 1EA

9-4. General specifications-47LY3DF (47LY95): LC470WU4-SLC1

No	Item	Min	Typ	Max	Unit	Remark
1	Display area	1039.68(H) * 584.82(V)			mm	
2	Outline dimension	1096 (W) x 640 (H) x 51(D) with inverter			mm	
3	Number of Pixels	1920 (H) x 1080(V)				1Pixel=3RGB Cells
4	Cell pitch	541.5um (H) x 541.5um (V)			um	G cell
5	Color arrangement	RGB stripe arrangement				
6	Weight(net)		16.5		Kg	Net 1EA

9-5. General specifications-42LY3DF (42LY95): LC420WU2-SLC1

No	Item	Min	Typ	Max	Unit	Remark
1	Display area	930.24(H) * 523.26(V)mm				
2	Outline dimension	983(W) x 576 (H) x 51(D) with inverter			mm	
3	Number of Pixels	1920 (H) x 1080(V)				1Pixel=3RGB Cells
4	Cell pitch	484.5um (H) x 484.5um (V)			um	G cell
5	Color arrangement	RGB stripe arrangement				
6	Weight(net)		13		Kg	Net 1EA

10. Mechanical specification

10-1. 47LB5DF (47LF65)

No	Item		Content			Remark
1	Product Dimension		Width (W)	Length (D)	Height (H)	
		Before Packing	1144.5	331	825.6	With Stand
		After Packing	1230	410	912	
2	Product Weight	Only SET	37.46 kg			With Stand
		With BOX	44.7 kg			

10-2. 42LB5DF (42LF65)

No	Item		Content			Remark
1	Product Dimension		Width (W)	Length (D)	Height (H)	
		Before Packing	1033.1	300	750	With Stand
		After Packing	1119	374	858	With Stand
2	Product Weight	Only SET	27.5Kg			With Stand
		With BOX	32.5Kg			

10-3. 37LB5DF (37LF65)

No	Item		Content			Remark
1	Product Dimension		Width (W)	Length (D)	Height (H)	
		Before Packing	1113.3	294.3	722.5	With Stand
		After Packing	1191	378	835	With Stand
2	Product Weight	Only SET	30.1Kg			With Stand
		With BOX	34.6Kg			

10-4. 47LY3DF (47LY95)

No	Item		Content			Remark
1	Product Dimension		Width (W)	Length (D)	Height (H)	
		Before Packing	1236.8	325.6	795.5	With Stand
		After Packing	1331	409	888	With Stand
2	Product Weight	Only SET	39.5Kg			With Stand
		With BOX	44.6Kg			

10-5. 42LY3DF (42LY95)

No	Item		Content			Remark
1	Product Dimension		Width (W)	Length (D)	Height (H)	
		Before Packing	1113.3	294.3	722.5	With Stand
		After Packing	1191	378	835	With Stand
2	Product Weight	Only SET	30.1Kg			With Stand
		With BOX	34.6Kg			

10-6. 37LY3DF (37LY95)

No	Item		Content			Remark
1	Product Dimension		Width (W)	Length (D)	Height (H)	
		Before Packing	1005	267	653	With Stand
		After Packing	1080	241	828	With Stand
2	Product Weight	Only SET	23.0Kg			With Stand
		With BOX	28.3Kg			

ADJUSTMENT INSTRUCTION

1. Application Range

This spec. sheet is applied to all of the LD75A chassis manufactured at LG TV Plant all over the world.
Ex.) LD75A : 37/42/47LF65-ZC, 37/42/47LY96-ZA

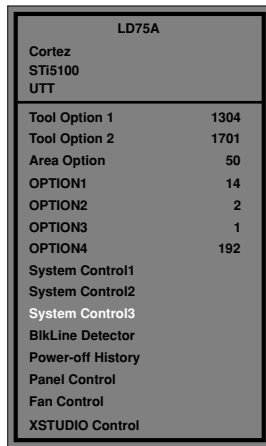
2. Specification

- 1.1 Because this is not a hot chassis, it is not necessary to use an isolation transformer.
However, the use of isolation transformer will help to protect test instruments.
- 1.2 Adjustment must be done in the correct sequence.
- 1.3 The adjustment must be performed at $25 \pm 5^{\circ}\text{C}$ temperature and $65 \pm 10\%$ relative humidity if there is no specified designation.
- 1.4 The input voltage of the receiver must be kept between 100~220V, 50/60Hz.
- 1.5 Before adjustment, execute Heat-Run for 30 minutes at RF no signal.

3. Channel Recover

* Use Channel Recover of System Control3 of Service Menu. You can load The Channel Map In LGEMA and LGEWR.

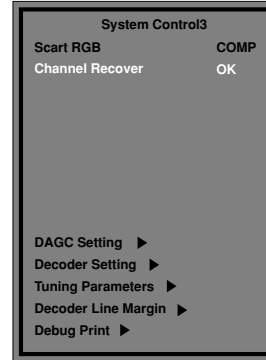
- 1) Press ADJ key on Service Remote Control. And then Choice System Control3.



- 2) Choice Channel Recover.



- 3) Press "▶" key. You can See "OK" letter. And Then The Set power off automatically.



- 4) After Turn on the SET. You can confirm The Channel map on Programme Edit OSD.
Warning ... If you press IN-STOP key, The channel map will disappear.

4. EDID

- * When do Set Assembly, EDID data must scan in DDC line.

Caution

- * Use the proper signal cable for EDID Download
 - Analog EDID : Pin3 exists
 - Digital EDID : Pin3 exists
- * Caution: - Never connect HDMI & D-sub Cable at the same time.
- Use the proper cables below for EDID Writing.

4.1. EDID Data

Item	Condition	Hex(16) Data
Manufacturer ID	GSM	1E6D
Version	Digital : 1	01
Revision	Digital : 3	03

4.2. Data (Refer to Product specification) 1> ANALOG (128Bytes)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	10	FF	FF	FF	FF	FF	FF	00	1E	6D	Ⓐ					
10		Ⓒ	01	03	01	46	27	76	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	5E	00	31	40	45	40	61	40	81	80	90	40
30	D1	C0	01	01	01	01	1A	36	80	A0	70	36	1F	40	30	20
40	35	00	E8	26	32	00	00	1A	DA	2F	78	E0	51	1A	25	40
50	58	98	14	00	E8	26	32	00	00	1A	00	00	00	FD	00	39
60	4B	1F	54	12	00	0A	20	20	20	20	20	20				
70															00	Ⓔ

2> HDMI (256Bytes)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	10	FF	FF	FF	FF	FF	FF	00	1E	6D	0A	0A	0A	0A	0A	0A
10	00	00	01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	00	31	40	45	40	61	40	81	80	90	40
30	A9	40	D1	C0	01	01	1A	36	80	A0	70	38	1F	40	30	20
40	35	00	E8	26	32	00	00	1A	1B	21	50	A0	51	00	1E	30
50	48	88	35	00	BC	86	21	00	00	1C	00	00	00	FD	00	39
60	4B	1F	54	12	00	0A	20	20	20	20	20	20	20	20	20	20
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	00	03	21	F1	4E	81	02	03	15	12	13	04	14	05	20	21
10	22	1F	10	23	09	07	07	83	01	00	00	65	03	0C	00	10
20	00	01	1D	00	80	51	00	1C	20	40	80	35	00	BC	88	21
30	00	00	1E	BC	0A	00	8A	20	E0	2D	10	10	3E	96	00	13
40	8E	21	00	00	18	02	3A	80	18	71	38	2D	40	58	2C	45
50	00	06	44	21	00	00	1E	01	1D	80	18	71	1C	16	20	58
60	2C	25	00	C4	8E	21	00	00	9E	4E	1F	00	80	51	00	1E
70	30	40	80	37	00	BC	88	21	00	00	18	00	00	00	00	00

* Detail EDID Options are below (a, b, c, d, e)

a Product ID

Model Name	Product ID	Product ID	
	Analog	Hex	EDID Table
37LF65	30154	75CA	CA75
37LY95	30156	75CC	CC75
42LF65	40123	9CBB	BB9C
42LY95	40125	9CBD	BD9C
47LF65	40127	9CBF	BF9C
47LY95	40129	9CC1	C19C
Model Name	Product ID	Product ID	
	Digital	Hex	EDID Table
37LF65	30155	75CB	CB75
37LY95	30157	75CD	CD75
42LF65	40124	9CBC	BC9C
42LY95	40126	9CBE	BE9C
47LF65	40128	9CC0	C09C
47LY95	40130	9CC2	C29C

b Serial No : Controlled on production line.

c Month, Year : Controlled on production line:
ex) Monthly : '09' -> '09'
Year : '2006' -> '10'

d Model Name(Hex) :

Model Name	Model Name(Hex)
37LF65	000000FC0033374C4636350A202020202020
37LY95	000000FC0033374C5939350A202020202020
42LF65	000000FC0034324C4636350A202020202020
42LY95	000000FC0034324C5939350A202020202020
47LF65	000000FC0034374C4636350A202020202020
47LY95	000000FC0034374C5939350A202020202020

e Checksum : Changeable by total EDID data.

* Before AV ADC Calibration, should be executed the Tool Option setting.

5. Method of Tool Option setting

5.1. Press ADJ Key in the Adjust remote.

5.2. Select "Tool Option1 and 2" by using ▲▼(CH+/-) key, and Press Number Key.

LD75A	
Cortez	1.22
STI5100	2.10
UTT	4 Hr
Tool Option 1	272
Tool Option 2	165
Area Option	50
OPTION1	14
OPTION2	2
OPTION3	3
OPTION4	192
System Control1	
System Control2	
System Control3	
BlkLine Detector	
Power-off History	
Panel Control	
Fan Control	
XSTUDIO Control	

5.3. Model Table.

Model name	Tool Option1	Tool Option2
37LF65	2320	1701
42LF65	2324	1701
47LF65	2328	1701
37LY95	2384	1701
42LY95	2391	1701
47LY95	2395	1701

5.4. After changing, push the EXIT Key.

6. ADC Calibration

* Before adjusting White-balance , the AV ADC should be done.

ADC	AV		Component	RGB-PC
MSPG925FS	PAL		Model:215 (720P)	
	INPUT SELECT	AV3	Pattern:65	Model: 3
	Model:202(PAL-BGDHI)		*720P/50Hz	(1024*768 60Hz)
	Pattern: 65		7 Color Bar	Pattern: 65
	*PAL 7 Color Bar			

* Caution : - System control RS-232 Host should be "PC" for adjustment.
- Before AV ADC Calibration, execute the "Panel size selection" (only LCD model)

6.1. Adjustment of AV

- Mandatory point : All models are adjusted PAL in AV mode

* Required Equipments

- Remote controller for adjustment.
- MSPG-925FS Pattern Generator (Which has Video Signal: 7 Color Bar Pattern shown in Fig. 1).
 - Model : 202 / Pattern : 65
 - PAL-BGDHI (composite signal)

6.1.1 Method of Auto AV Color Balance(PAL_BGDHI).

- 1) Input the Video Signal: 7 Color Bar signal into AV3.
- 2) Set the PSM to Dynamic mode in the Picture menu.



[Fig.1]

- 3) Press IN-START key on R/C for adjustment.



- 4) Press the ►(Vol.+) key to operate the set, then it becomes automatically.
- 5) After downloading complete, the 'OK' word appears.
- 6) Auto-RGB OK means the adjustment is completed.

6.2. Adjustment of Component

* Required Equipments

- Remote controller for adjustment.
- MSPG-925FS Pattern Generator. (Which has 720p/50Hz YPbPr output Pattern shown in Fig. 2)
 - > Model : 215 / Pattern : 65

6.2.1 Method of Auto Component Color Balance

- 1) Input the Component 720p/50Hz 7 Color Bar(MSPG-925FS model:215, pattern:65) signal into Component.
- 2) Set the PSM to Dynamic mode in the Picture menu.



[Fig.2]

- 3) Press the IN-START key on R/C for adjustment.



- 4) Press the ►(Vol.+) key to operate the set, then it becomes automatically.
- 5) After downloading complete, the 'OK' word appears.
- 6) Auto-RGB OK means the adjustment is completed.

6.3. Adjustment of RGB

* Required Equipments

- Remote controller for adjustment.
- MSPG-925FS Pattern Generator (Which has XGA [1024*768] 60Hz 1/2 black & white pattern shown in Fig. 3)

6.3.1 Method of Auto RGB Color Balance

- 1) Input the PC 1024x768 @ 60Hz 1/2 black & white pattern (MSPG-925FS, Model:3, Pattern:65) into RGB. (using D-sub to D-sub cable)
- 2) Set the PSM to Dynamic mode in the Picture menu.
- 3) Press the IN-START key on R/C for adjustment.



[Fig.3]

- 4) Press the ►(Vol.+) key to operate the set, then it becomes automatically.



- 5) After downloading complete, the 'OK' word appears.
- 6) Auto-RGB OK means adjustment is completed.

* Before adjusting White-balance, the AV ADC should be done.

7. White Balance

* Test Equipment

- Color Analyzer (CA-210, CA-100+ / CH.9)

-> When you adjust LCD color temperature, on Color analyzer (CA-210, CA-100+), you should use Channel 9 which is Matrix compensated (White, Red, Green, Blue revised) by CS-1000 and adjust in accordance with White balance adjustment coordinate which is specified on the next.

* Color temperature standards according to CSM and Module.

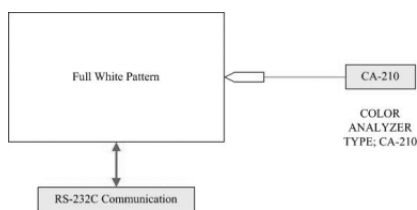
CSM	LCD
Cool	11,000k
Medium	9,300k
Warm	6,500k

* White balance adjustment coordinate and color temperature.

Cool	CS-1000	CA-210 (CH 9)	CA-100+ (CH 9)
X	0.276 ± 0.002	0.276 ± 0.002	0.276 ± 0.002
Y	0.283 ± 0.002	0.283 ± 0.002	0.283 ± 0.002
Temp	11000	1000	11000
Δuv	0.000	0.000	0.000
Medium	CS-1000	CS-1000	CS-1000
X	0.285 ± 0.002	0.285 ± 0.002	0.285 ± 0.002
Y	0.293 ± 0.002	0.293 ± 0.002	0.293 ± 0.002
Temp	9300	9300	9300
Δuv	0.000	0.000	0.000
Warm	CS-1000	CS-1000	CS-1000
X	0.313 ± 0.002	0.313 ± 0.002	0.313 ± 0.002
Y	0.329 ± 0.002	0.329 ± 0.002	0.329 ± 0.002
Temp	6500	6500	6500
Temp	0.003	0.003	0.003

- PC (for communication through RS-232C) -> UART Baud rate : 115200 bps

* Connecting picture of the measuring instrument (On Automatic control)
Inside PATTERN is used when W/B is controlled. Connect to auto controller or push control R/C IN-START -> Enter the mode of White-Balance, the pattern will come out.



[Fig.4] connecting picture (On Automatic Control)

* Auto-control interface and directions

- 1) Adjust in the place where the influx of light like floodlight around is blocked. (illumination is less than 10ux).
- 2) In case of PDP: Measure and adjust after sticking the Color Analyzer (CA-100+, CA210) to the side of the module.
In case of LCD: Adhere closely the Color Analyzer (CA210) to the module less than 10cm distance, keep it with the surface of the Module and Color Analyzer's Prove vertically.(80~100°).

3) Aging time

- After aging start, keep the power on (no suspension of power supply) and heat-run over 15 minutes.
- In case of PDP, keep white pattern using inside pattern.
- In case of LCD, using 'no signal' or 'full white pattern' or the others, check the back light on.

7.1 Auto white Balance

- 1) setup is done.
- 2) Test Equipment
Color Analyzer (CA210, CA-100+)
PC (for communication through RS-232C)
RS-232 Host ÷ PC
UART Baud rate ÷ 115200
Download ÷ Cortez
*** When press Power-on key, this point is automatically setuped. Pattern Generator (MSPG-925F)

7.2 Manual white Balance

- * One of R Gain / G Gain / B Gain should be kept on 80, and others are controlled lowering from 80
- 1) Press "power on" of the control R/C, set heat run to white by pressing ►, and heat run over 15 minutes (Set : RS-233 Host : PC, Baud Rate : 115200bps, Download: Cortez).
 - 2) Zero Calibrate CA-100+, and when controlling, stick the sensor to the center of LCD module surface.
 - 3) Double click In-start key on Controlling R/C and get in 'white balance'.
 - 4) Set test-pattern on and display inside pattern. Control is carried out on three color temperature, COOL, MEDIUM, WARM. (Control is carried out three times,)
 - 5) When the R/G/B GAIN is 80 on OSD, it is the FULL DYNAMIC Range of the Module. In order to control white balance without the saturation of FULL DYNAMIC Range and DATA, one of R Gain / G Gain / B Gain should be kept on 80, and other two is controlled lowering from 80.

* Color Temperature: Cool, Medium, Warm

1. When R GAIN is set to 80
- Control G GAIN and B GAIN by lowering from 80.
2. When B GAIN is set to 80
- Control R GAIN and G GAIN by lowering from 80.
3. When G GAIN is set to 80
- Control R GAIN and B GAIN by lowering from 192.

One of R Gain / G Gain / B Gain should be kept on 80, and adjust other two lower than 80.

(When R/G/B GAIN are all 80, it is the FULL DYNAMIC Range of Module)

8. Set Information(Serial No & Model name)

- 1) Setting up like bottom figure(After setting white balance, this is set)
(Setting: Press ADJ Key in the Adjust remocon.
Select "System Control 2" by using ▲/▼ (CH+/-) key, and press ■ (ENTER)
Using Adjust remocon, RS-232 Host & Baud Rate & Download value change)

LD75A	
Cortez	1.14
STi 5100	1.06
UTT	0 Hr.
Tool Option1	0
Tool Option2	185
Area Option	0
OPTION1	14
OPTION2	2
OPTION3	3
OPTION4	182
System Control1	
System Control2	
System Control3	
BklLine Detector	
Power-off History	
Panel Control	
Fan Control	
XSTUDIO Control	

System control2	
System	4-SYS
OverScan	5%
RS-232 Host	Gprobe
Baud rate	115200bps
Download	Cortez
AGC-L	0 140
Audio Delay	0
H Move	Off

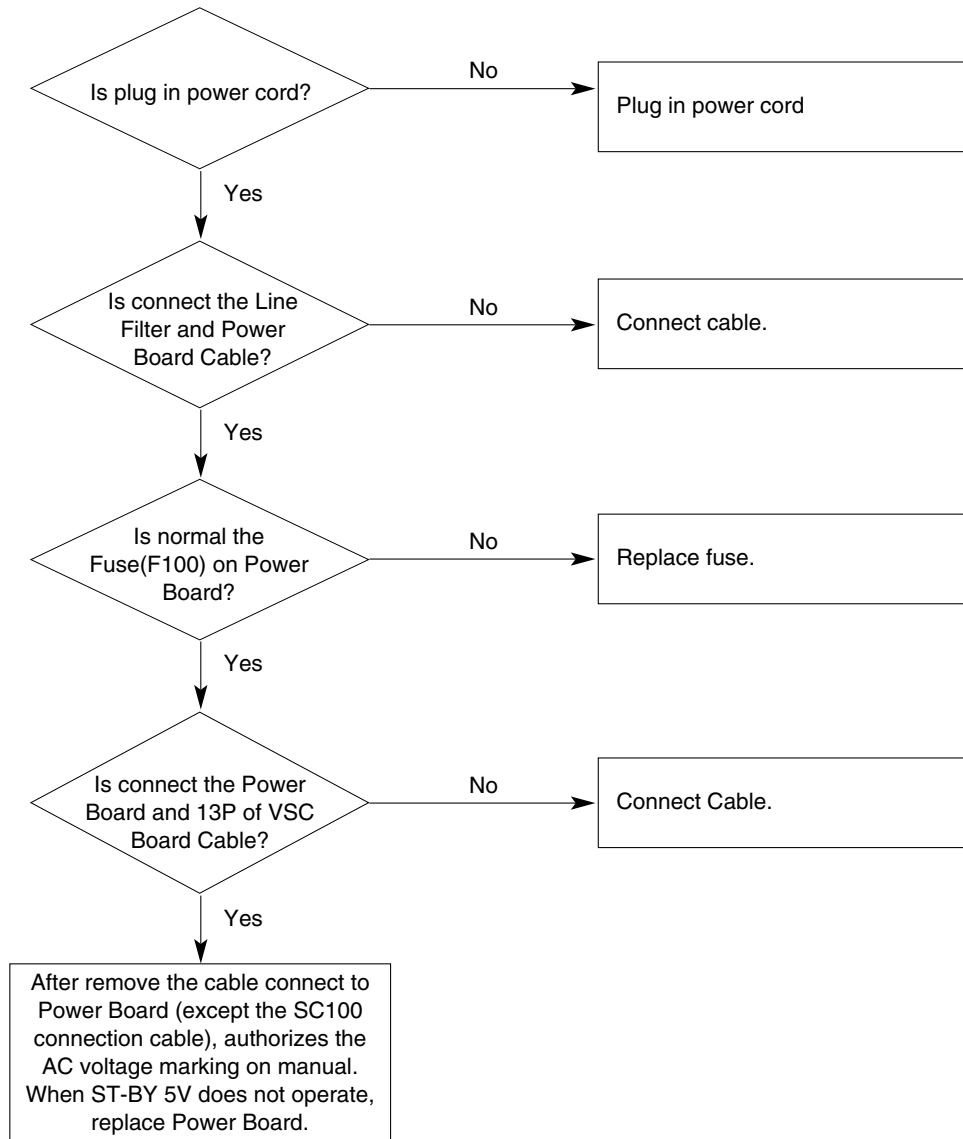
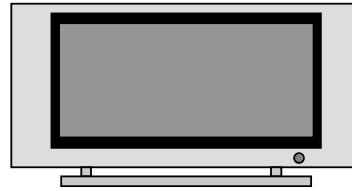
TROUBLESHOOTING

1. No power

(1) Symptom

- 1) Doesn't minute discharge at module.
- 2) Non does not come in into the front LED.

