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LCD TV

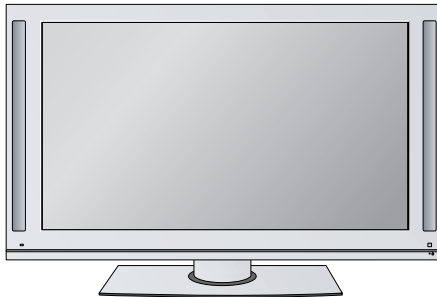
SERVICE MANUAL

CHASSIS : LD75A

MODEL : 42LY95 42LY95-ZA

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.

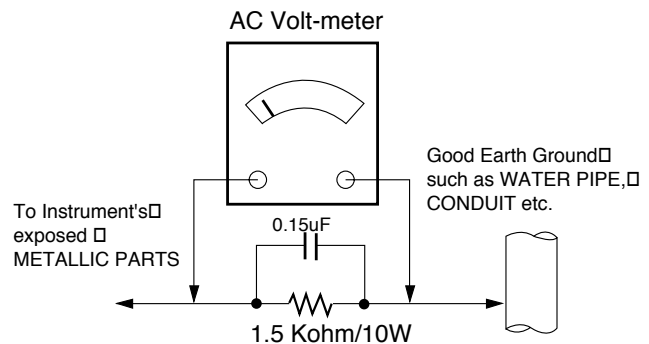
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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(47LF65(47LB5DF))

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle		R/L	178			Viewing	R/L	178	
<CR>10>		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		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
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		

*** 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(42LF65(42LB5DF)

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle		R/L	178			Viewing Angle	R/L	178	
<CR>10>		U/D	178			<CR>10>	U/D	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) - 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(37LF65(37LB5DF))

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>	R/L		178			Viewing Angle <CR>10>	R/L	178	
	U/D		178				U/D	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)
	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(47LY95(47LY3DF))

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle <CR>10>	R/L		178			Viewing Angle <CR>10>	R/L	178	
	U/D		178				U/D	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(42LY95(47LY3DF))

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle	R/L		178			Viewing Angle	R/L	178	
<CR>10>	U/D		178			<CR>10>	U/D	178	
White average brightness	42LY95		350	400	-	cd/m²			-100IRE Full White Pattern (255 gray) - Picture : Dynamic (Cool)
Brightness uniformity1.3			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	0.273	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)
	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(37LY95(37LY3DF))

Item			Min	Typ	Max	Unit	Measurement	Result	Remark
Viewing Angle	R/L		178			Viewing Angle	R/L	178	
<CR>10>	U/D		178			<CR>10>	U/D	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)
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	PAL		-500		+500	Hz			
Range	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 CE 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	72	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	2D	5A	43	20	20	20	20	0	FF

<Example : 37LF65-ZC RGB EDID data>

6CH – 7DH : Model name

7EH : No Extension EDID Block

7FH : Check sum

Model Name : 47LB5DF-ZC (47LF65-ZC) / Check Sum : FE

Model Name : 42LB5DF-ZC (42LF65-ZC) / Check Sum : 03

Model Name : 37LB5DF-ZC (37LF65-ZC) / Check Sum : FF

Model Name : 47LY3DF-ZA (47LY95-ZA) / Check Sum : EA

Model Name : 42LY3DF-ZA (42LY95-ZA) / Check Sum : EF

Model Name : 37LY3DF-ZA (37LY95-ZA) / Check Sum : EB

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)	PCΣCE ȳ»Ø Ω√/ 640*480 60HzΣCE Display
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	
9.	1280*720	44.96	59.94	74.176	HDTV 720P	PCΣCE ȳ»Ø Ω√/ 1280*720 60HzΣCE Display
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	PCΣCE ȳ»Ø Ω√/ 1920*1080 60HzΣCE Display
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	DTVΣCE ȳ,»Ø Ω√ 480pΣCE Display 848*480 60Hz, 852*480 60Hz : No signal √≥Π/Æ
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	1920*1200 60Hz ȳ'Σ~Ω√ No Signal √≥Π/Æ
12	1920*1080	66.647	59.988	138.625	WUXGA	Reduced Blanking Timing DTVΣCE ȳ,»Ø Ω√ 1080pΣCE Display

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	72	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	2D	5A	43	20	20	20	20	1	D8
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	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-ZC (47LF65-ZC) / Check Sum HDMI1 : D71D , HDMI2 : D70D

Model Name : 42LB5DF-ZC (42LF65-ZC) / Check Sum HDMI1 : DC1D , HDMI2 : DC0D

Model Name : 37LB5DF-ZC (37LF65-ZC) / Check Sum HDMI1 : D81D , HDMI2 : D80D

Model Name : 47LY3DF-ZA (47LY95-ZA) / Check Sum HDMI1 : C31D , HDMI2 : C30D

Model Name : 42LY3DF-ZA (42LY95-ZA) / Check Sum HDMI1 : C81D , HDMI2 : C81D

Model Name : 37LY3DF-ZA (37LY95-ZA) / Check Sum HDMI1 : C41D , HDMI2 : C41D

9. MODULE

9-1. General specifications(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(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(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(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(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. 47LF65(47LB5DF)

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. 42LF65-ZC(42LB5DF)

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. 37LF65-ZC(37LB5DF)

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. 47LY95-ZA(47LY3DF)

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. 42LY95-ZA(42LY3DF)

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	Only SET	30.1Kg			With Stand
	Weight	With BOX	34.6Kg			

10-6. 37LY95-ZA(37LY3DF)