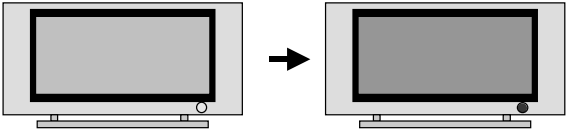
(2) Check follow



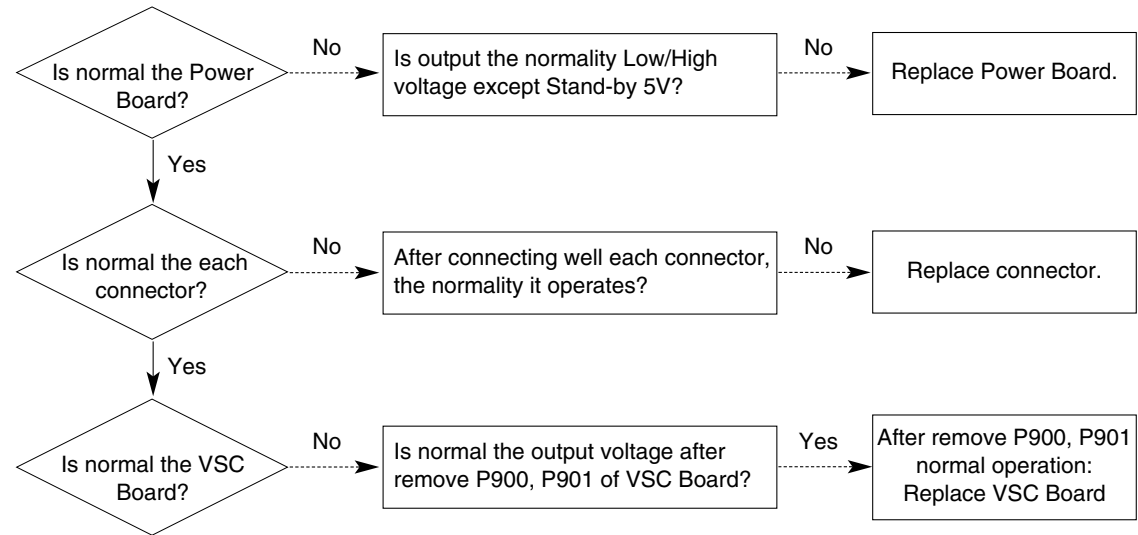
2. Protect mode

(1) Symptom

- 1) After once shining, it does not discharge minutely from module.
- 2) The relay falls.(The sound is audible "Click".)
- 3) It is converted with the color where the front LED is red from green.



(2) Check follow

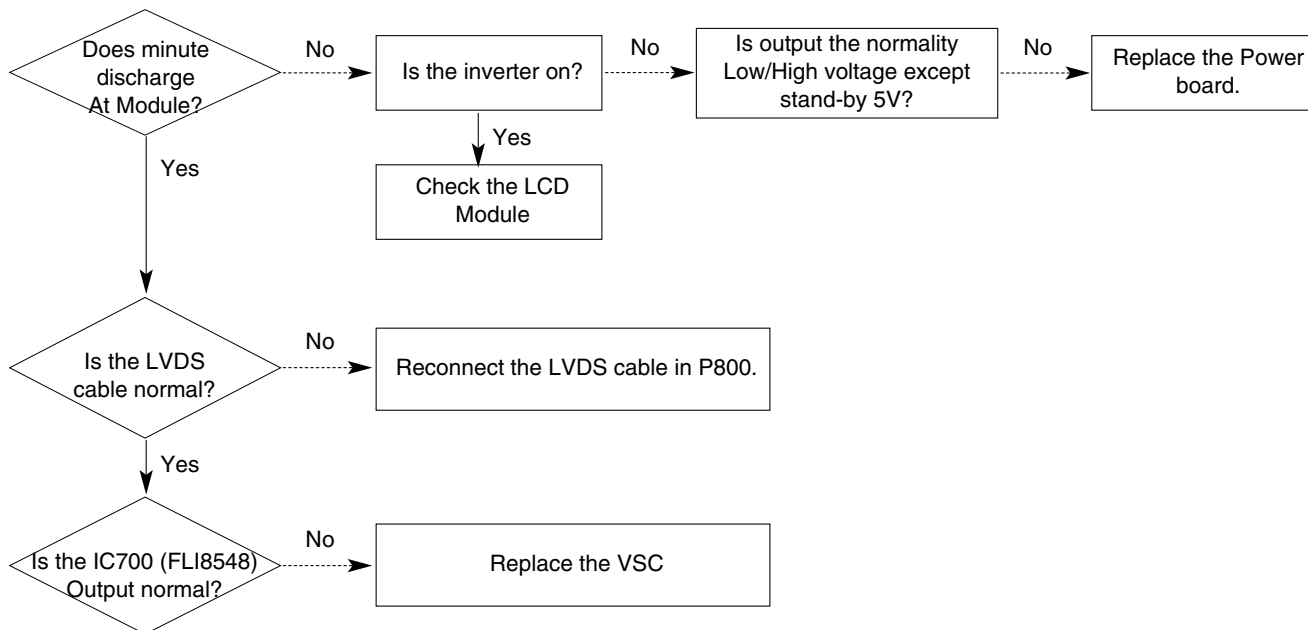
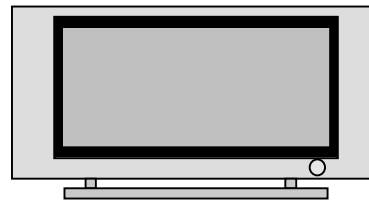


3. No Raster

(1) Symptom

- 1) No OSD and image occur at screen.
- 2) It maintains the condition where the front LED is green

(2) Check follow



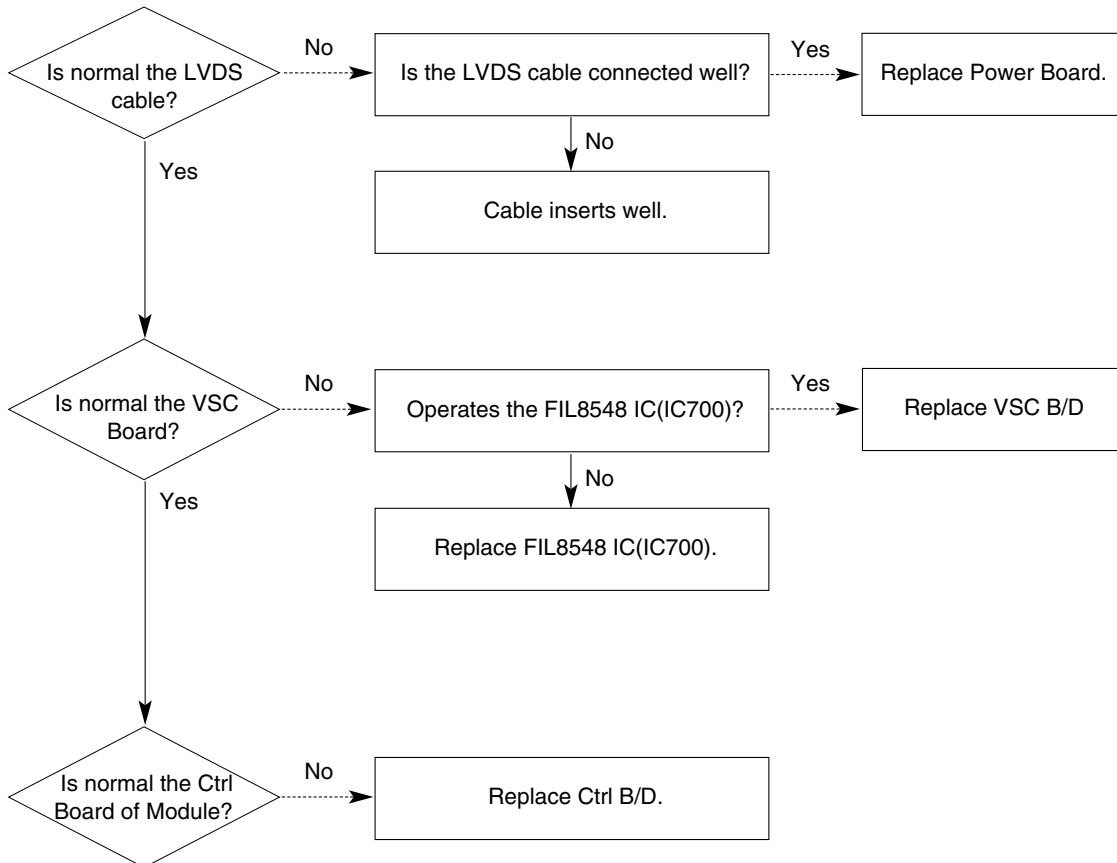
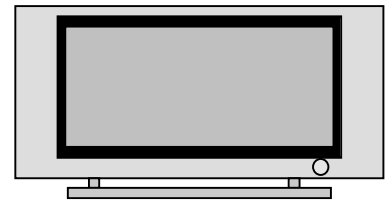
4. In case of occur strange screen into specific mode

1) In case of doesn't display the OSD

(1) Symptom

- 1) LED is green.
- 2) The minute discharge continuously becomes accomplished from module

(2) Check follow



2) In case of doesn't display the screen into specific mode

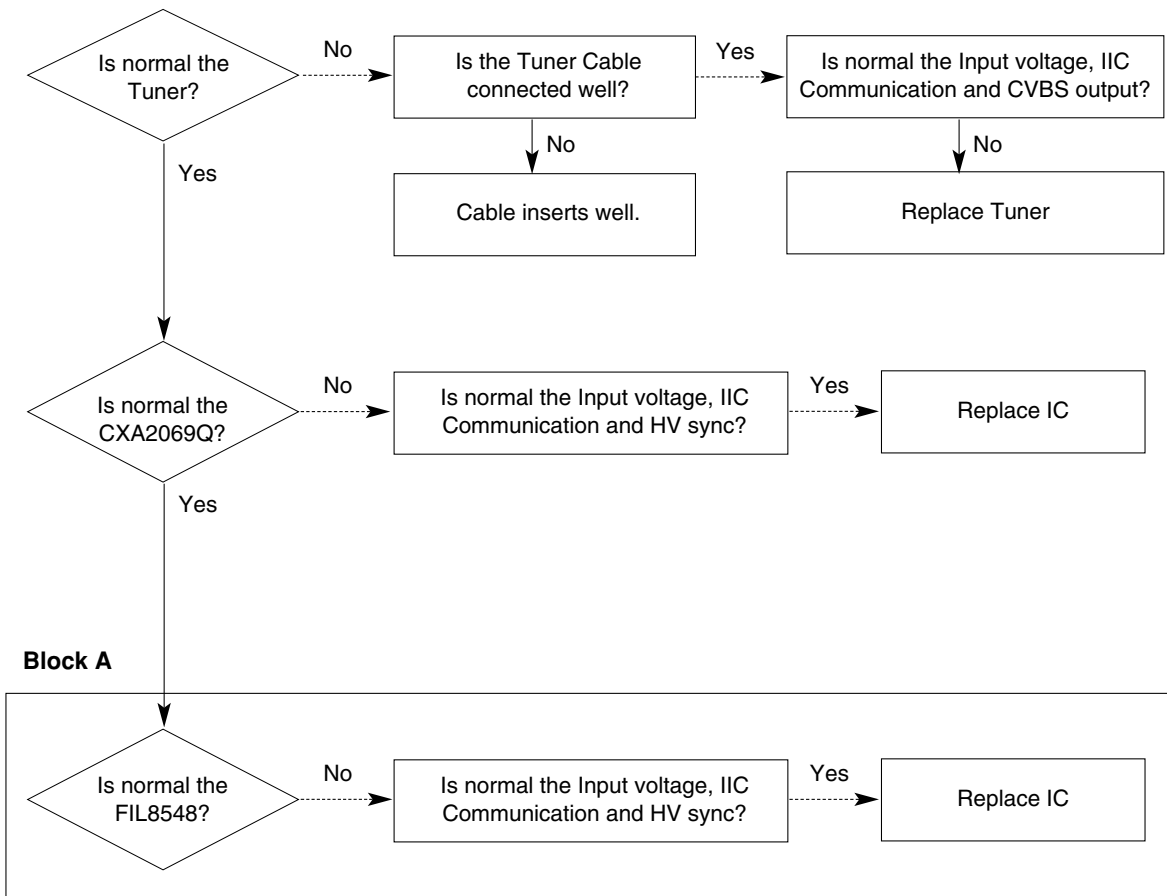
(1) Symptom

- The screen does not become the display from specific input mode (RF, AV, Component, RGB, DVI).

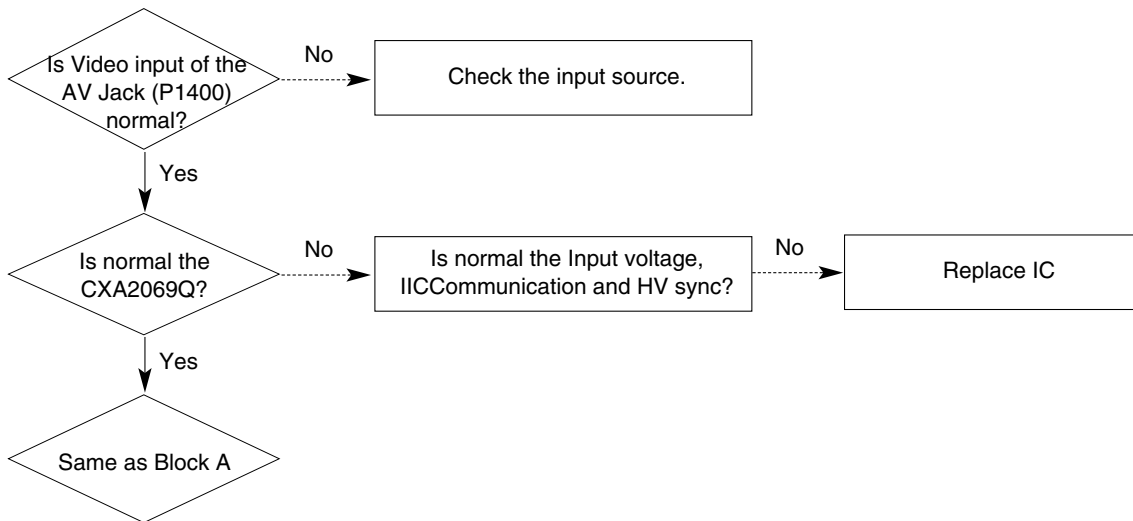
(2) Check follow

- Check the all input mode should become normality display.

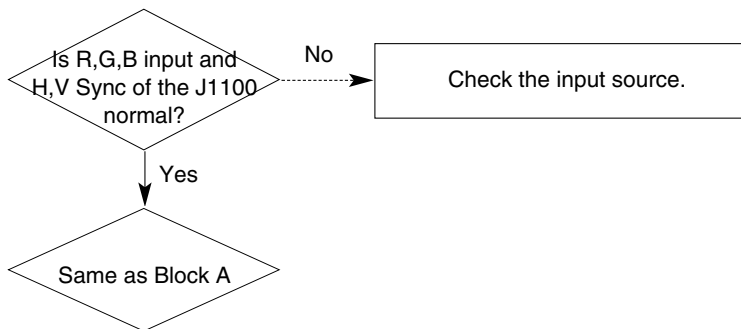
(3) In case of becomes unusual display from RF mode



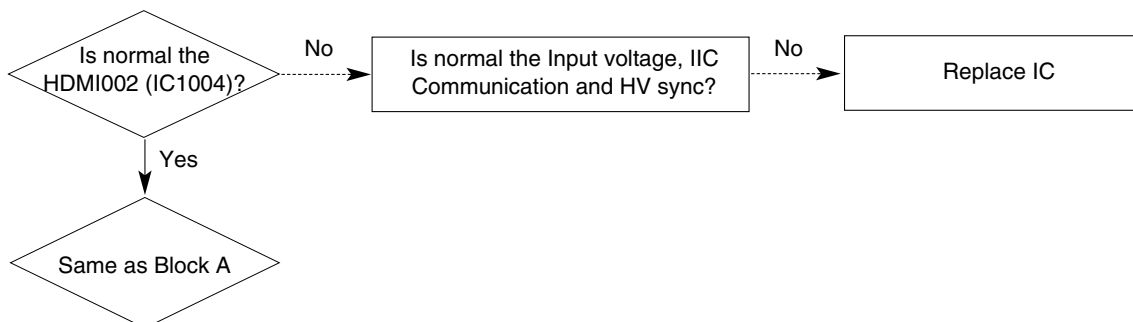
(4) In the case of becomes unusual display from side S-video/AV mode



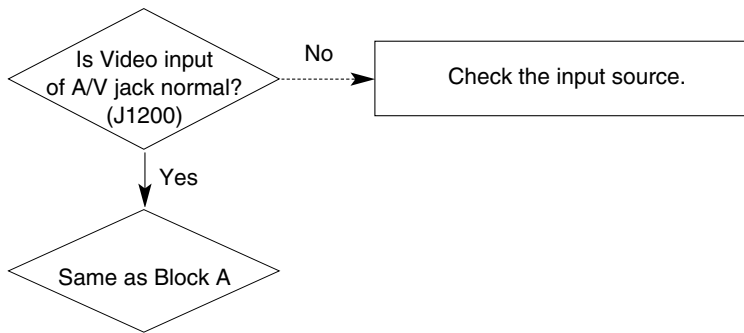
(5) In the case of becomes unusual display from Component, RGB mode



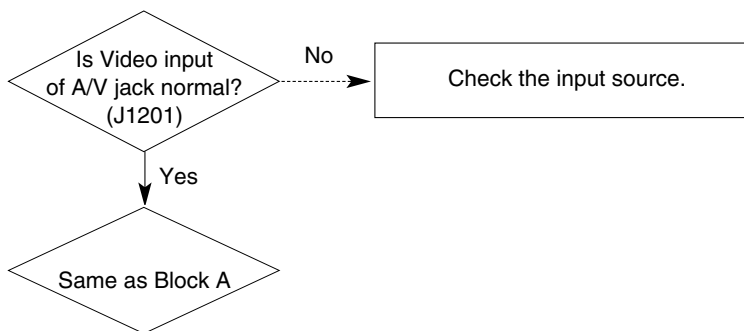
(6) In the case of becomes unusual display from HDMI mode



(7) In the case of becomes unusual display from SCART1 mode



(8) In the case of becomes unusual display from SCART2 mode



5. In case of no sound

(1) Symptom

- 1) LED is green.
- 2) Screen display but sound is not output

(2) Check follow

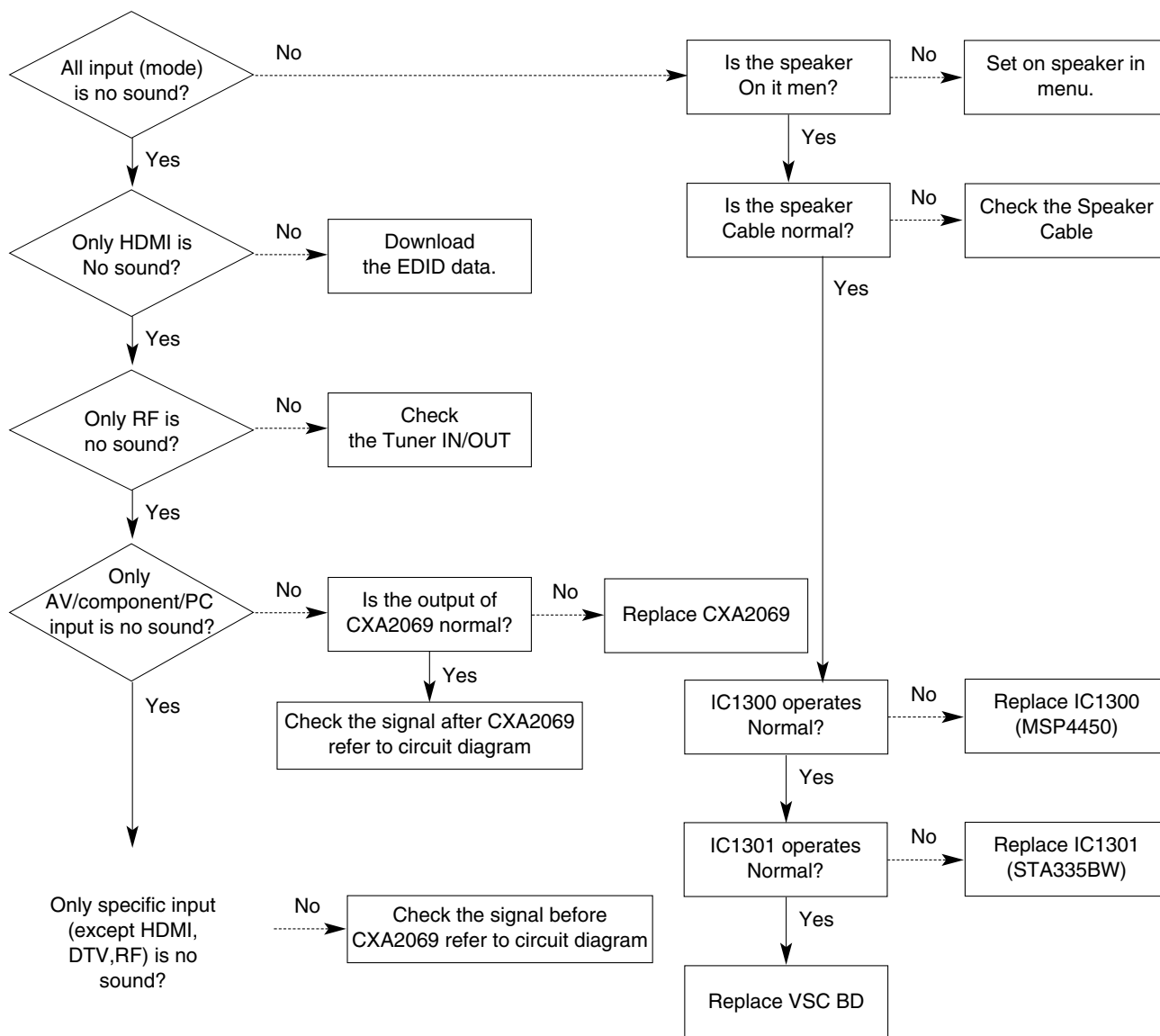
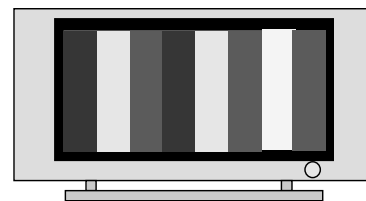
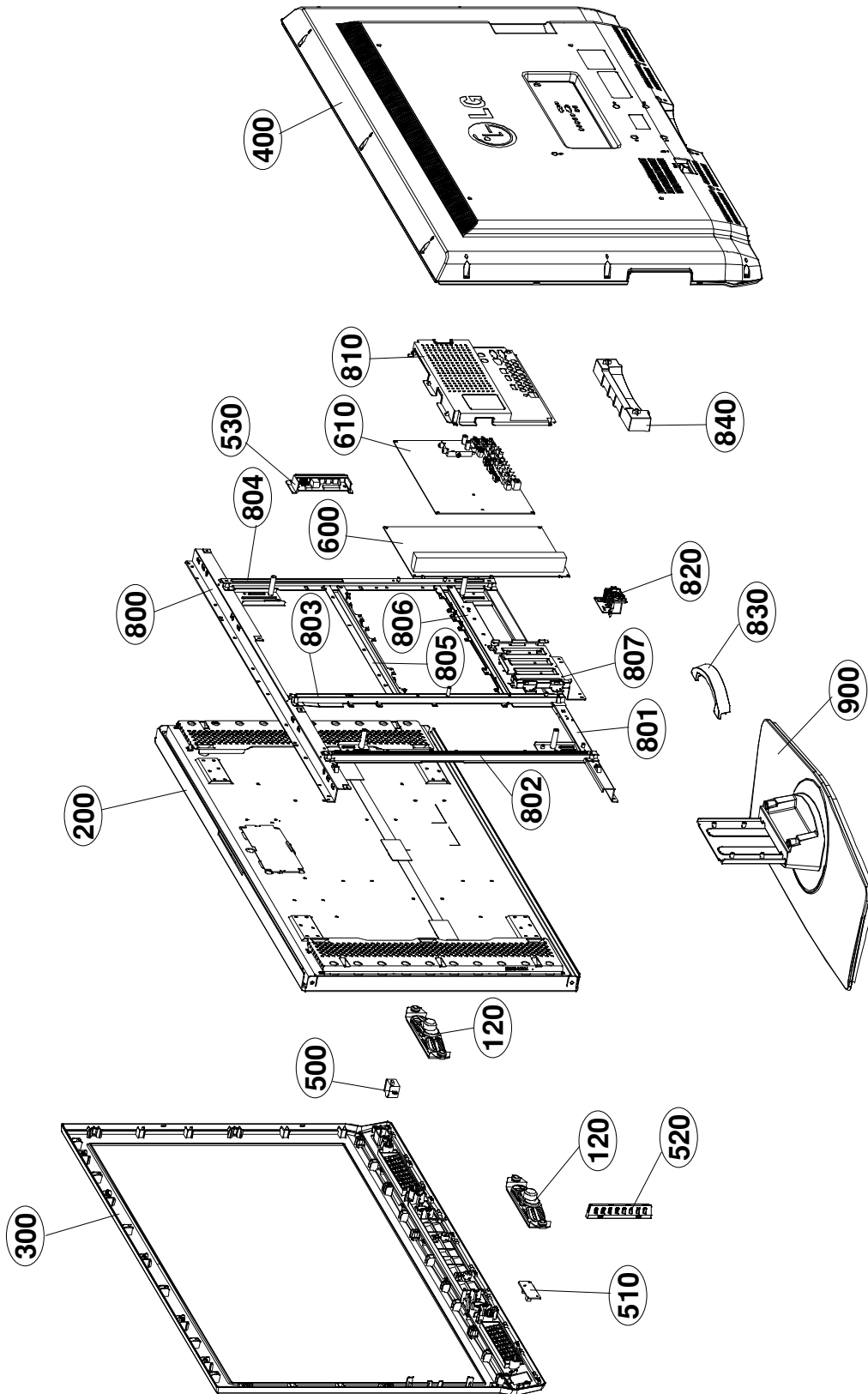


Diagram illustrating various signals entering a system:

- Sound Signal
- Video Signal
- Sound & Video Signal
- RX/TD Signal
- Etc. Signal



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.		PART NO.	DESCRIPTION
120		EAB33775101	Speaker,Full Range, EN1562C-6712 ND 10W 8OHM 82DB 100HZ 193.5 X 42 X 39.9 LUG KOREA TOPTONE
200	△	EAJ32112901	LCD,Module-TFT, LC370WU1-SL01 FULLHD 37INCH 1920X1080 500CD COLOR 72% 16/9 800:1 TSB P6 LG PHILIPS LCD
300	△	ACQ32333407	Cover Assembly, 37LB5DF-ZC LD75A 37" FRONT MODULE ASSY FOR DMS C/SKD
400	△	ACQ32333512	Cover Assembly, 37LC7D-ZA LD73A 37" BACK, C/SKD EUROPASS3 FOR EUROPE
500		EBR36524801	PCB Assembly,Sub, SUB T.T LA71A 42LY3DR-NA AKRLLH AC-Inlet Ass'y Total
510		EBR37275301	PCB Assembly, SUB PAKING LD75A 47LB5DF-ZC - Pre_amp for Europass_3 SKD Model
520		EBR37276301	PCB Assembly, SUB PAKING LD75A 47LB5DF-ZC - Control Key for Europass_3 SKD Model
530		EBR37626201	PCB Assembly, SUB PAKING LD75A 37LB5DF-ZC - Side_AV for Europass_3 SKD Model
600	△	EAY33064501	SMPS,AC/DC, LGLP 3237 HEP 90VTO264V 210W 47-63 UL/CSA/SEMKO HE/AT/YY 3
610		EBR37603401	PCB Assembly, MAIN PAKING LD75A 37LB5DF-ZC - Main Ass'y for Europass_3 SKD Model
800		MGJ32901202	Plate, PRESS EGI 1.2 FRAME SBHG-A 37LY3 METAL BAR TOP(C/SKD)
801		MGJ32901303	Plate, PRESS EGI 1.6 FRAME SBHG-A 37LY3/37LC4 METAL BAR BOTTOM (NONE DVR),C/SKD
802		MGJ32901403	Plate, PRESS EGI 1.2 FRAME SBHG-A 37LY3 METAL BAR RIGHT(C/SKD)
803		MGJ32901605	Plate, PRESS EGI 1.2 FRAME SBHG-A 37LY3 METAL BAR CENTER C/SKD
804		MGJ32901502	Plate, PRESS EGI 1.2 FRAME SBHG-A 37LY3 METAL BAR LEFT C/SKD
805		MGJ32901708	Plate, PRESS EGI 1.2 FRAME SBHG-A 37LC4 METAL BAR SIDE TOP(Europass3),C/SKD
806		MGJ32901808	Plate, PRESS EGI 1.2 FRAME SBHG-A 37LC4 METAL BAR SIDE BOTTOM (Europass3),C/SKD
807		MGJ32901902	Plate, PRESS EGI 1.2 FRAME SBHG-A 37LY3 METAL BAR SUPPORTER,C/SKD
810		MJH32521105	Supporter, PRESS EGI 0.5t GUIDE EGI METAL, REAR SHIELD (37LC4D-ZA),C/SKD
820		EAM36140902	Filter,AC Line, IF-N06AEWL2 1.3mH 250VAC 6A 0.1uF 1000pF ENEC/VDE/UL/CSA/EK 350/130mm HOUSING/RING BK DONG IL TECHNOLOGY LTD.
830		MAZ32930601	Bracket, MOLD ABS COVER 37LC4 LA71A ABS CABLE MANAGEMENT
840		MAZ34234901	Bracket, MOLD ABS STAND 37LC5 - ABS GUID
900	△	AAN31873504	Base Assembly, ASSY 37LB5DF-UC LA64F C/SKD STAND ASSY

REPLACEMENT PARTS LIST

DATE: 2007. 03. 19.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS					
C1	0CH3104K566	0805B104K500CT 100nF 10% 50V X7R	C1133	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C100	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G	C1134	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C100	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G	C1135	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C100	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G	C1136	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1003	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C114	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1004	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C115	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1005	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C116	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1006	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C117	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1007	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C118	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16M
C1008	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C119	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1009	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C120	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C101	0CE107SF6DC	VMV107M016S0ANE010 100uF 20% 16V	C1204	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V C0G
C101	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1205	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C101	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G	C1206	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -
C101	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 25V X7	C1207	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1010	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1208	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -
C102	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16M	C1209	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V C0G
C102	0CE107SF6DC	VMV107M016S0ANE010 100uF 20% 16V	C121	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C102	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1210	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V C0G
C103	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1211	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G
C103	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G	C1215	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G
C104	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R	C1216	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G
C105	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1217	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25M
C106	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C122	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1068	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C1225	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25M
C107	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C123	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C108	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1232	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C109	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R	C1234	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -
C110	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16M	C1235	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R -
C1100	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V C0G	C1236	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25M
C1101	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V C0G	C1237	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25M
C1104	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C1239	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1105	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C124	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1106	0CC120CK41A	C1608C0G1H120JT 12pF 5% 50V C0G	C1244	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1108	0CC120CK41A	C1608C0G1H120JT 12pF 5% 50V C0G	C1246	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1109	0CK4R7CKFDA	0603N4R7J500LT 4.7pF 5% 50V C0G	C1247	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C111	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C125	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1110	0CK4R7CKFDA	0603N4R7J500LT 4.7pF 5% 50V C0G	C126	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1111	0CK4R7CKFDA	0603N4R7J500LT 4.7pF 5% 50V C0G	C127	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1116	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C128	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1119	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C129	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C112	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C130	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1120	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1300	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7R -
C1121	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1301	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1123	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1302	0CE108EH618	KMG5.0TP25VB1000M 1000uF 20% 25V
C1125	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1303	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V X7R -
C1128	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1304	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C113	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1305	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1132	0CC681CK41A	C1608C0G1H681JT 680pF 5% 50V C0G	C1306	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V X7R
			C1307	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C1308	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5	C1367	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1309	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20% 50V 1	C1368	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C131	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1369	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1310	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20% 50V 1	C137	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1311	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1370	0CF4741L430	PCMT365 76474 470nF 5% 63V MPE -
C1312	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C1371	0CF4741L430	PCMT365 76474 470nF 5% 63V MPE -
C1313	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C1373	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1314	0CC030CK01A	0603N3R0C500LT 3pF 0.25PF 50V C0	C138	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1315	0CC030CK01A	0603N3R0C500LT 3pF 0.25PF 50V C0	C139	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1316	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C140	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1317	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G	C1400	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20% 50V 1
C1318	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0G	C1401	0CE475WK6DC	MVK5.0TP50VC4.7M 4.7uF 20% 50V 1
C1319	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20% 50V 1	C1402	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5
C132	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1403	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V Y5
C1320	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C1404	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1321	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C1407	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C1322	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C1408	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C1325	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C1409	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1326	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C141	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1327	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1410	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 80M
C1329	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C1411	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C133	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1412	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1330	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C1413	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1332	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C1418	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1333	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G	C1419	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1335	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C142	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1338	0CK471CK56A	C1608X7R1H471KT 470pF 10% 50V X7	C1420	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5
C134	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1421	0CC820CK41A	C1608C0G1H820JT 82pF 5% 50V C0G
C1340	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C1422	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1341	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20% 50V 1	C1423	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1342	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1426	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1343	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C1428	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5
C1344	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25M	C1429	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1345	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25V 25M	C143	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1346	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C1439	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1347	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	C144	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C135	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1440	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5
C1350	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16M	C1441	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1351	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1442	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5
C1352	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1444	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1353	0CK222CK56A	0603B222K500CT 2.2nF 10% 50V X7R	C1445	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5
C1354	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G -	C1447	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1355	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1448	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2
C1356	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G	C1449	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5
C1357	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V C0G	C145	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1358	0CH2122K516	0805B122K500CT 1.2nF 10% 50V Y5P	C1450	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1359	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C1451	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C136	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C1452	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V C0G
C1360	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G	C1453	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V C0G
C1361	0CC331CK41A	C1608C0G1H331JT 330pF 5% 50V C0G	C146	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1362	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C147	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1363	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C148	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1364	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C149	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1365	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C150	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C1366	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C151	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C152	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C196	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V C0G
C153	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C197	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+80%
C154	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C198	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+80%
C155	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C199	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C156	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C200	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C157	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C201	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G
C158	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C202	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G
C159	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C203	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C160	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C204	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C161	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C206	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C162	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C207	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C163	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C209	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R
C164	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C212	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R
C165	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C213	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R
C166	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R	C216	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R
C167	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R	C218	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C168	0CK106EF56A	C3216X7R1C106KT 10uF 10% 16V X7R	C219	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C169	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V C0G	C220	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C170	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G	C221	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1700	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C222	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1701	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R	C224	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1702	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C226	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C1703	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C227	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C1704	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+80%	C228	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1705	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C229	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1706	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C230	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1707	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C231	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1708	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C232	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C1709	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C233	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C171	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C234	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C1710	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C235	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C172	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C236	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C173	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C237	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C174	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C238	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C175	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C239	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C176	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C240	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C177	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C241	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C178	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C242	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C179	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C243	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C180	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C301	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C181	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16M	C302	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C182	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R	C410	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C183	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C412	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16M
C184	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C413	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C185	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C414	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 16M
C186	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C415	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C187	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C429	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C188	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C430	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C189	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C515	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C190	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C516	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C191	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C517	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 8
C192	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C518	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C193	0CK822CK46A	0603B822J500CT 8.2nF 10% 50V X7R	C519	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C194	0CK822CK46A	0603B822J500CT 8.2nF 10% 50V X7R	C520	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C195	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G	C521	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C522	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C702	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C523	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C703	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C524	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V 80	C704	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C525	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C705	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C526	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C706	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C527	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C707	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C528	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 8	C708	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C529	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C709	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C530	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C710	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C531	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C711	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C532	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C712	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C533	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C713	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C534	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 8	C714	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C535	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R	C715	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C537	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C716	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C539	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C717	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C540	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R	C718	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C548	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C720	0CC120CK41A	C1608C0G1H120JT 12pF 5% 50V C0G
C549	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C721	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C550	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C722	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C551	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C723	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C553	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C724	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C554	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R	C725	0CC200CK41A	C1608C0G1H200JT 20pF 5% 50V C0G
C555	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V X7R	C726	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C601	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G	C727	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C602	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C728	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C603	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C729	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C604	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G	C730	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C605	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C732	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C606	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C733	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C608	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C0G	C734	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C609	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C736	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C610	0CC271CK41A	C1608C0G1H271JT 270pF 5% 50V C0G	C737	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C611	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C738	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C612	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 80M	C739	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C613	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C740	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C615	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C741	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C616	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C742	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C623	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G	C743	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C624	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G	C744	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C625	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C745	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C626	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C746	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C627	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R	C747	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C630	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C748	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+80%
C633	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+80%	C749	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C635	0CK472CK56A	0603B472K500CT 4.7nF 10% 50V X7R	C750	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C636	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C751	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C637	0CK472CK56A	0603B472K500CT 4.7nF 10% 50V X7R	C752	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C638	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C753	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C639	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C754	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C640	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	C755	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C641	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G	C756	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C642	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V C0G	C757	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C700	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C758	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M
C701	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C759	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C760	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C824	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C761	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C826	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C762	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C828	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C763	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C830	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C764	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C831	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C765	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 80M	C834	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C766	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C835	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C767	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C836	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C768	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C838	0CK225DH94A	C2012Y5V225ZF 2.2uF -20TO+80% 2
C769	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C840	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C770	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C841	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C771	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C844	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C772	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C846	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C773	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C847	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C774	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R	C850	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C775	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C851	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V Y5
C776	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C852	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C777	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C853	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C778	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C854	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C779	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C855	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C780	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C856	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C781	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C857	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C782	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C858	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C783	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C859	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C784	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C860	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C785	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C861	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C786	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C862	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C787	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C863	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C788	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C864	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C789	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C865	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C790	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C866	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C791	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R	C867	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C792	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C868	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C793	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C869	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C794	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C870	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C795	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V C0G	C871	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C796	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C872	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C797	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 80M	C873	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C798	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C874	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C799	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C875	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C800	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C876	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C801	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C877	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C802	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C878	0CK104BF56A	C1005X7R104KET 100nF 10% 16V X7R
C803	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C900	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C805	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C901	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C806	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C903	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 80M
C807	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C905	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C810	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C907	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8
C812	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C908	0CK104CF56A	0603B104K160CT 100nF 10% 16V X7R
C813	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C909	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C814	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C910	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C815	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C911	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R
C817	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	C912	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 80M
C818	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	C914	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R
C822	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16V 30M	C915	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C917	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1113	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C924	0CE107WF6DC	MVK8.0TP25VC100M 100uF 20% 25V 1	ZD1114	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C925	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 8	ZD1201	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C928	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 8	ZD1202	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C929	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V 8	ZD1203	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C931	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1211	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C932	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1212	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C933	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1218	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C934	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1219	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C935	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1220	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C937	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	ZD1221	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C954	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V 80	ZD1222	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C956	0CK474CH94A	0603F474Z250CT 470nF -20TO+80% 2	ZD1223	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C957	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	ZD1224	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C958	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	ZD1226	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W
C959	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	ZD1228	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C960	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1229	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W
C961	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ZD1300	0DZRM00248A	RLZ8.2B 8.2V 7.78TO8.19V 8OHM 50
C962	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	ICs		
C969	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	IC100	0IPRP00703B	STI5100GUC 3.3V 5u 27M PBGA TR 3
C970	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	IC1002	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BI
C971	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	IC1003	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BI
C972	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	IC1004	EAN33595101	STHDM1002A 3.135TO3.465 9NSEC 9N
C973	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	IC102	0ISTLPH026A	74LVC14APW 1.2TO3.6V 0.01mA SCHM
C974	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	IC103	0IMP242560A	24LC256T-I/SM 256KBIT 256KX8BIT
C975	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V 8	IC1100	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8BI
C977	0CK104CK56A	0603B104K500CT 100nF 10% 50V X7R	IC1101	0IPH741400E	74HC14D 2TO6V 0.002mA SCHMITT TR
C980	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7R	IC1102	0IPRP00009A	ICL3232CBNZ 3VTO5.5V - SSOP R/TP
C981	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 80M	IC1104	0ITO741570C	TC74LCX157FT 2TO3.6V 0.01mA MULT
ZD1102	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V C0G	IC1105	0IMCRFA018A	NC7SB3157P6X_NL 1.65TO5.5V 0.001
ZD1103	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V C0G	IC1106	0IMCRFA018A	NC7SB3157P6X_NL 1.65TO5.5V 0.001
DIODEs			IC1300	0IMCRMN028C	MSP4450K-QA-D6 7.6TO8.7V_4.75TO5
D100	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC1301	0ILNR00261C	STA335BW 5TO26V 0 10% 20W 0W 80d
D1000	0DD184009AA	KDS184 KDS184 TP KEC - 85V - - -	IC1400	0ISO206900A	CXA2069Q 8.5TO9.5V - - 1.3W QFP
D1001	0DD184009AA	KDS184 KDS184 TP KEC - 85V - - -	IC200	0IPMG78391A	SC2595STR 2.3TO5V 0 0W SOIC R/TP
D101	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC202	0IMMRIH038B	HYB25D(C)256160CE-5 256MBIT 4MX1
D102	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC300	0ISTLPH003B	74LVC541APW 1.2TO3.6V 0.01mA BUF
D103	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC301	0IMCRFA013A	74LCX244MTC 2TO3.6V 0.01mA BUFEE
D104	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC404	0ISTLPH026A	74LVC14APW 1.2TO3.6V 0.01mA SCHM
D900	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 1	IC410	0ITO741570C	TC74LCX157FT 2TO3.6V 0.01mA MULT
D902	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 1	IC500	0IMCRSJ001A	SC1565IST-1.8 2.2TO5.5V 1.8V 0W
D903	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 1	IC501	0IPMG00027A	SC156515M-1.8TR 2.2TO5.5V 1.8V 0
D904	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 1	IC502	0IMCRSJ001B	SC1565IST-2.5TR 2.2TO5V 2.5V 0W
D905	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC 1	IC503	0IPMGKE030A	KIA78R05F 6TO12V 5V 8W DPAK R/TP
D906	0DD100009AM	EU1ZV(1) 200V 2.5V 10UA 15A 400N	IC504	0IPMGKE031A	KIA78R33F 4TO10V 3.3V 8W DPAK R/
ZD1100	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC505	0IPMGKE031A	KIA78R33F 4TO10V 3.3V 8W DPAK R/
ZD1101	EAH33946001	CDS3C05GTA 5.6V 6.4V 19V 1.9A 1W	IC506	0ISTL00029A	MC33078DR2G +-5TO+-18V 2mV 0.002
ZD1104	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC600	0IPRP00602A	TPS2010ADR 2.7TO5.5V 8.6MSEC 3.4
ZD1105	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC700	EAN33595901	"FLI8548H-LF-BE 300MVTO3.6V,300MV"
ZD1106	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC701	0IMP242560A	24LC256T-I/SM 256KBIT 256KX8BIT
ZD1107	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC702	EAN34099701	M2404HEPROM 4KBIT 512 x 8bit 2.5
ZD1108	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC800	EAN31729201	HY5DU561622ETP-4 256MBIT 16M * 1
ZD1109	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W	IC801	EAN31729201	HY5DU561622ETP-4 256MBIT 16M * 1
ZD1112	EAH33945901	CDS3C30GTH 30V 50V 120V 1.9A 1W			