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	Only SET	23.0Kg			With Stand
	Weight	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 : 37/42/47LB5DF-ZC, 37/42/47LY3DF-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°±5°C temperature and 65°±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.
- 3) 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)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D		(a)			(b)	
01		(c)	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
02	11	49	4B	A5	6E	80	31	40	45	40	61	40	D1	C0	01	01
03	01	01	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
04	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
05	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
06	4B	1F	3D	09	00	0A	20	20	20	20	20			(d)		
07															00	(e)

2> HDMI (256Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D		(a)			(b)	
01		(c)	01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
02	11	49	4B	00	00	00	01	01	01	01	01	01	01	01	01	01
03	01	01	01	01	01	01	8C	0A	D0	8A	20	E0	2D	10	10	3E
04	96	00	C4	8E	21	00	00	18	8C	0A	D0	90	20	40	31	20
05	0C	40	55	00	C4	8E	21	00	00	18			(d)			
06														00	00	00
07	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	01	(e)
08	02	03	1E	F1	4B	82	11	01	03	12	13	04	14	05	1F	10
09	20	21	22	23	09	07	07	83	01	00	00	65	03	0C	00	10
0A	00	01	1D	00	BC	52	D0	1E	20	B8	28	55	40	C4	8E	21
0B	00	00	1E	01	1D	00	72	51	D0	1E	20	6E	28	55	00	C4
0C	8E	21	00	00	1E	01	1D	80	D0	72	1C	16	20	10	2C	25
0D	80	C4	8E	21	00	00	9E	01	1D	80	18	71	1C	16	20	58
0E	2C	25	00	C4	8E	21	00	00	9E	8C	0A	D0	90	20	40	31
0F	20	0C	40	55	00	13	8E	21	00	00	18	00	00	00	00	CA

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

(a) Product ID

Model Name	Product ID	Product ID		
		DEC	Hex	EDID Table
37/42/47LF65	XXXX	XX	XX	XXXX
37/42/47LY95	XXXX	XX	XX	XXXX

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

(d) Model Name(Hex) :

Model Name	Model Name(Hex)
37/42/47LF65	XXXX
37/42/47LY95	XXXX

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

Model name	Tool Option1	Tool Option2
37LF65(37LB5DF)	2320	1701
42LF65(42LB5DF)	2324	1701
47LF65(47LB5DF)	2328	1701
37LY95(37LY3DF)	2384	1701
42LY95(42LY3DF)	2391	1701
47LY95(47LY3DF)	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.

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.

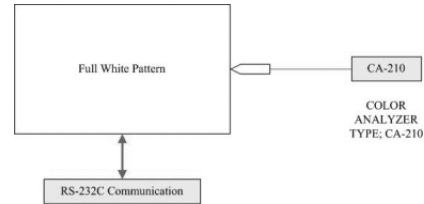
CSM	LCD
Cool	11,000k
Medium	9,300k
Warm	6,500k

* White balance adjustment coordinate and color temperature.

	CS-1000	CA-210 (CH 9)	CA-100+ (CH 9)
Cool			
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			
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			
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

- Adjust in the place where the influx of light like floodlight around is blocked. (illumination is less than 10ux).
- 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

- setup is done.

2) Test Equipment

Color Analyzer (CA210, CA-100+)
PC (for communication through RS-232C)
RS-232 Host Ě PC
UART Baud rate Ě 115200
Download Ě 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

- 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).
- Zero Calibrate CA-100+, and when controlling, stick the sensor to the center of LCD module surface.
- Double click In-start key on Controlling R/C and get in 'white balance'.
- 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	165
Area Option	0
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	

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

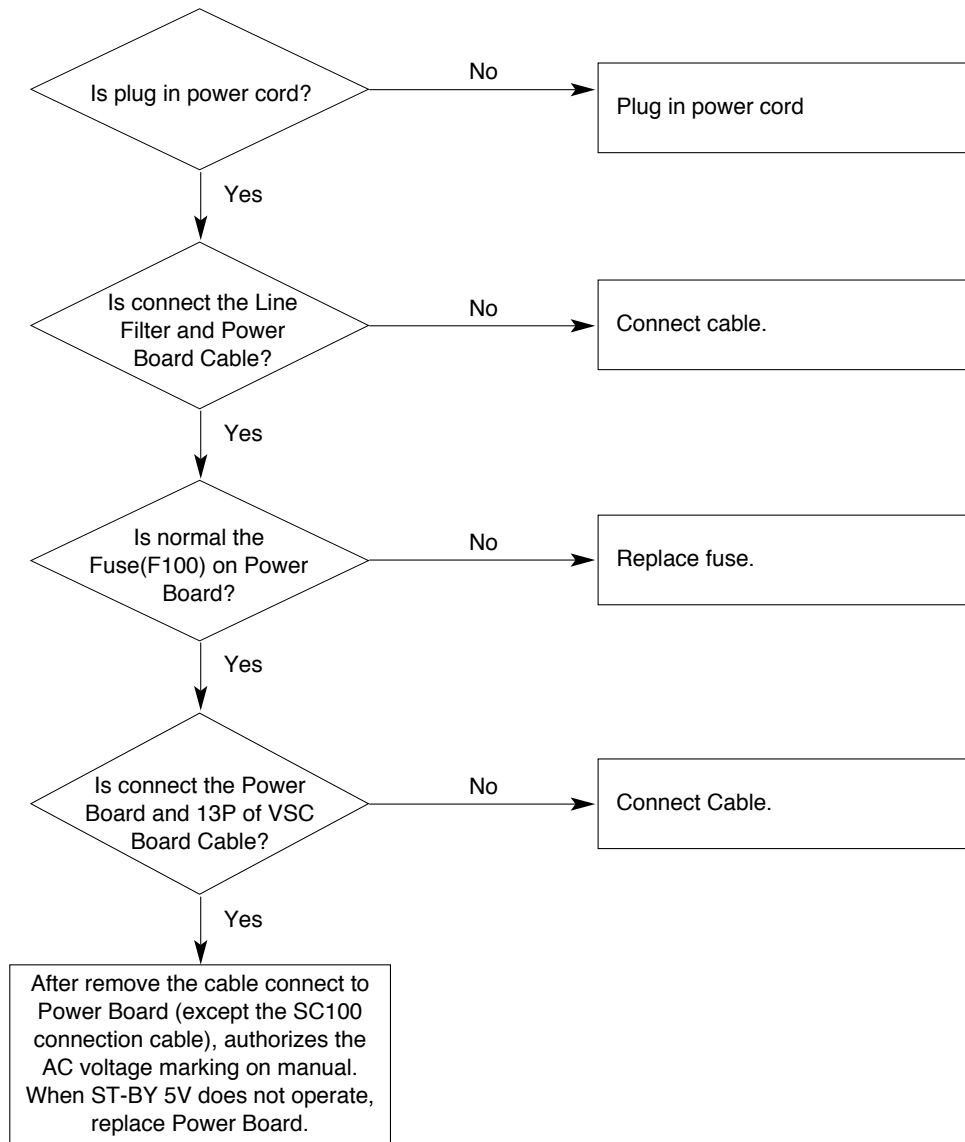
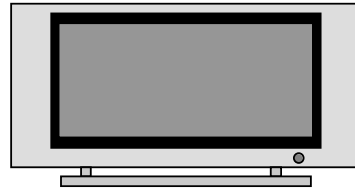
TROUBLESHOOTING

1. No power

(1) Symptom

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

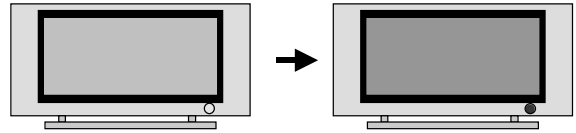
(2) Check follow



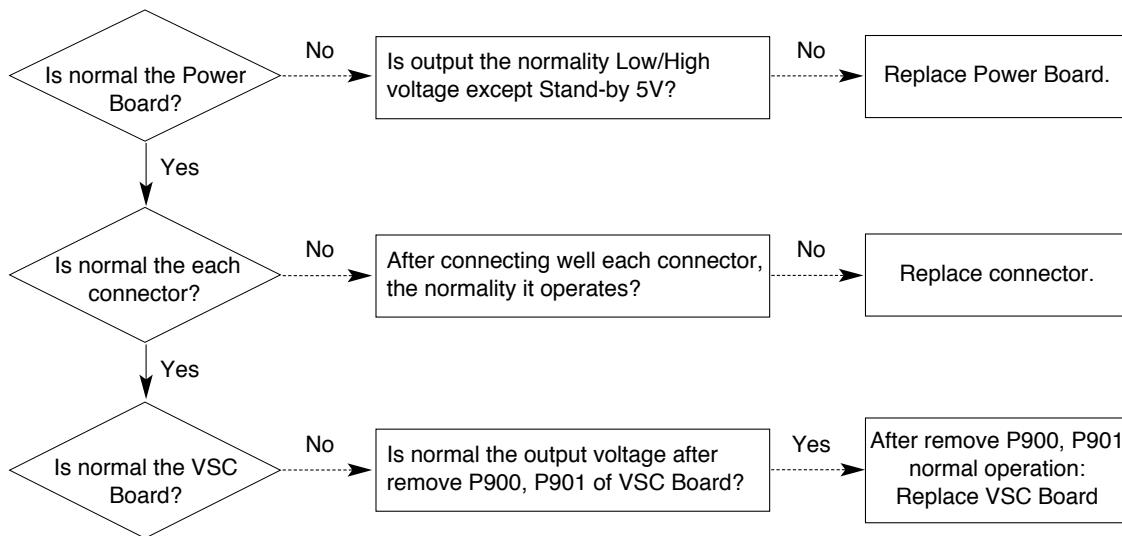
2. Protect mode

(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

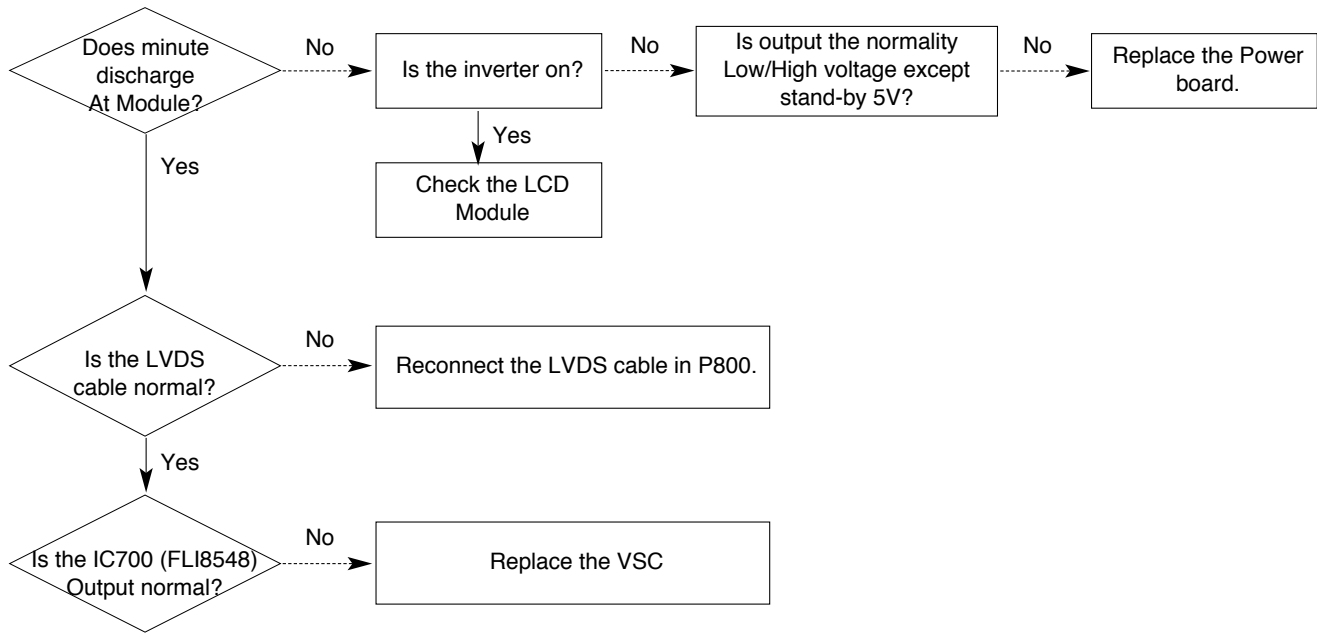