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
IC804	0IPMG78391A	SC2595STR 2.3TO5V 0 0W SOIC R/TP	L607	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
IC900	0IPMGFA061A	FAN1587AD33X 4.8TO10.3V 3.3V 0W	L700	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
IC901	0IPMGFA061A	FAN1587AD33X 4.8TO10.3V 3.3V 0W	L701	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
IC902	0IPMG00107A	AZ1117H-2.5TR/E1 15V 2.5V 0W SOT	L703	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
IC903	0IPMG00027A	SC156515M-1.8TR 2.2TO5.5V 1.8V 0	L704	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
IC904	EAN32662801	KA7809ERTM 35V to 40V 9V 1W DPAK	L705	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
FILTERs & INDUCTORs			L706	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L100	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L707	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L101	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L800	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L102	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L801	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L103	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L900	6210TCE001X	"Filter,BeadHU-1H4532-121JT 120OH"
L104	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L901	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"
L105	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L902	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"
L106	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L903	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"
L108	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L904	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"
L1101	6210TCE001L	"Filter,BeadHB-1T2012-102JT 1000O"	L905	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"
L1102	6210TCE001L	"Filter,BeadHB-1T2012-102JT 1000O"	L906	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"
L1104	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L907	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L1105	6210TCE001P	"Filter,BeadHB-1S2012-121JT(H:1mm)"	L908	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"
L1106	6210TCE001P	"Filter,BeadHB-1S2012-121JT(H:1mm)"	L909	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L1107	6210TCE001P	"Filter,BeadHB-1S2012-121JT(H:1mm)"	L911	6210TCE001X	"Filter,BeadHU-1H4532-121JT 120OH"
L1108	6210TCE001P	"Filter,BeadHB-1S2012-121JT(H:1mm)"	L912	6210TCE001X	"Filter,BeadHU-1H4532-121JT 120OH"
L1109	6210TCE001P	"Filter,BeadHB-1S2012-121JT(H:1mm)"	L913	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L1205	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L918	6210TCE001X	"Filter,BeadHU-1H4532-121JT 120OH"
L1206	6210TCE001Z	"Filter,BeadHH-1M2012-600JT 600OHM"	L919	6210TCE001X	"Filter,BeadHU-1H4532-121JT 120OH"
L1207	6210TCE001Z	"Filter,BeadHH-1M2012-600JT 600OHM"	L923	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L1208	6210TCE001Z	"Filter,BeadHH-1M2012-600JT 600OHM"	L925	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"
L1211	6210TCE001L	"Filter,BeadHB-1T2012-102JT 1000O"	L100	0LC2000005K	"Inductor,Multilayer,ChipFI-D2012"
L1212	6210TCE001L	"Filter,BeadHB-1T2012-102JT 1000O"	L109	0LC1032101A	"Inductor,Multilayer,ChipFI-C3216"
L1215	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1209	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1300	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1210	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1301	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1213	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1302	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1214	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1303	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1216	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1309	6210TCE001S	"Filter,BeadHU-1M2012-121 120OHM"	L1217	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1310	6210TCE001S	"Filter,BeadHU-1M2012-121 120OHM"	L1218	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1311	6210TCE001S	"Filter,BeadHU-1M2012-121 120OHM"	L1219	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1312	6210TCE001S	"Filter,BeadHU-1M2012-121 120OHM"	L1220	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1314	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1221	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1315	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1222	0LCML00020G	"Inductor,Multilayer,ChipMLI-2012"
L1401	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1304	0LCTO00019A	"Inductor,Wire Wound,ChipD75C-646"
L1402	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1305	0LCTO00019A	"Inductor,Wire Wound,ChipD75C-646"
L1403	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	L1306	0LCTO00019A	"Inductor,Wire Wound,ChipD75C-646"
L1404	EAM37276902	"Filter,LCRLCF20P101-TM LPF(EMI)"	L1307	0LCTO00019A	"Inductor,Wire Wound,ChipD75C-646"
L1405	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"	L600	0LCTA00003A	"Inductor,Wire Wound,ChipLEMC3225"
L1406	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"	L601	0LCTA00003A	"Inductor,Wire Wound,ChipLEMC3225"
L1407	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"	L604	0LC0233002A	"Inductor,Multilayer,ChipFI-B2012"
L1408	EAM37276902	"Filter,LCRLCF20P101-TM LPF(EMI)"	L605	0LCTA00003A	"Inductor,Wire Wound,ChipLEMC3225"
L1409	EAM37276902	"Filter,LCRLCF20P101-TM LPF(EMI)"	TRANSISTORs & FETs		
L1410	EAM37574201	"Filter,LCRLC-2012-250JT LPF(EMI)"	Q100	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"
L1412	6210TCE001E	"Filter,BeadHB-1M2012-800JT(H:1mm)"	Q101	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"
L1413	6210TCE001E	"Filter,BeadHB-1M2012-800JT(H:1mm)"	Q1100	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"
L400	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"	Q1200	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"
L606	6210TCE001G	"Filter,BeadHH-1M3216-501JT 500OH"			

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
Q1201	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR202	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W 4 SM
Q1202	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR203	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W 4 SM
Q1203	0TR102009AM	"TR,BipolarKRA102S PNP -30V 0V -5"	AR204	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W 4 SM
Q1204	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR205	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W 4 SM
Q1300	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR206	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W 4 SM
Q1301	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR700	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q1302	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR701	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q1303	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR702	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q1304	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR703	0RJ0222C692	MNR04 M0APJ 220 220HM 5% 1/16W 1
Q1305	0TR102009AM	"TR,BipolarKRA102S PNP -30V 0V -5"	AR704	0RJ0222C692	MNR04 M0APJ 220 220HM 5% 1/16W 1
Q1400	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR706	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q1401	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR707	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q1402	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR708	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q1403	0TR150400BA	"TR,Bipolar2SA1504S(ASY) PNP -5V"	AR709	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q1404	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR710	0RZZH033273	MNR04M0ABJ330 330HM 5% 1/16W 4 S
Q400	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR800	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q401	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR801	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q402	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR802	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q500	0TR102009AM	"TR,BipolarKRA102S PNP -30V 0V -5"	AR803	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q502	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR804	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q503	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR805	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q504	0TR150400BA	"TR,Bipolar2SA1504S(ASY) PNP -5V"	AR806	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q602	0TR150400BA	"TR,Bipolar2SA1504S(ASY) PNP -5V"	AR807	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q603	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR808	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q604	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	AR809	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q606	0TR150400BA	"TR,Bipolar2SA1504S(ASY) PNP -5V"	AR810	EBC32260601	MNR04M0APJ101 1000HM 5% 1/16W 4
Q607	0TR150400BA	"TR,Bipolar2SA1504S(ASY) PNP -5V"	R100	0RJ0000D677	MCR03EZPJ000 00HM 5% 1/10W 1608
Q608	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R100	0RJ1000D677	MCR03EZPJ101 1000HM 5% 1/10W 160
Q609	0TR150400BA	"TR,Bipolar2SA1504S(ASY) PNP -5V"	R101	0RJ0752D677	MCR03EZPJ750 750HM 5% 1/10W 1608
Q800	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R101	0RH1100D622	MCR10EZHJ111 1100HM 5% 1/8W 2012
Q900	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R101	0RJ0000D677	MCR03EZPJ000 00HM 5% 1/10W 1608
Q901	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R1016	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W 1608
Q902	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R1017	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W 1608
Q903	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R1018	0RJ6800D677	MCR03EZPJ681 6800HM 5% 1/10W 160
Q904	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R1019	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W 1608
Q905	0TR387500AA	"TR,Bipolar2SC3875S(ALY) NPN 5V 6"	R102	0RH1101D622	MCR10EZHJ112 1.1KOHM 5% 1/8W 201
IC803	EBK32753101	FETSI4925BDY P-CHANNEL MOSFET -3	R102	0RJ4700D677	MCR03EZPJ471 4700HM 5% 1/10W 160
Q1001	0TR830009BA	FETBSS83 N-CHANNEL MOSFET 10V 2	R102	0RJ0472D677	MCR03EZPJ470 470HM 5% 1/10W 1608
RESISTORs			R102	0RJ0000D677	MCR03EZPJ000 00HM 5% 1/10W 1608
AR100	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R1020	0RJ6800D677	MCR03EZPJ681 6800HM 5% 1/10W 160
AR101	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R1021	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W 1608
AR102	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R1022	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W 1608
AR103	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R1023	0RJ0222D677	MCR03EZPJ220 220HM 5% 1/10W 1608
AR104	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R103	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8W 201
AR105	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R103	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16
AR106	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R103	0RJ0472D677	MCR03EZPJ470 470HM 5% 1/10W 1608
AR107	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R103	0RJ2002D677	MCR03EZPJ203. 20KOHM 5% 1/10W 16
AR108	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R1038	0RJ0000D677	MCR03EZPJ000 00HM 5% 1/10W 1608
AR109	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R1039	0RJ0000D677	MCR03EZPJ000 00HM 5% 1/10W 1608
AR110	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R104	0RH9101D622	MCR10EZHJ912 9.1KOHM 5% 1/8W 201
AR111	0RJ0472C687	RCA86TRJ47R0 470HM 5% 1/16W 4 SM	R104	0RJ4700D677	MCR03EZPJ471 4700HM 5% 1/10W 160
AR200	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W 4 SM	R104	0RJ1302D677	MCR03EZPJ133 13KOHM 5% 1/10W 160
AR201	0RJ0222C687	RCA86TRJ22R0 220HM 5% 1/16W 4 SM	R1040	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 160
			R1041	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 160
			R1042	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 160

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1043	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 160	R1128	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1044	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 16	R1129	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1049	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R113	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R105	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16	R1130	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R105	0RH1100D622	MCR10EZHJ111 110OHM 5% 1/8W 2012	R1131	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R105	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R1133	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R105	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1134	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1050	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1135	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R1052	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1136	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1053	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1137	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1056	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R1139	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1057	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R114	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1058	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 16	R1140	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1059	0RJ2702D677	MCR03EZPJ273 27KOHM 5% 1/10W 160	R1141	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R106	0RH1101D622	MCR10EZHJ112 1.1KOHM 5% 1/8W 201	R1148	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1150	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1151	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R106	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1152	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1060	0RJ3302D677	MCR03EZPJ333 33KOHM 5% 1/10W 160	R1157	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1061	0RJ3302D677	MCR03EZPJ333 33KOHM 5% 1/10W 160	R1158	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1065	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1161	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R107	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8W 201	R1162	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R107	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R1164	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R108	0RH9101D622	MCR10EZHJ912 9.1KOHM 5% 1/8W 201	R1165	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R108	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1166	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 16
R109	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1171	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R109	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R1185	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R110	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1186	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R110	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R119	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R110	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R120	0RJ1802D677	MCR03EZPJ183 18KOHM 5% 1/10W 160
R1101	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R1200	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R1102	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1201	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1103	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R1202	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W 1608
R1104	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1203	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16
R1107	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R1204	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 160
R1108	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R1205	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16
R111	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W 16	R1207	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16
R111	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R1209	0RJ3002D677	MCR03EZPJ303 30KOHM 5% 1/10W 160
R1113	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R121	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 160
R1114	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16	R1210	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16
R1115	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R1211	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16
R1116	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16	R1212	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16
R1117	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608	R1213	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16
R1118	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1214	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R1119	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1215	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 1608
R112	0RJ2002D677	MCR03EZPJ203. 20KOHM 5% 1/10W 16	R1216	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 1608
R112	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R1219	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R1120	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R122	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1121	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1220	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16
R1122	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R1221	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R1123	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1222	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 1608
R1124	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1223	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16
R1125	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1224	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R1126	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1225	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 1608
R1127	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1226	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 1608

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1227	0RJ2201D477	MCR03EZPF222 2.2KOHM 1% 1/10W 16	R1304	0RJ0432D677	MCR03EZPJ430 430OHM 5% 1/10W 1608
R1228	0RJ2201D477	MCR03EZPF222 2.2KOHM 1% 1/10W 16	R1305	0RJ0432D677	MCR03EZPJ430 430OHM 5% 1/10W 1608
R1229	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1307	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R123	0RJ0472C678	MCR01MZPJ470 470OHM 5% 1/16W 1005	R1308	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1230	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1309	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1231	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R131	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608
R1235	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16	R1310	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1236	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16	R1311	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1237	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 1608	R1312	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1238	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W 1608	R1313	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1239	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1314	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R124	0RJ1200C678	MCR01MZPJ121 120OHM 5% 1/16W 100	R1315	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R1240	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1316	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R1241	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1317	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1242	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1318	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1243	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1319	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1244	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1320	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1245	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1321	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R125	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608	R1322	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R1259	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1323	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16
R126	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608	R1324	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16
R1260	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608	R1327	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1261	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608	R1328	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160
R1262	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1329	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W 1608
R1263	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R133	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608
R1264	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1330	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W 1608
R1270	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1331	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1271	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1332	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160
R1273	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W 16	R1333	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160
R1274	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 1608	R1334	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160
R1275	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1338	0RJ3901D677	MCR03EZPJ392 3.9KOHM 5% 1/10W 16
R1276	0RJ3002D677	MCR03EZPJ303 30KOHM 5% 1/10W 160	R134	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608
R1277	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16	R1345	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1278	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16	R1346	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1279	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 160	R1347	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
R128	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608	R1348	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
R1280	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1349	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
R1281	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1350	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W 1608
R1282	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16	R1351	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R1283	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W 16	R1352	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R1284	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1353	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R1285	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1354	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R1286	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1355	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R1287	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1356	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R1288	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1357	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R1289	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1358	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 1608
R129	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608	R1359	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1290	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R136	0RJ0472C678	MCR01MZPJ470 470OHM 5% 1/16W 1005
R1291	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1360	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1292	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1361	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1293	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1362	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1300	0RJ6202D677	MCR03EZPJ623 62KOHM 5% 1/10W 160	R1363	0RD3301A609	RDM92T1J3K30 3.3KOHM 5% 1/2W 6.5
R1301	0RJ2402D677	MCR03EZPJ243 24KOHM 5% 1/10W 160	R1364	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10W 160
R1302	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 160	R1365	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10W 160
R1303	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10W 16	R1366	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10W 160

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R137	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608	R1477	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R138	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R1478	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R139	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608	R148	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R140	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608	R149	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/10W 16
R1400	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10W 16	R150	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1401	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R151	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005
R1402	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R152	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1403	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R153	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005
R1404	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R154	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1405	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R155	0RJ3303D677	MCR03EZPJ334 330KOHM 5% 1/10W 16
R1406	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R157	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1407	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1607	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1408	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R1608	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1409	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 160	R1609	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1410	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R162	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1411	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160	R163	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1412	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160	R164	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 160
R1413	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R165	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1414	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R166	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1415	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160	R167	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1416	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160	R168	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1417	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R169	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1418	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R170	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R1419	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1703	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R142	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608	R1704	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R1420	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1706	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005
R1421	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1708	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1422	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1709	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1423	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1710	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R1429	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W 1005	R1713	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R143	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/10W 16	R1714	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1430	0RJ1201C678	MCR01MZPJ122 1.2KOHM 5% 1/16W 10	R1714	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R1431	0RJ1201C678	MCR01MZPJ122 1.2KOHM 5% 1/16W 10	R1715	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1433	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R1716	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R1436	0RJ1201C678	MCR01MZPJ122 1.2KOHM 5% 1/16W 10	R1717	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1438	0RJ1201C678	MCR01MZPJ122 1.2KOHM 5% 1/16W 10	R1718	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R1439	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R1719	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R144	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608	R1720	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R145	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/10W 16	R1721	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1452	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R1722	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R1453	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16	R1724	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005
R1454	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W 16	R1725	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1455	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R1725	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R1456	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10W 16	R1726	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R146	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/10W 16	R1727	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1460	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R1728	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1461	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R1729	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1462	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R173	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608
R1463	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 16	R1730	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1465	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R1731	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1466	0RJ1201C678	MCR01MZPJ122 1.2KOHM 5% 1/16W 10	R1732	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1467	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R1733	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1468	0RJ1201C678	MCR01MZPJ122 1.2KOHM 5% 1/16W 10	R1734	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R1469	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R1735	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608
R147	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608	R1736	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1737	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R1795	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1738	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R1796	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R1739	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R1796	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R1740	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R180	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005
R1741	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R183	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 160
R1742	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 1608	R184	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 160
R1743	0RJ1000D477	MCR03EZPF101 100OHM 1% 1/10W 160	R185	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005
R1744	0RJ1500D477	MCR03EZPF151 150OHM 1% 1/10W 160	R186	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005
R1745	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R187	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005
R1747	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R189	0RJ0000G676	MCR18EZHJ000_ 0OHM 5% 1/4W 3216
R1748	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R192	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1749	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R193	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R175	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R195	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1750	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R196	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1751	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R197	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1752	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R200	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R1753	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R201	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1754	0RJ2000C678	MCR01MZPJ201 200OHM 5% 1/16W 100	R202	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1758	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R203	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1759	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R204	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1760	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R205	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1761	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R206	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1762	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R207	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1763	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R208	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1764	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R209	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1765	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R210	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1766	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R211	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1767	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R212	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1768	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R213	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1769	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R214	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R177	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005	R215	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1770	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R216	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1771	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R217	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1773	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R218	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1774	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R219	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1777	0RJ2201C678	MCR01MZPJ222 2.2KOHM 5% 1/16W 10	R220	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1778	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R221	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R178	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 1608	R222	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1780	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R223	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1784	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R224	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1788	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R225	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1789	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R226	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1789	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R227	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R179	0RJ0472C678	MCR01MZPJ470 47OHM 5% 1/16W 1005	R228	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1790	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R229	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1790	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R230	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1791	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R231	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1791	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R232	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1792	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R233	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1792	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R234	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1793	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R235	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1793	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R236	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1794	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R237	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1794	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R238	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R1795	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R239	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160