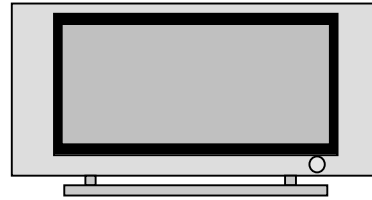


3. No Raster

(1) Symptom

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

(2) Check follow



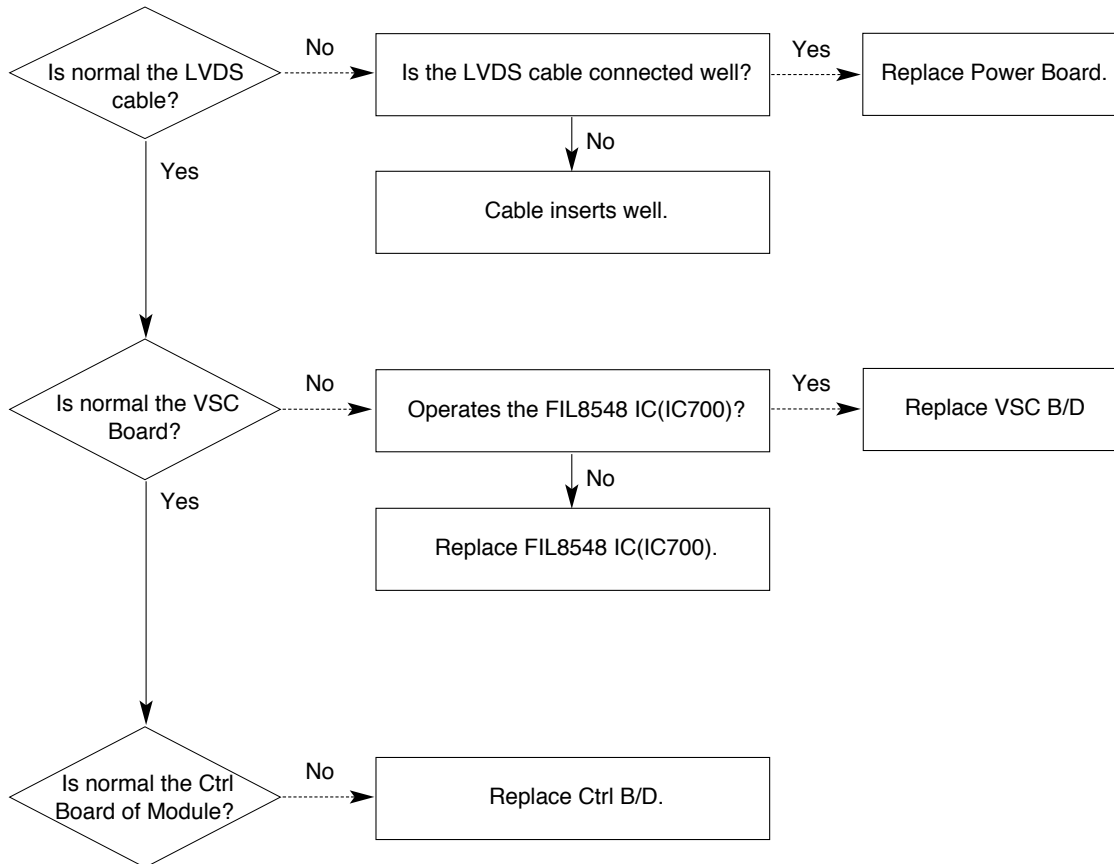
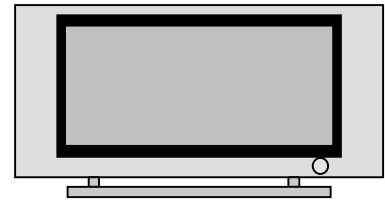
4. In case of occur strange screen into specific mode

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

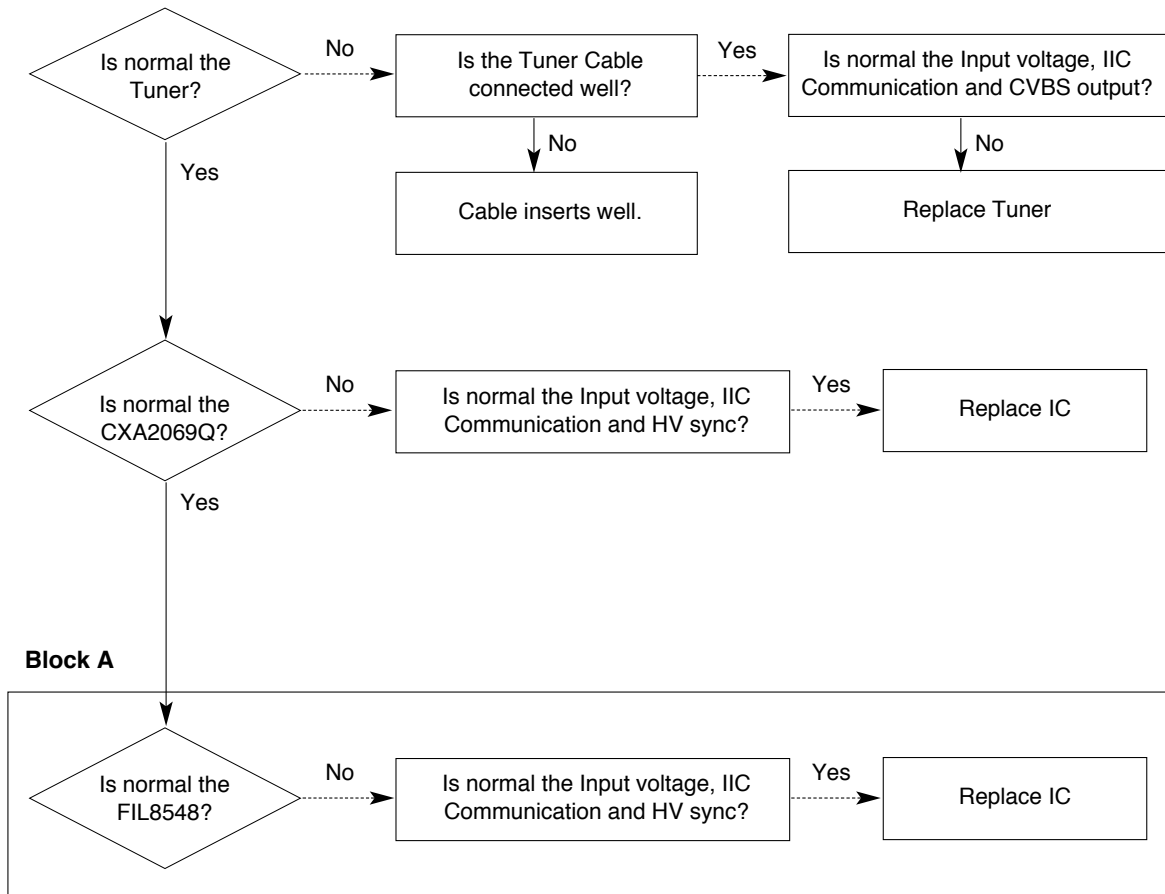
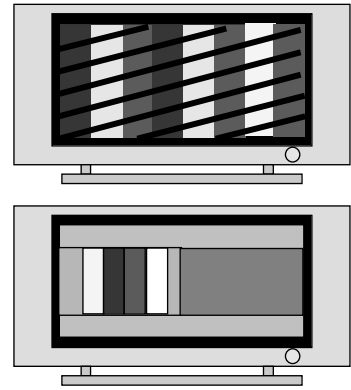
(1) Symptom

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

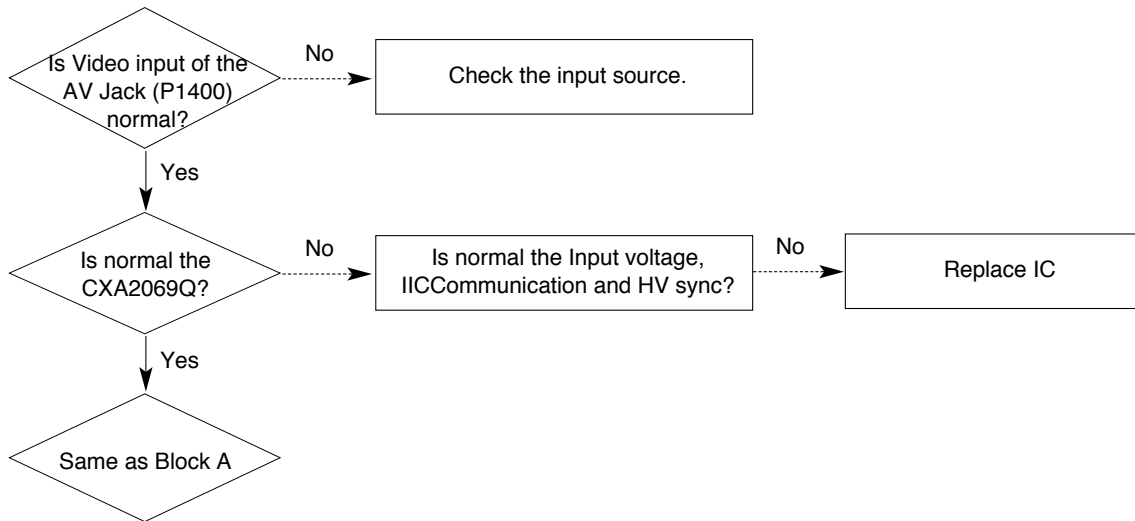
(2) Check follow

- (1) Check the all input mode should become normality display.
- (1) Check the Video(Main)/Data(Sub), Video(Main)/Video(Sub) should become normality display from the PIP mode or DW mode. (Re-Check it Swap)