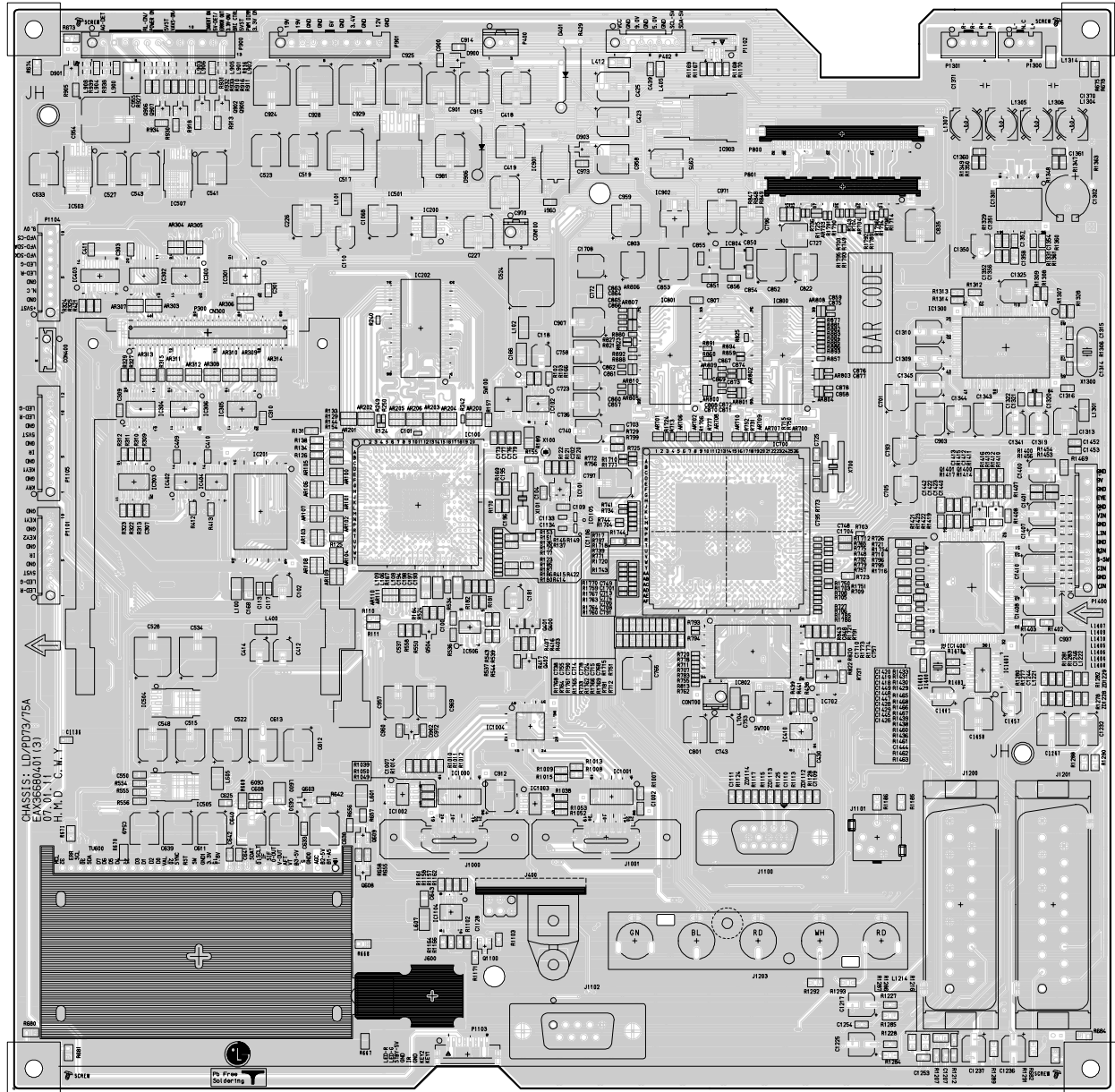
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R241	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R603	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R242	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R604	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R243	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R605	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R244	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R606	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R245	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R607	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R246	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R608	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R247	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R609	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R248	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R610	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R249	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R611	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R250	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R612	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R251	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R613	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R255	0RJ4701D477	MCR03EZPF472 4.7KOHM 1% 1/10W 16	R624	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R256	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R625	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R257	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R626	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608
R258	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R627	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W 16
R259	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R629	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R260	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R632	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608
R403	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R633	0RJ0472D677	MCR03EZPJ470 470OHM 5% 1/10W 1608
R407	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10W 160	R636	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16
R414	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R637	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 160
R415	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R639	0RJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W 1608
R416	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R640	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R417	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R642	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R422	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	R644	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R437	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R646	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W 160
R438	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R647	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 160
R439	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R648	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608
R441	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R649	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 160
R446	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R650	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160
R448	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R651	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R521	EBC32306001	MCR03EZPF5X9100 910OHM 1% 1/10W	R652	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608
R522	0RJ9311D477	MCR03EZPF9311 9.31KOHM 1% 1/10W	R653	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R523	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	R654	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R524	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R655	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160
R526	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608	R657	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 1608
R527	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 1608	R658	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W 16
R528	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R659	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R531	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R662	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R534	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R663	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R536	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R664	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R537	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 160	R665	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R539	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R666	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R540	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R667	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R541	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R668	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R543	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 160	R669	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R544	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	R670	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R547	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R671	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R548	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R672	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608
R550	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	R673	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R554	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R674	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R555	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W 160	R675	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R556	0RJ4302D677	MCR03EZPJ433 43KOHM 5% 1/10W 160	R676	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R557	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 1608	R677	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R558	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	R678	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R
R600	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 1608	R679	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R680	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R751	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608
R681	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R752	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005
R682	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R754	0RJ0562D677	MCR03EJPJ560 56OHM 5% 1/10W 1608
R684	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R755	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100
R685	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R756	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R686	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R757	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R687	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R759	0RJ0562D677	MCR03EJPJ560 56OHM 5% 1/10W 1608
R688	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012 R	R762	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100
R700	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R764	0RJ0562D677	MCR03EJPJ560 56OHM 5% 1/10W 1608
R700	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R767	0RJ1000D677	MCR03EJPJ101 100OHM 5% 1/10W 160
R701	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160	R769	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608
R702	0RJ0000D677	MCR03EJPJ000 0OHM 5% 1/10W 1608	R770	0RJ0332D677	MCR03EJPJ330 33OHM 5% 1/10W 1608
R703	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R770	0RJ0152D677	MCR03EJPJ150 15OHM 5% 1/10W 1608
R704	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R771	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R704	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R772	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R705	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R775	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R707	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100	R777	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005
R708	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R778	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100
R709	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R779	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R710	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R780	0RJ4701D677	MCR03EJPJ472 4.7KOHM 5% 1/10W 16
R711	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100	R781	0RJ1000D677	MCR03EJPJ101 100OHM 5% 1/10W 160
R712	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608	R782	0RJ1000D677	MCR03EJPJ101 100OHM 5% 1/10W 160
R713	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005	R783	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100
R715	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005	R784	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608
R717	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R785	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160
R718	0RJ1000D677	MCR03EJPJ101 100OHM 5% 1/10W 160	R786	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160
R720	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100	R787	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608
R722	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160	R788	0RJ0332D677	MCR03EJPJ330 33OHM 5% 1/10W 1608
R723	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608	R790	0RJ0332D677	MCR03EJPJ330 33OHM 5% 1/10W 1608
R724	0RJ0332D677	MCR03EJPJ330 33OHM 5% 1/10W 1608	R790	0RJ0152D677	MCR03EJPJ150 15OHM 5% 1/10W 1608
R725	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R791	0RJ4701D677	MCR03EJPJ472 4.7KOHM 5% 1/10W 16
R726	0RJ2000C678	MCR01MZPJ201 200OHM 5% 1/16W 100	R792	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R727	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R793	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100
R728	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160	R794	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16W 100
R729	0RJ4701D677	MCR03EJPJ472 4.7KOHM 5% 1/10W 16	R795	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R731	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005	R796	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R733	0RJ0562D677	MCR03EJPJ560 56OHM 5% 1/10W 1608	R797	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100
R734	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R798	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R735	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160	R798	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005
R736	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R799	0RJ4701D677	MCR03EJPJ472 4.7KOHM 5% 1/10W 16
R736	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R800	0RJ0000D677	MCR03EJPJ000 0OHM 5% 1/10W 1608
R737	0RJ4701D677	MCR03EJPJ472 4.7KOHM 5% 1/10W 16	R801	0RJ0000D677	MCR03EJPJ000 0OHM 5% 1/10W 1608
R739	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R805	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608
R740	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608	R807	0RJ0000D677	MCR03EJPJ000 0OHM 5% 1/10W 1608
R741	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R808	0RJ0000D677	MCR03EJPJ000 0OHM 5% 1/10W 1608
R743	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R810	0RJ1001D677	MCR03EJPJ102 1KOHM 5% 1/10W 1608
R743	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R811	0RJ0222D677	MCR03EJPJ220 22OHM 5% 1/10W 1608
R744	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R812	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160
R745	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160	R813	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005
R746	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160	R816	0RJ0000D677	MCR03EJPJ000 0OHM 5% 1/10W 1608
R747	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160	R818	0RJ1002D677	MCR03EJPJ103 10KOHM 5% 1/10W 160
R748	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	R821	0RJ1500C678	MCR01MZPJ151 150OHM 5% 1/16W 100
R749	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W 1005	R822	0RJ0000D677	MCR03EJPJ000 0OHM 5% 1/10W 1608
R749	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W 1005	R823	0RJ3000C678	MCR01MZPJ301 300OHM 5% 1/16W 100
R750	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W 1005	R825	0RJ3000C678	MCR01MZPJ301 300OHM 5% 1/16W 100

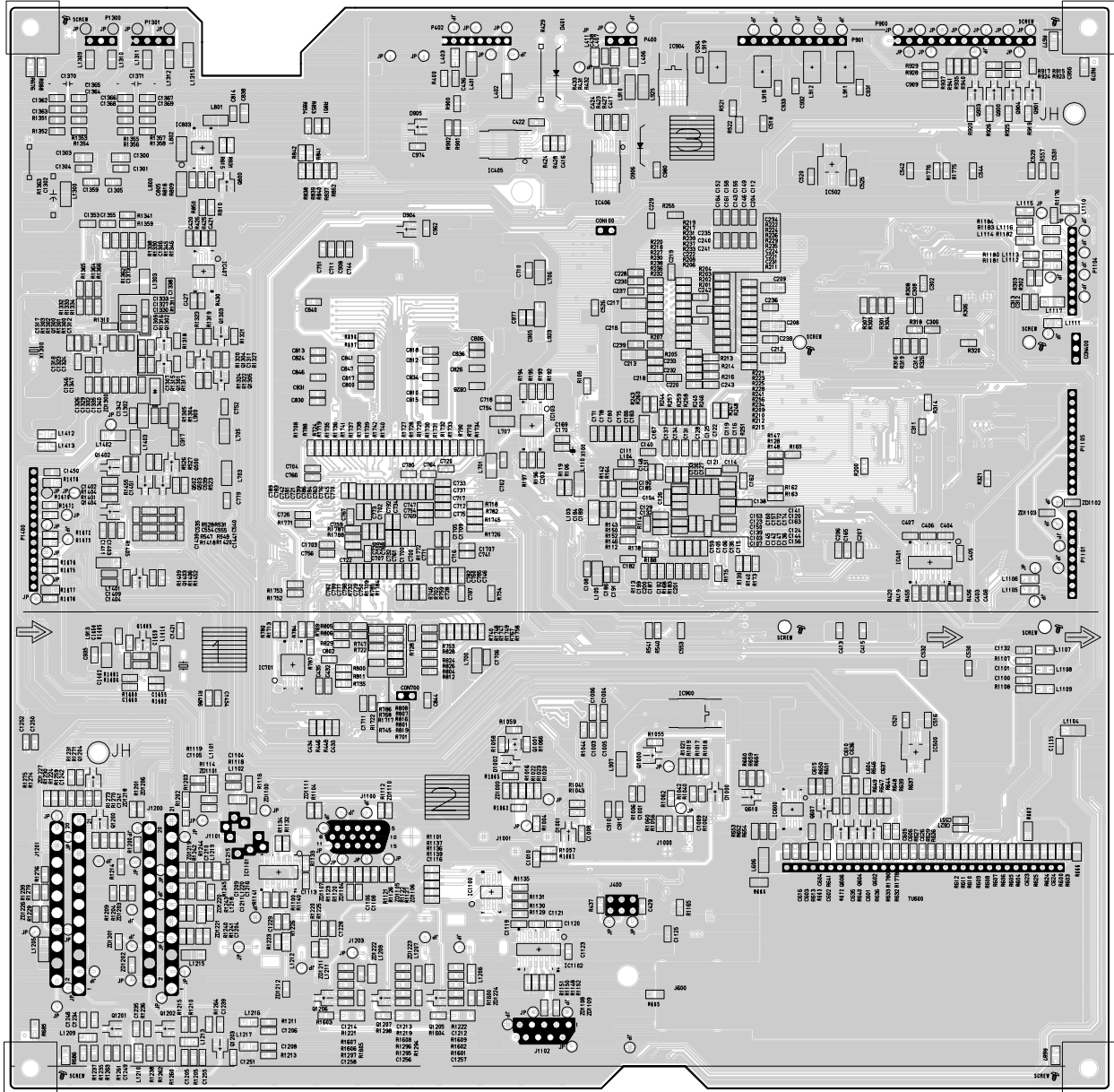
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R826	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	P101	6602T20009C	"Connector,WaferSMAW200-04P 4P 2."
R827	0RJ1500C678	MCR01MZPJ151 150OHM 5% 1/16W 100	P1105	6602T20008L	"Connector,WaferSMW200-12P 12P 2."
R829	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	P1300	6602T25008B	"Connector,WaferSMW250-03P 3P 2.5"
R837	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W 16	P1301	6602T25008C	"Connector,WaferSMW250-04P 4P 2.5"
R838	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 160	P1400	6602T20008N	"Connector,WaferSMW200-14P 14P 2."
R839	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	P801	6630V93270A	"Connector,WaferFI-RE51S-HFK-A 51"
R840	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	P900	6602T25008M	"Connector,WaferSMW250-13P 13P 2."
R843	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	P901	6602T25008J	"Connector,WaferSMW250-10P 10P 2."
R857	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA1	5240VE0001C	"Harness,SingleRING D4.3 RING D4."
R859	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA10	6631900010N	"Harness,Single12P 2.0MM 900MM SM"
R860	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA11	6631900012C	"Harness,SingleSMH250 SMH250 200m"
R877	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA12	6631900027C	"Harness,SingleSMH250 SMH250 200m"
R880	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA13	6631900099A	"Harness,SingleSMH250 SMP250 300m"
R881	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA14	6631T20033E	"Harness,SingleSMH200-14P SMH200-"
R882	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA15	EAD30301901	"Harness,SingleDMS 4P CONNECTOR A"
R883	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA16	EAD36184801	"Harness,SingleSMH250 SMH250 400M"
R884	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA2	6631900097F	"Harness,SingleYEONHO)SMH250 3509"
R885	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA3	6631900098F	"Harness,SingleSMH250 35097/35098"
R886	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA6	6631900049D	"Harness,Single14P-14P INVERTER C"
R888	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA7	6631900133F	"Harness,Single6631900133F (JAE)"
R891	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA7	EAD36608901	"Harness,SingleSMH200-12P SMH200-"
R892	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA8	6631T20032V	"Harness,SingleINVERTER 12P(2.0MM"
R893	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	CA8	6631900063G	"Harness,Single6631900063G SMH200"
R894	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16W 100	JACKs		
R897	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 160	J1000	6612B00015B	DC1R019WDH SOCKET 21P STRAIGHT S
R898	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W 160	J1001	6612B00015B	DC1R019WDH SOCKET 21P STRAIGHT S
R900	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	J1101	6612F00099A	PEJ024-01 1P 4P STRAIGHT TR 3.6M
R901	0RJ1002D477	MCR03EZPF103 10KOHM 1% 1/10W 160	J1200	6612M00010A	PSC003-01 21P 21P/1C 3.81MM STRA
R902	0RJ2002D477	MCR03EZPF203 20KOHM 1% 1/10W 160	J1201	6612M00010A	PSC003-01 21P 21P/1C 3.81MM STRA
R910	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	J1203	6612J10031B	PPJ209-01 14.0MM 1RX3C ANGLE BK
R911	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	J600	6612J10023A	KCN-BT-0-0053 10.5MM/11.5MM 1RX1
R913	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	JK100	6612J10033A	PMJ016-13 13P DIN/RCA 14MM ANGLE
R915	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	SWITChes		
R916	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW100	EBF32593901	TMUE312GAB 1C1P 12VDC 0.5A VERTI
R917	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW101	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R918	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW102	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R919	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW103	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R920	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW104	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R923	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	SW105	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R924	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW106	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R925	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW107	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R926	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	SW108	140-313B	KPT-1115AM 1C1P 12VDC 0.05A HORI
R928	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1608	SW700	EBF32593901	TMUE312GAB 1C1P 12VDC 0.5A VERTI
R930	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	OTHERs		
R932	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	B1	3890900400A	BoxBOX SW 376 286 50 1 COLOR ACC
R933	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 1608	B2	3890TKD002P	BoxLB500J(PCB) BRAND 542*397*445
R934	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 160	B3	3890TKD002P	BoxLB500J(PCB) BRAND 542*397*445
CONNECTOR			B5	3890TKD002Q	BoxRZ-42LZ30 BRAND PCB MATER CAR
J1100	6630G70016A	"Connector,DSUBA03-7071-094 D-SUB"	B6	MAY32943811	BoxBOX DW 1087 180 338 NO PRINTI
J1102	6630G70017A	"Connector,DSUBA02-0915-101 D-SUB"	B6	3890TKD002P	BoxLB500J(PCB) BRAND 542*397*445
P100	6602T25008B	"Connector,WaferSMW250-03P 3P 2.5"	B7	MAY36824501	BoxBOX DW 1103 836 358 2 COLOR 4
P100	6602T20009L	"Connector,WaferSMAW200-12P 12P 2"			
P100	6602T20009C	"Connector,WaferSMAW200-04P 4P 2."			
P101	6602T20008N	"Connector,WaferSMW200-14P 14P 2."			