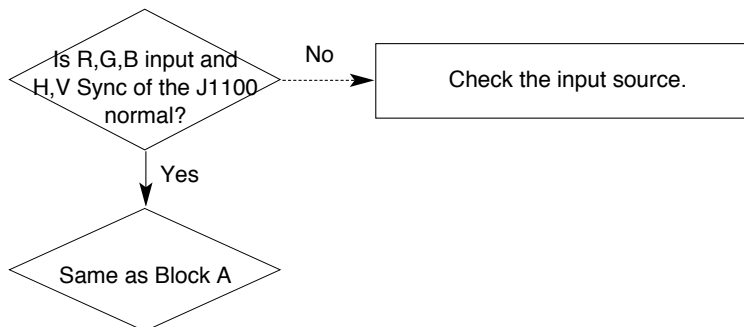
(3) In case of becomes unusual display from RF mode



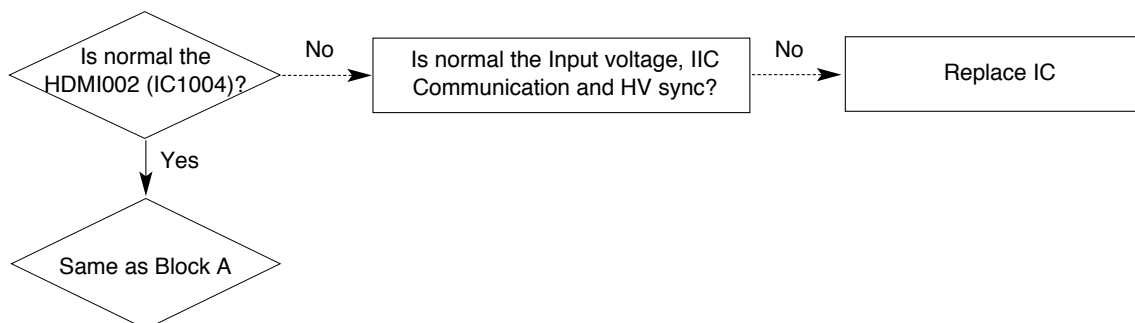
(4) In the case of becomes unusual display from side S-video/AV mode



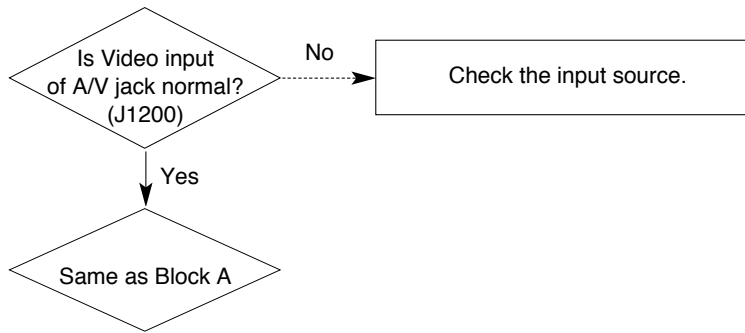
(5) In the case of becomes unusual display from Component, RGB mode



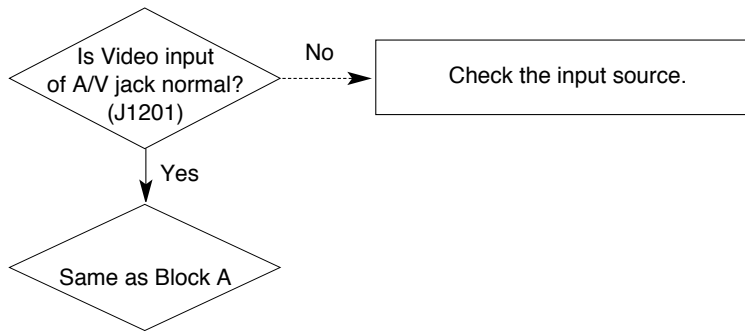
(6) In the case of becomes unusual display from HDMI mode