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
D100	0DLLT0110AA	"LED,DIPLTL-1BEHJ-1 ROUND 3MM RED"			
IC100	6712000013A	Receiver ModuleTSOP4438SO1 4.5TO			
IC201	SAA30310929	"S/W,Firmware3.05 3F78 EUROPE FLA"			
IC802	SAA30715305	"S/W,FirmwareV2.37 A8F6 EUROPE FL"			
P1	3918TKK038J	Packing538*390 LB500J PCB			
P10	MFZ32949101	PackingMOLD EPS 42LC4 EPS 42LC4			
P11	3918TKK038P	Packing1140*790 FOR L1515SL			
P12	3918TKK038V	Packing(565*385) RZ-42LZ30			
P13	MFZ37372401	PackingBOX DW 575 50 395 NO PRIN			
P14	3918TKK038J	Packing538*390 LB500J PCB			
P15	3918TKK040A	Packing542*70 MAIN PCB(B)			
P16	3918TKK040B	Packing397*70 LB500J MAIN PCB(S)			
P17	400-C17F	Packing(1000X1050)CS771 DIGITAL			
P2	3918TKK040A	Packing542*70 MAIN PCB(B)			
P3	3918TKK040B	Packing397*70 LB500J MAIN PCB(S)			
P4	400-C17F	Packing(1000X1050)CS771 DIGITAL			
P5	3918TKK038J	Packing538*390 LB500J PCB			
P6	3918TKK040A	Packing542*70 MAIN PCB(B)			
P7	3918TKK040B	Packing397*70 LB500J MAIN PCB(S)			
P8	400-C17F	Packing(1000X1050)CS771 DIGITAL			
P9	400-C02H	PackingCARTON (MV202)			
TU600	EBL32961502	"Tuner,DigitalTDFC-G106P DVB-T/PA"			
X100	6212AC2002B	Crystal9H03200164 32.768KHZ 20PP			
X101	6212AB2883A	CrystalHC-49SM 27.00000MHZ 27MHZ			
X1300	156-A02R	CrystalEUA18.4320F16E33L 18.432M			
X700	6212AB2015J	CrystalHC-49SM 19.66080HZ 19.660			
ACCESSORY					
A1	MFL36914902	"Manual,OwnersPRINTING USER PD75A"			
A2	MKJ32022835	Remote ControllerCOMPLEX LD75A 4			
A3	6410TEW010A	"Power CordCEE,LP-34A&H05VV-FX3C,"			
A4	3840TWL027F	CardPRINTING WARRANTY LG EU/RUSS			
A5	3840VA0024D	CardPRINTING WARRANTY LG UK EXTE			
A6	6910VA1001A	"Battery,AlkalineLR6(STC) 1.5V 2."			
A7	MBM30520909	CardPRINTING OTHERS LG 60PY3DF-Z			
A8	SAC30033608	Title60PY3DF-ZA CD MANUAL PDP DT			

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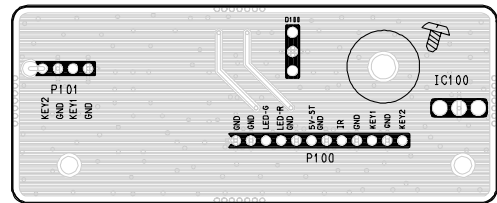
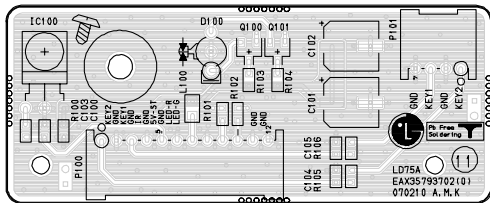


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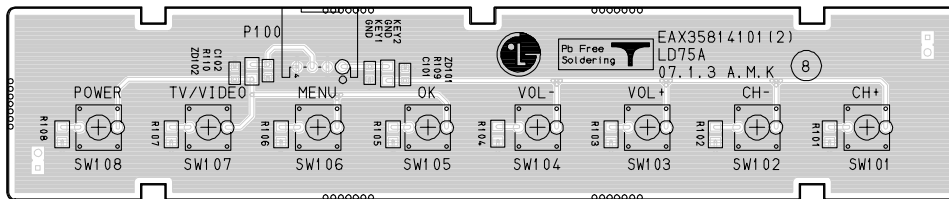


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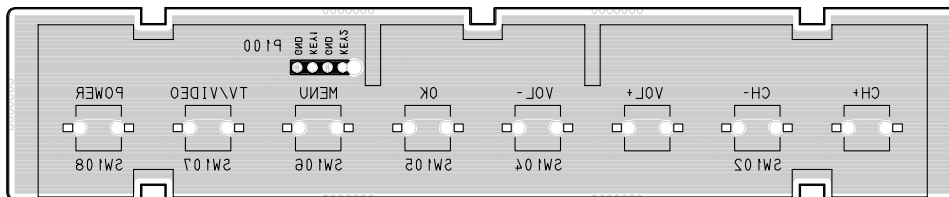
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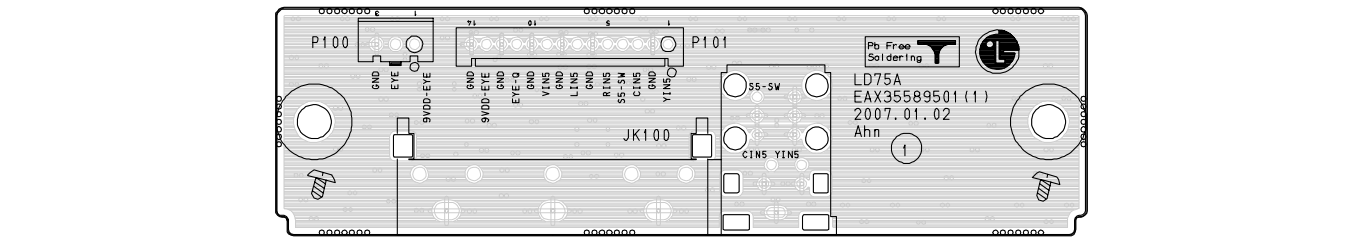
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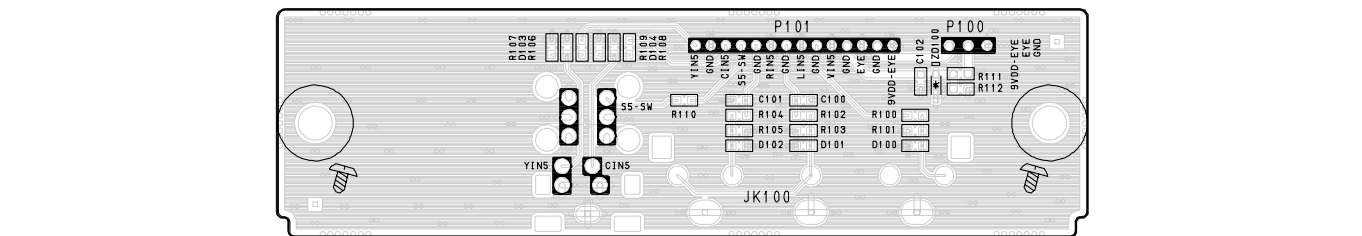
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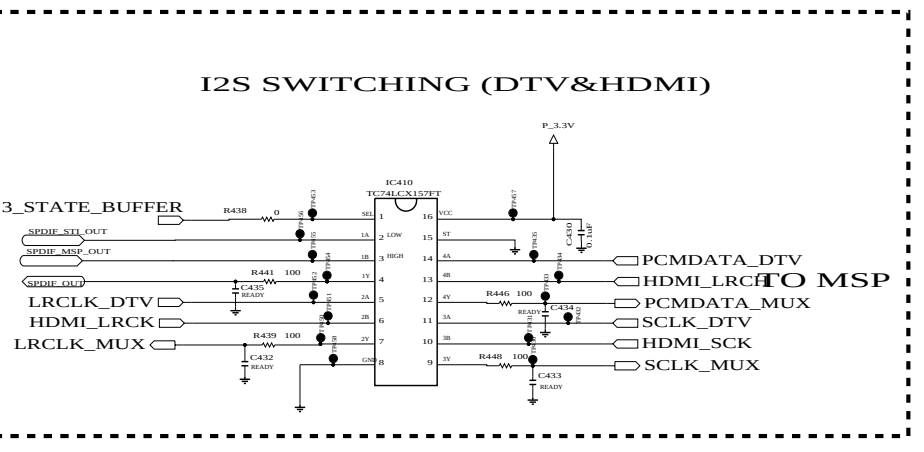
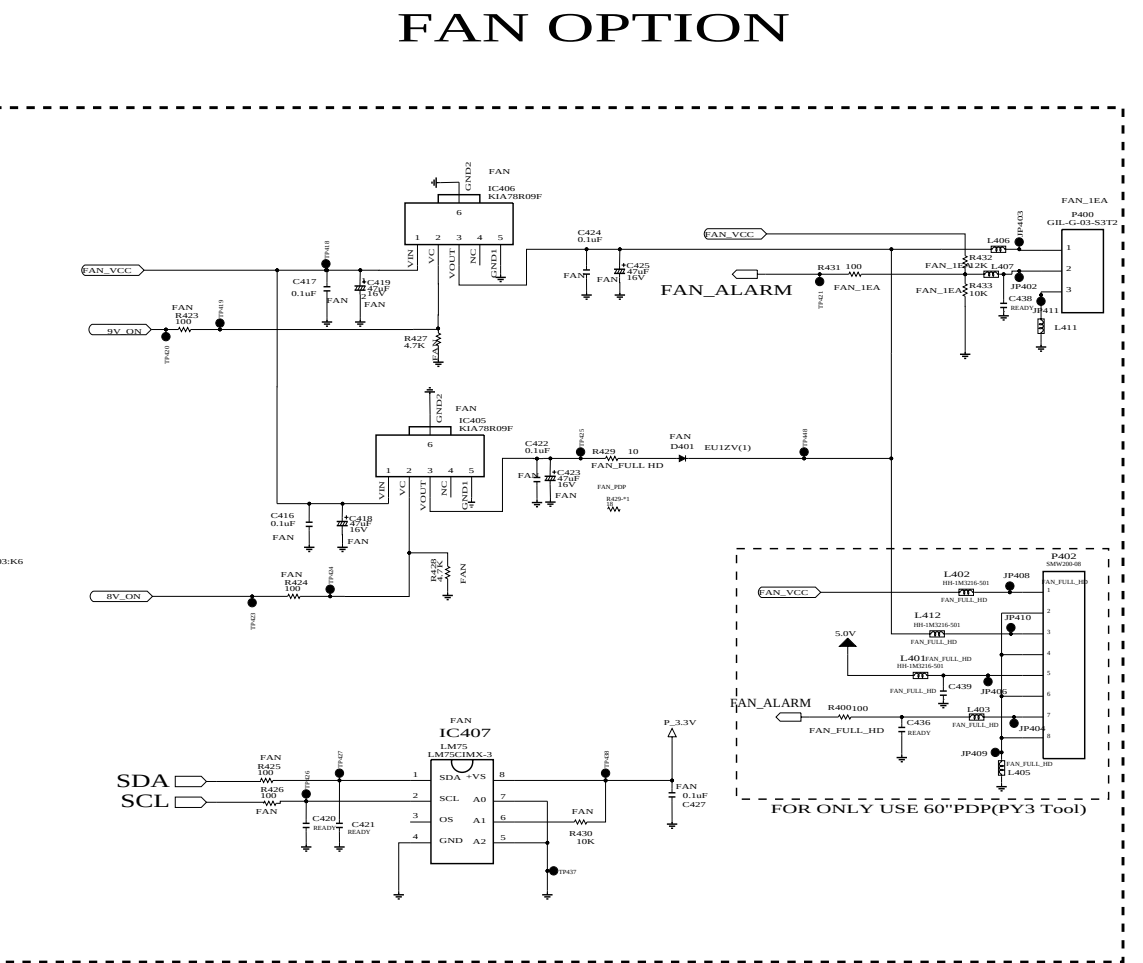
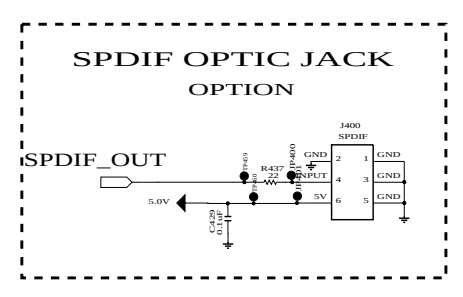
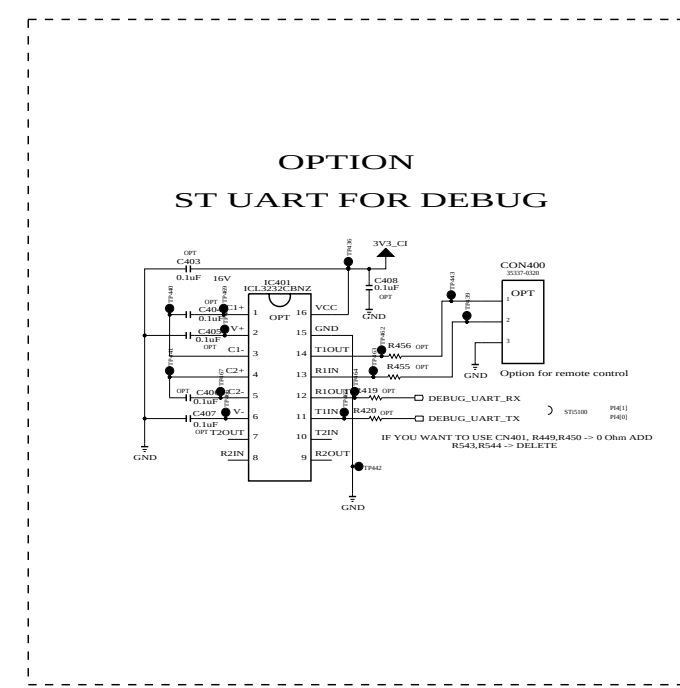
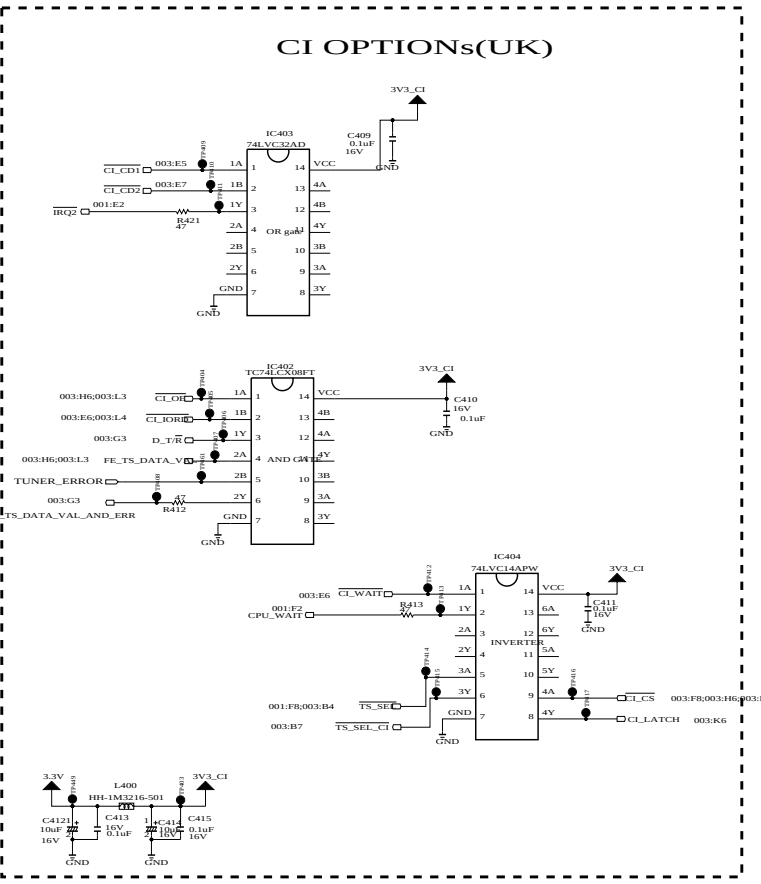
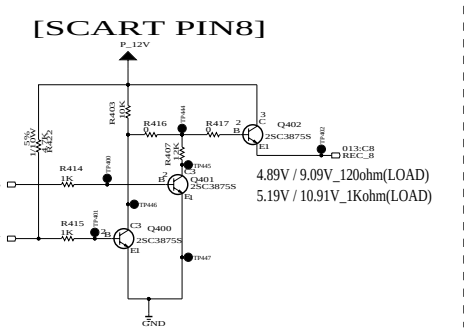
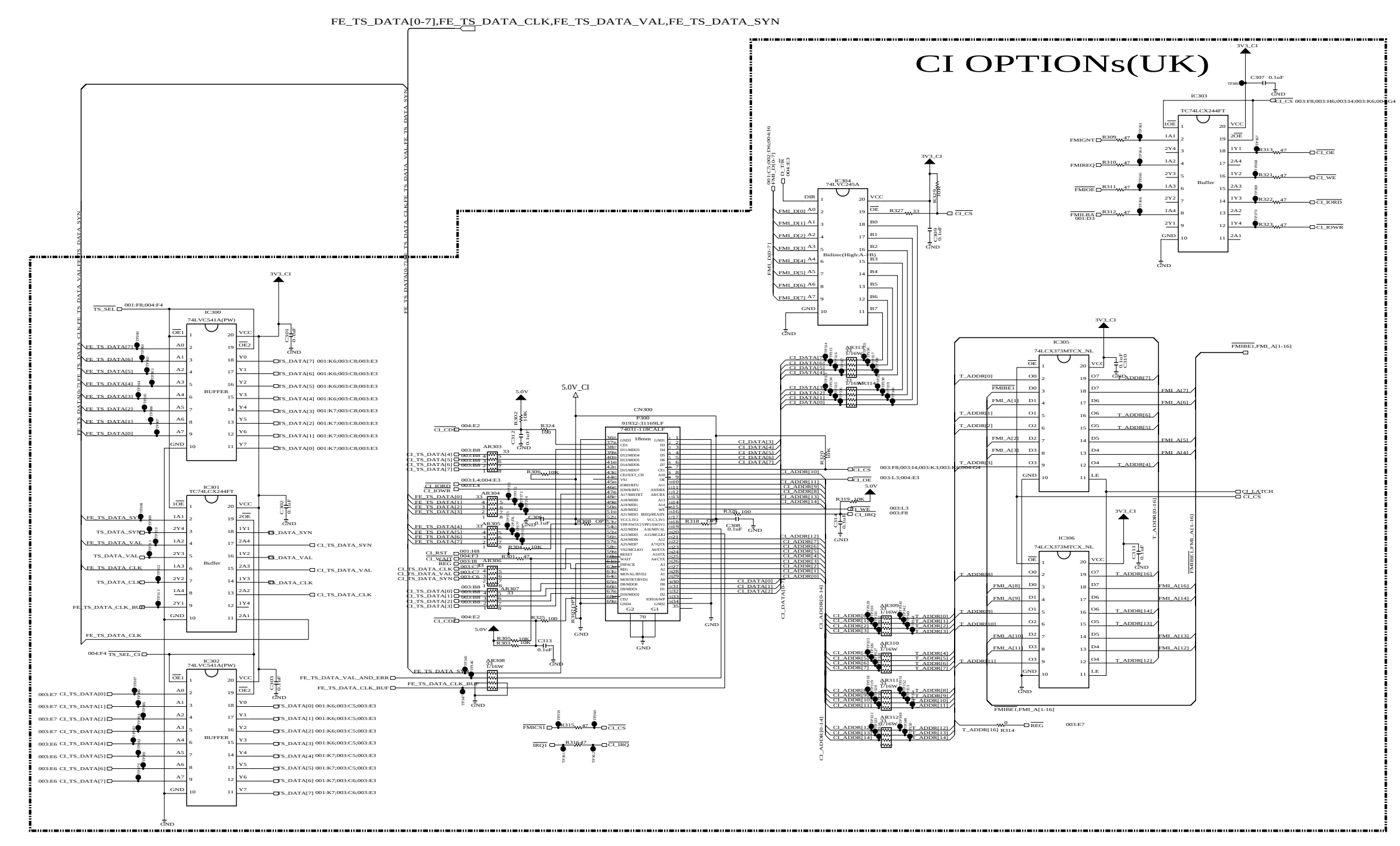
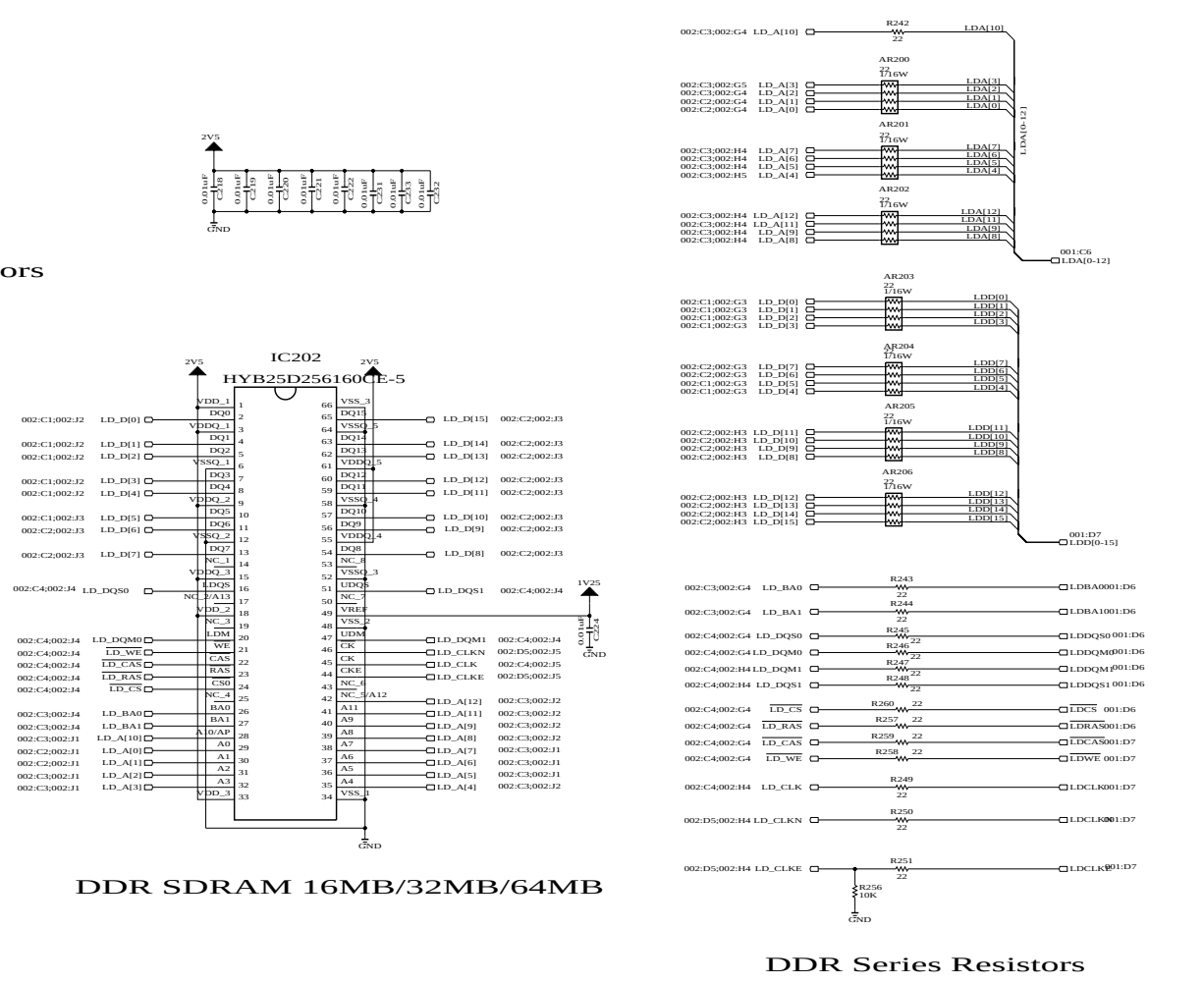
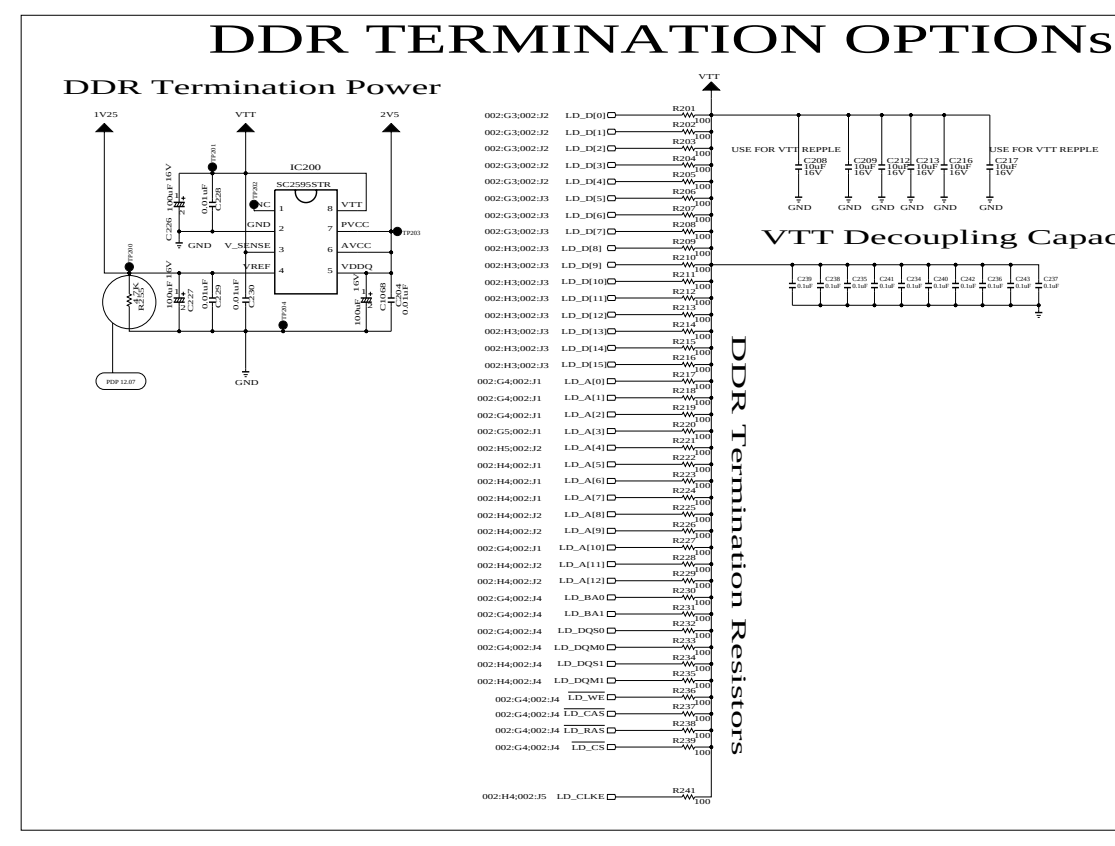
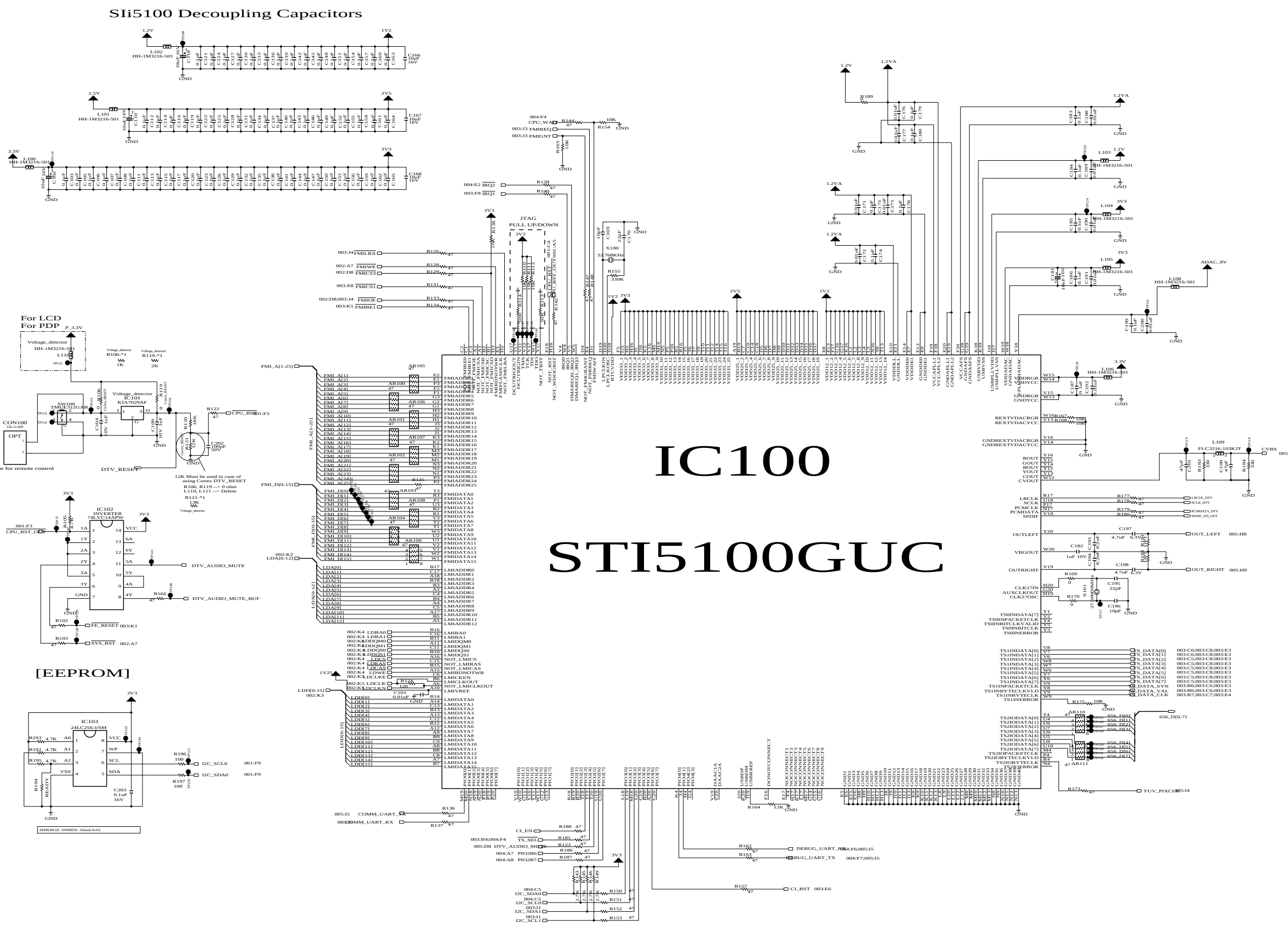


SIDE AV (TOP)

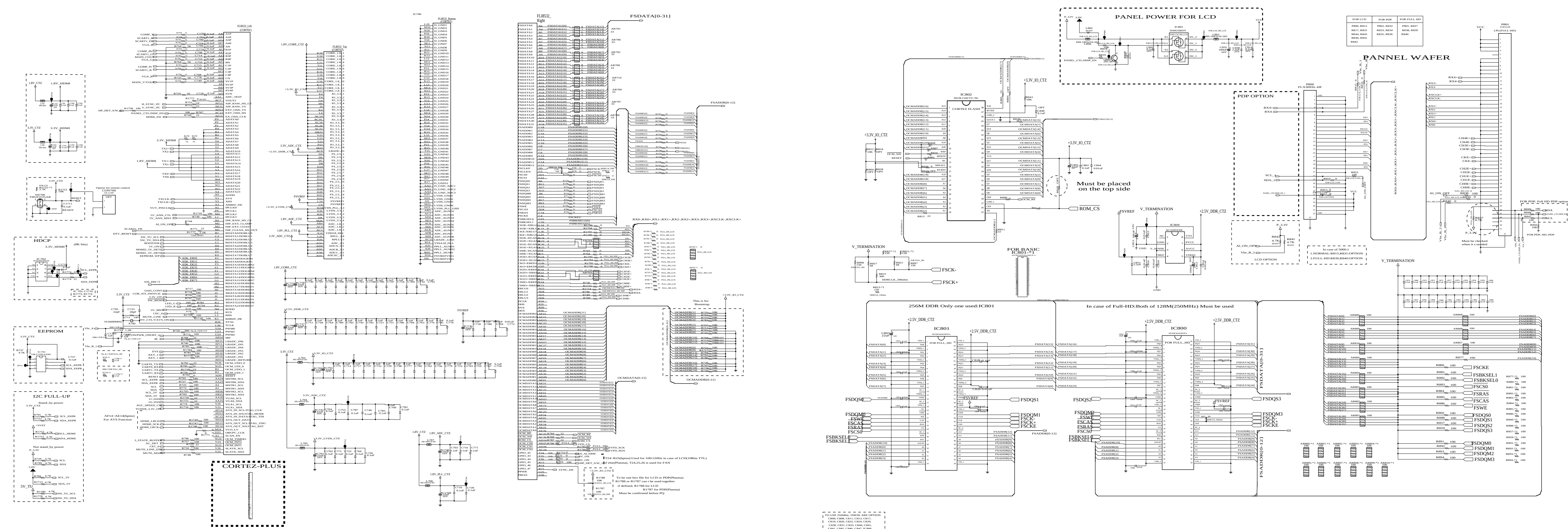
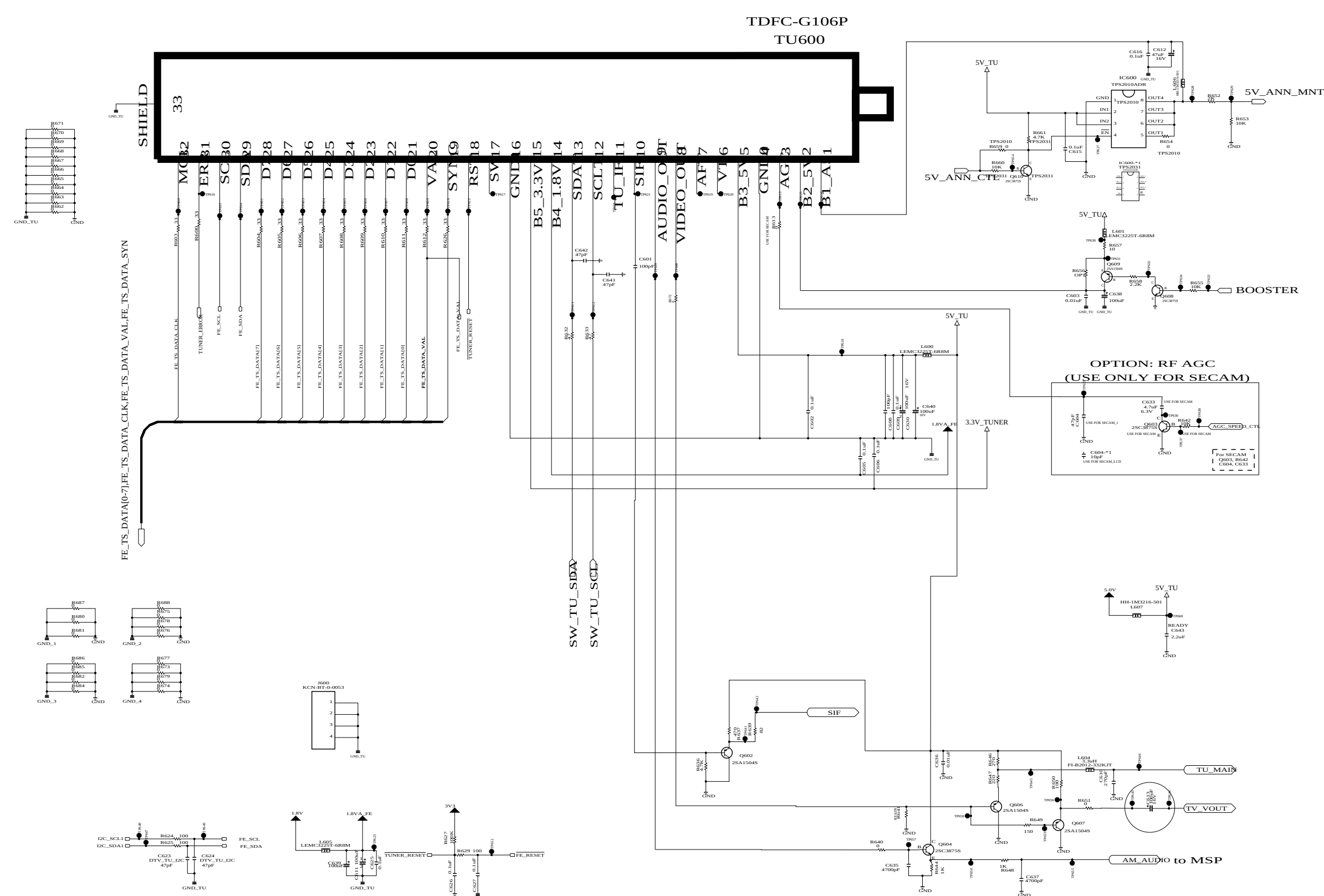
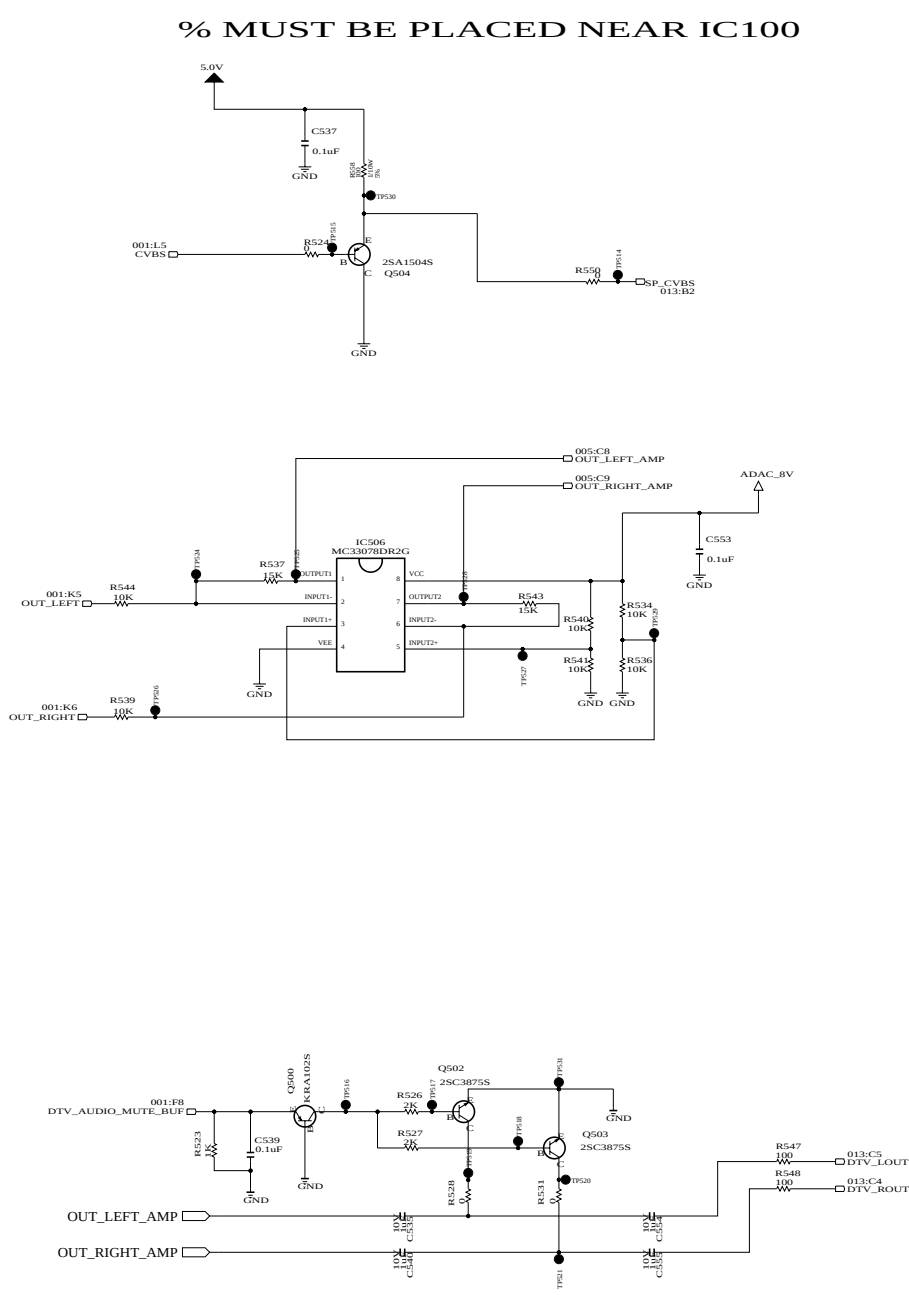
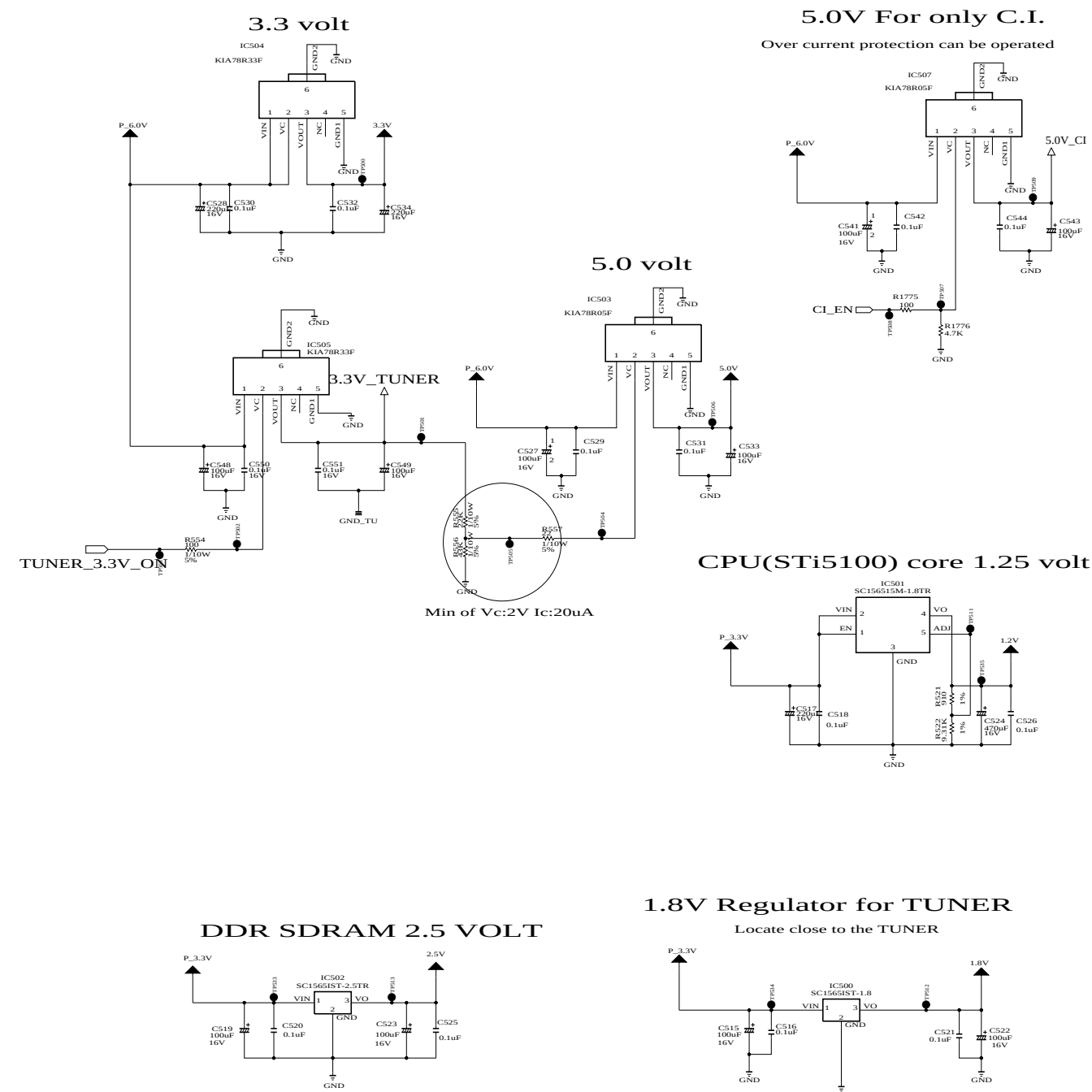