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



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

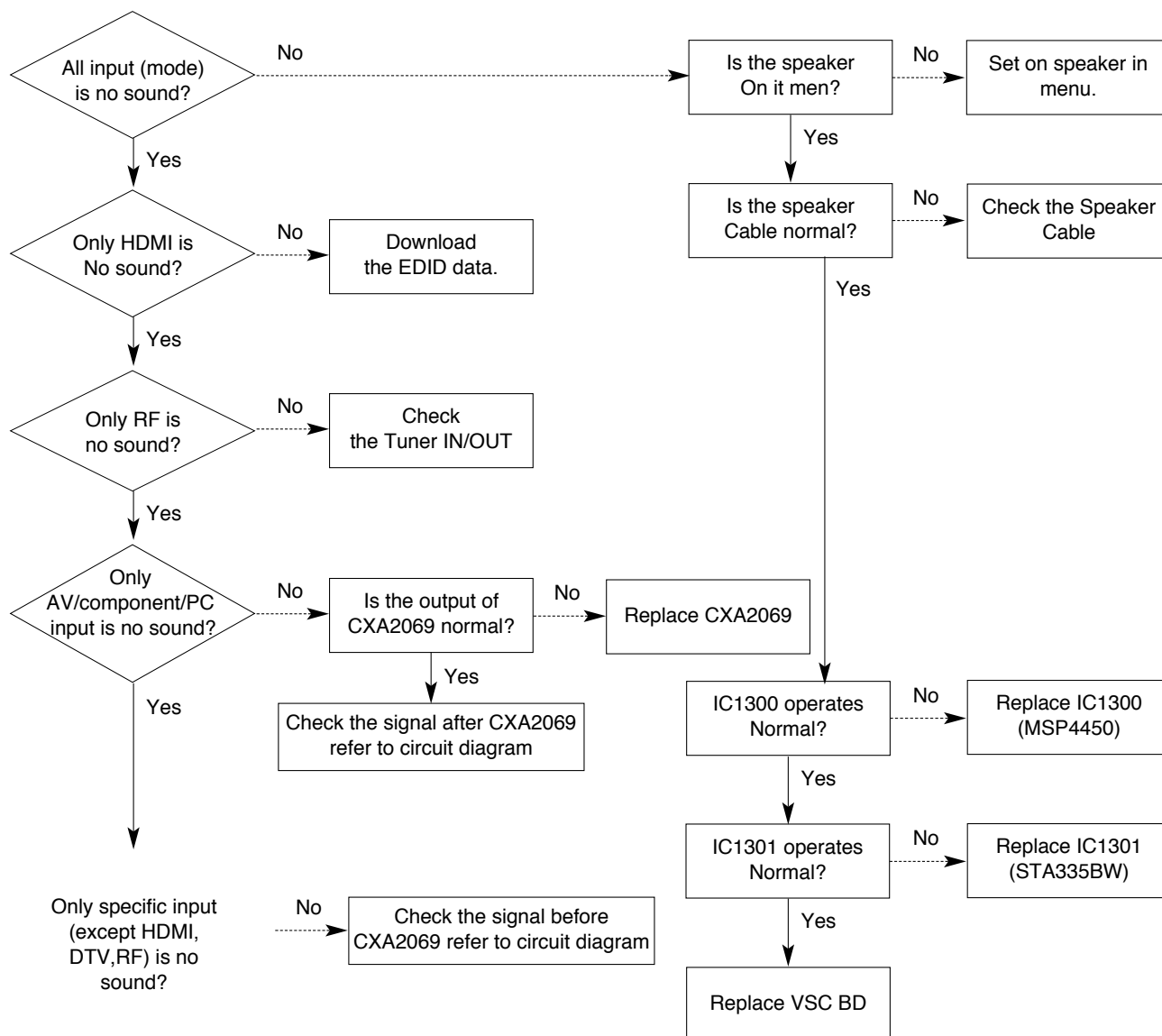
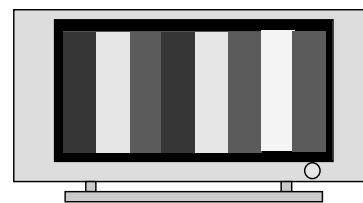