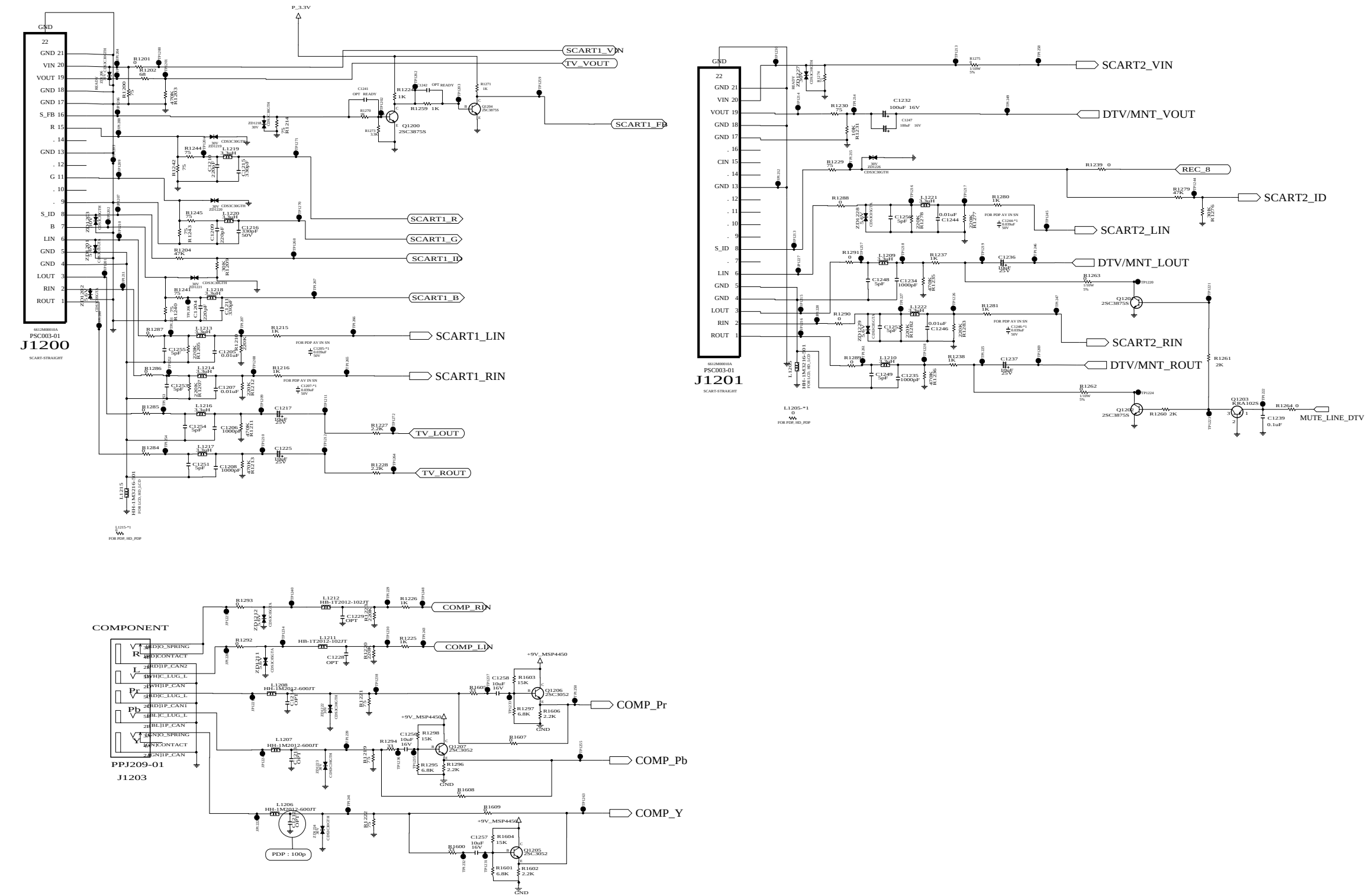
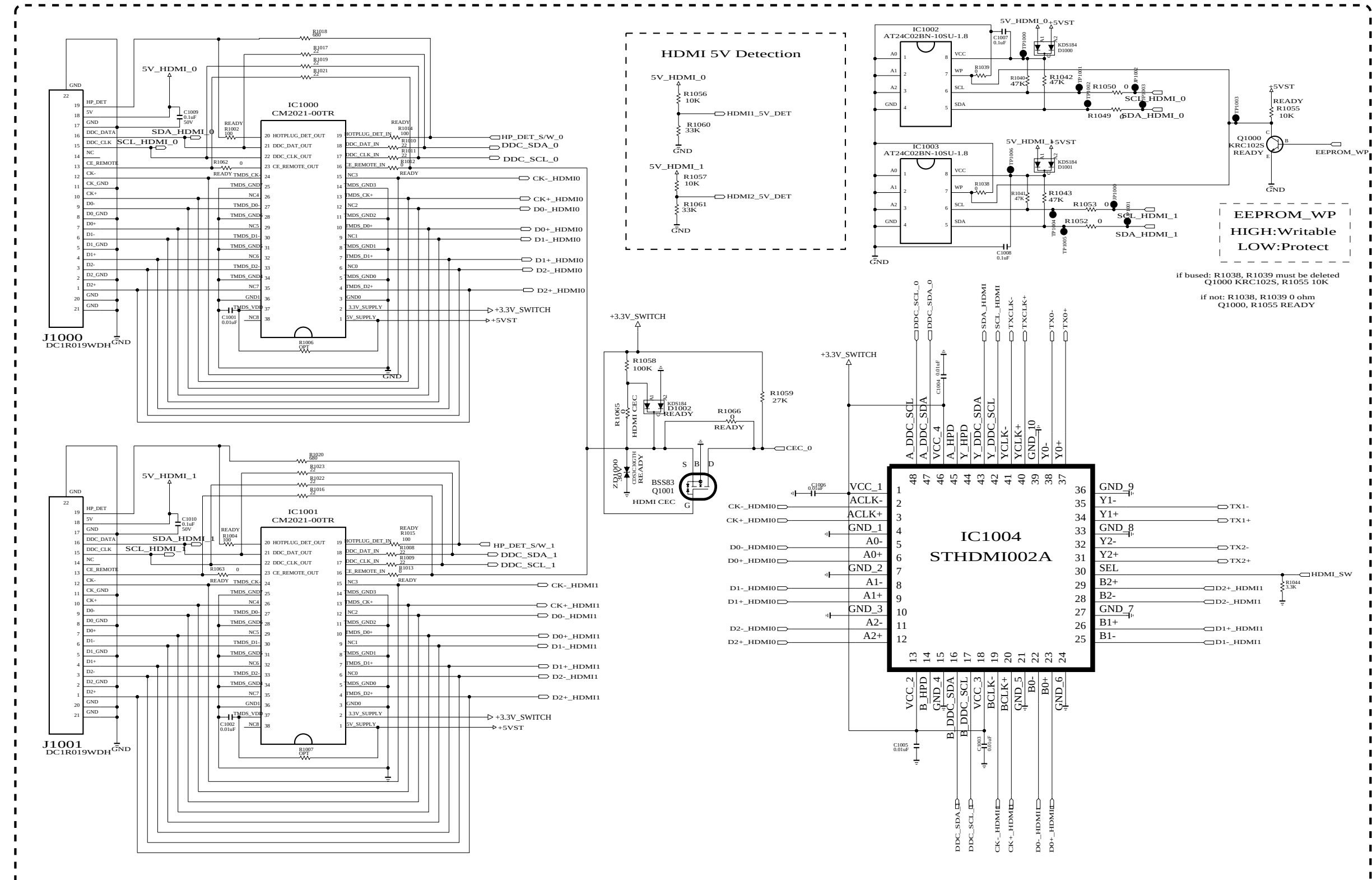
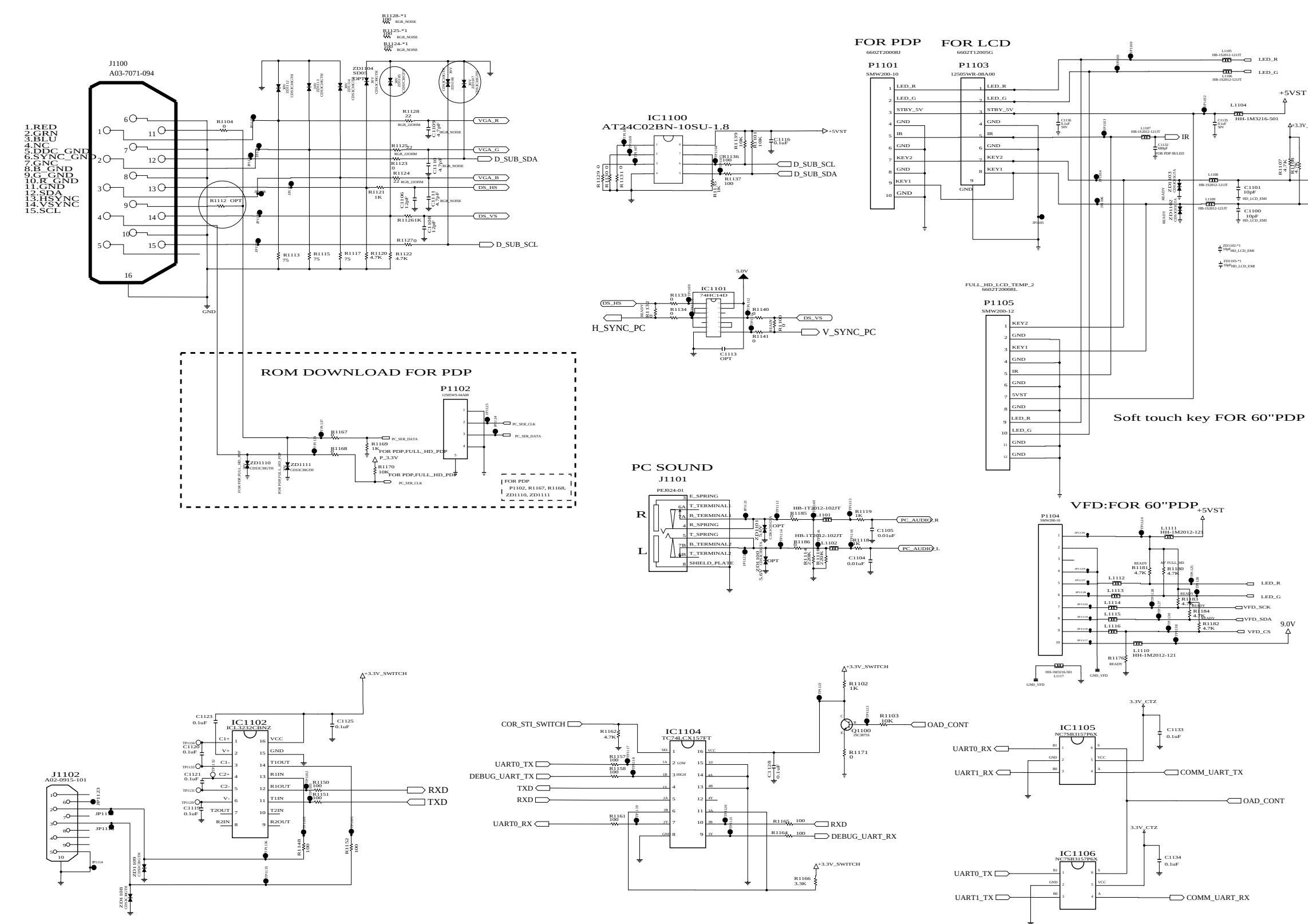
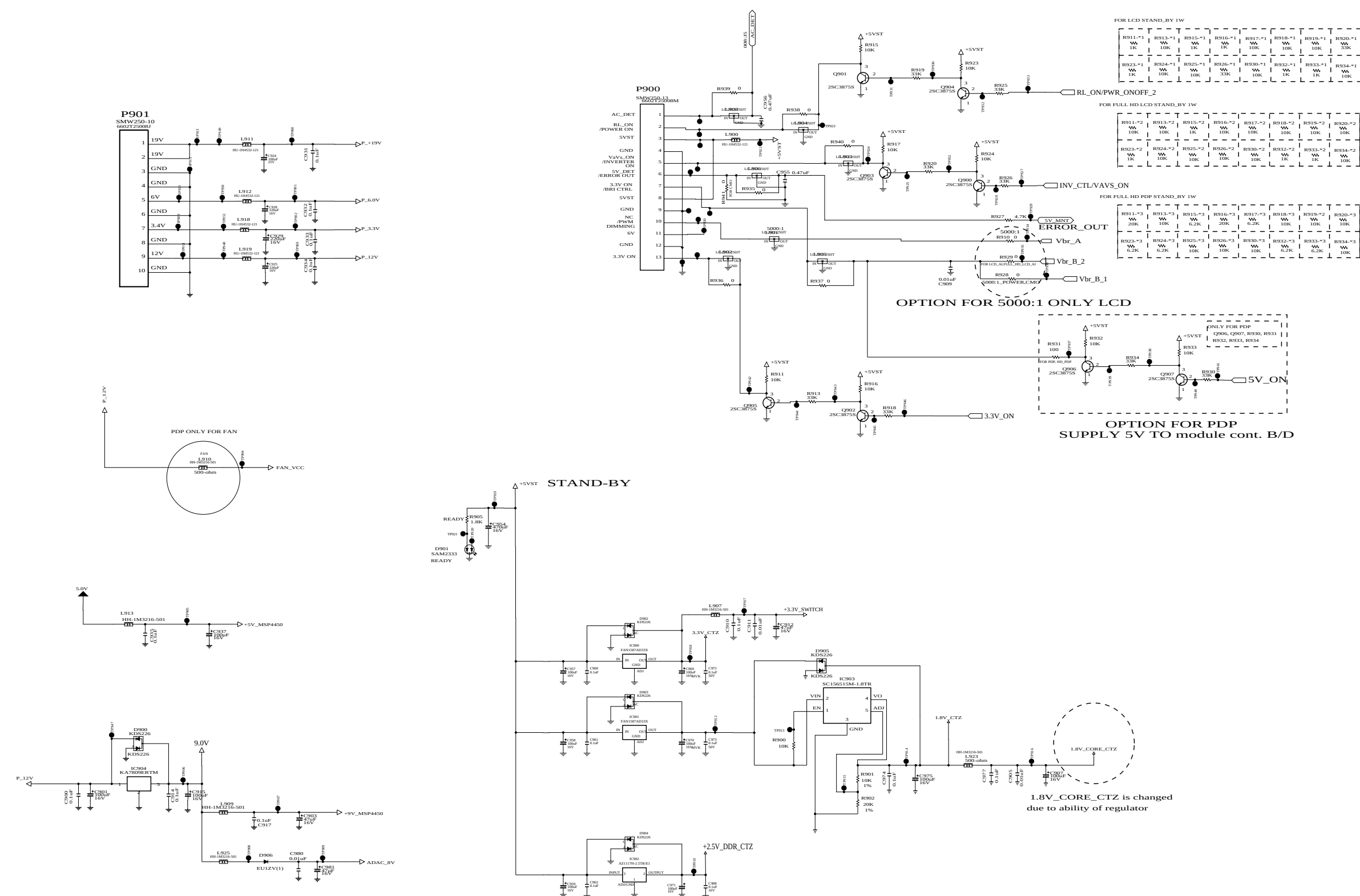
SIDE AV (BOTTOM)

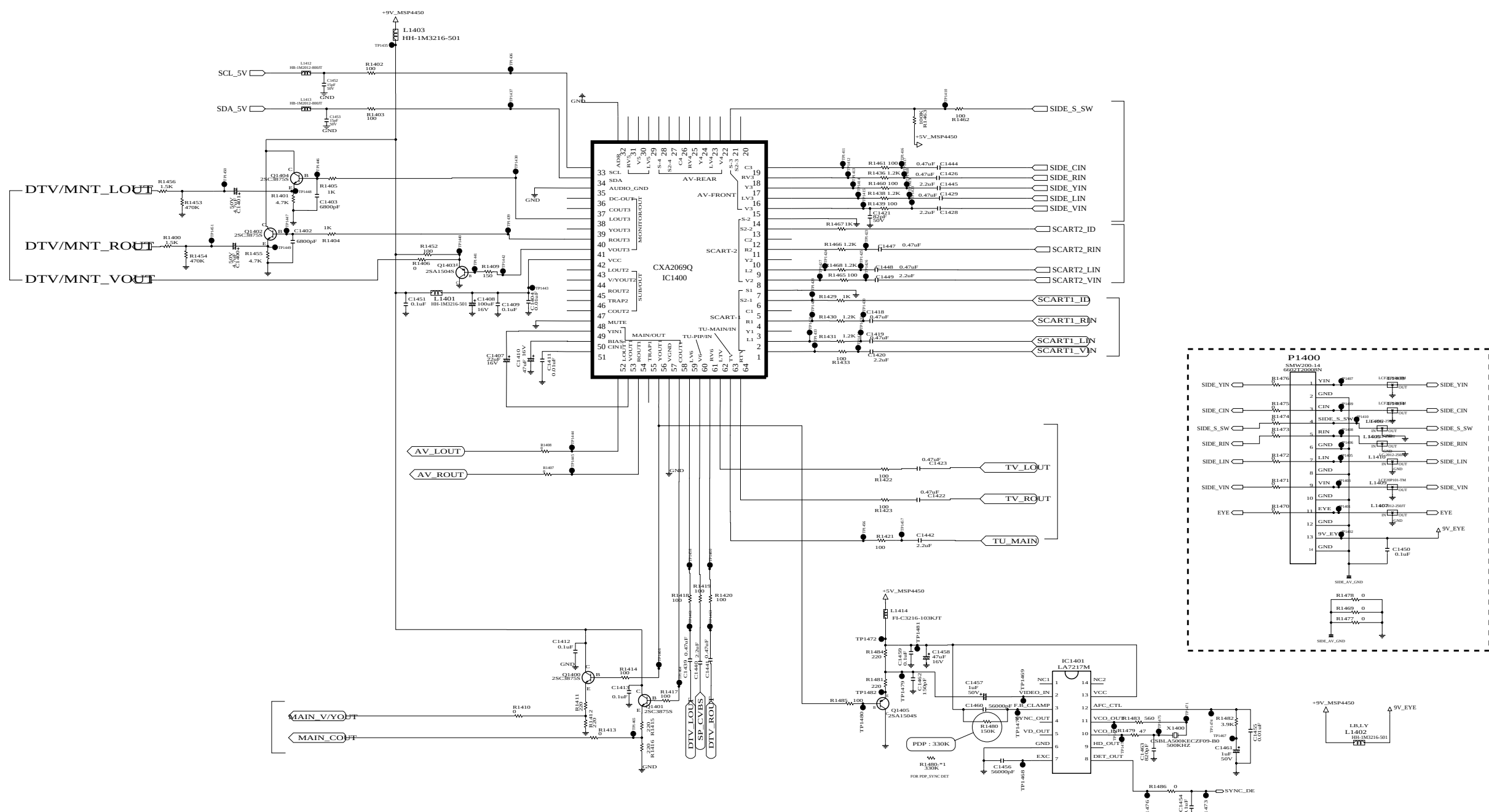




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