5. In case of no sound

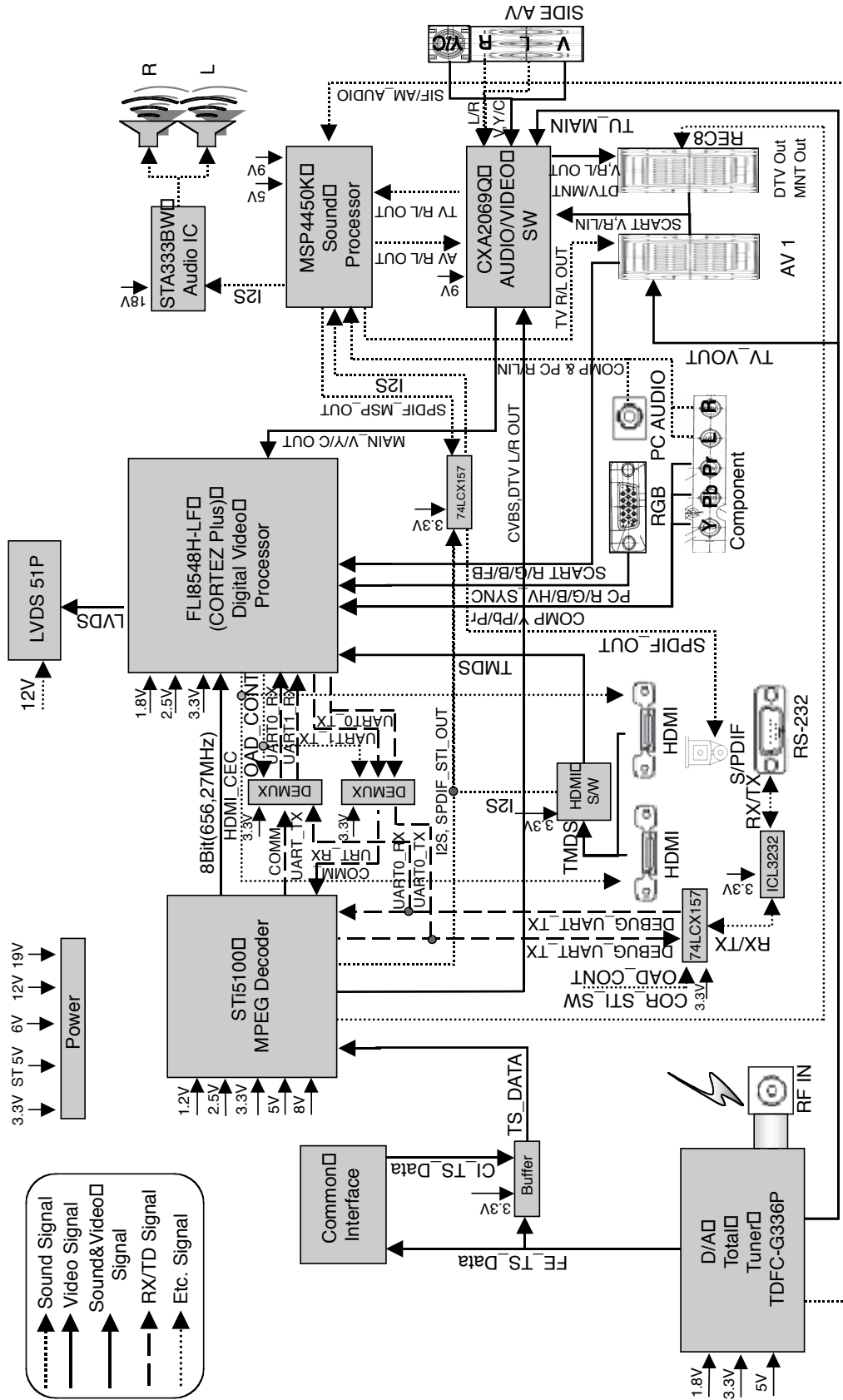
(1) Symptom

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

(2) Check follow

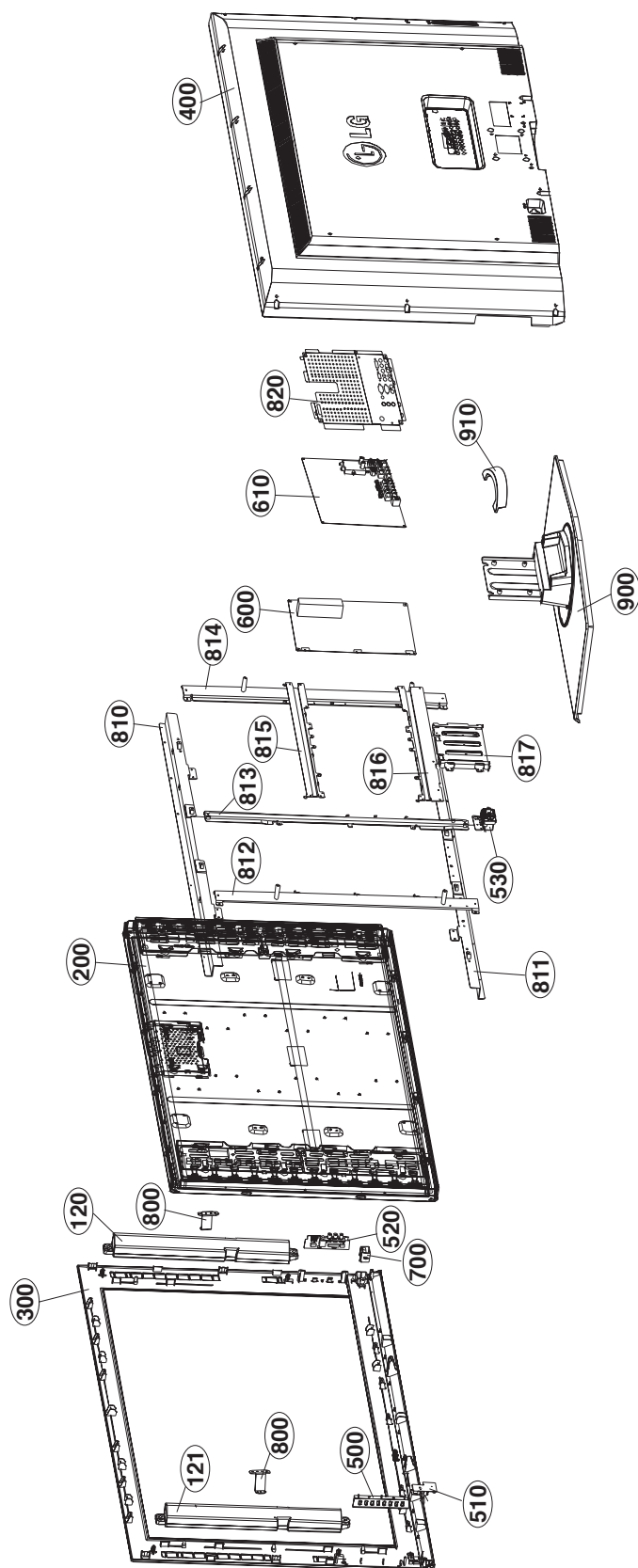


BLOCK DIAGRAM



MEMO

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
120	EAB33799401	Speaker Assembly, 37/42LY3 speaker assembly Left
121	EAB33799501	Speaker Assembly, 37/42LY3 speaker assembly right
⚠	200	EAJ35564901 LCD,Module-TFT, LC420WU2-SLC1 FULLHD 42INCH 1920X1080 500CD COLOR 90% 16/9 800:1(basic) DCR(4400:1) A-TW Pol. 10000K P7 LG PHILIPS LCD
⚠	300	ABJ31182307 Cabinet Assembly, 42LB3DF-ZA LD75A 42" FOR EU Europass3 for skd
⚠	400	ACQ31724911 Cover Assembly, 42LY95-ZA LD75A 42" B/C ASSY FOR EU Europass3
500	EBR36653501	PCB Assembly,Sub, SUB T.T LD75A 42LY3DF-ZA - CONTROL KEY TOTAL
510	EBR36652801	PCB Assembly,Sub, SUB T.T LD75A 42LY3DF-ZA - PRE_AMP TOTAL
520	EBR37990301	PCB Assembly, SUB T.T LD75A 47LY3DF-ZA - Side_AV Total
530	EBR36524801	PCB Assembly,Sub, SUB T.T LA71A 42LY3DR-NA AKRLLH AC-Inlet Ass'y Total
600	EAY32731102	SMPS,AC/DC, FSP286-6F02 90VTO264V 285W 50/60 UL/CSA/VDE/CB etc.... LCD 42inch PSU(SPI) - without metal shield model SPI ELECTRONIC CO.,LTD
610	EBR37368511	PCB Assembly, MAIN, T.T LD75A 42LY95-ZA SEKMLJG MAIN PCB Assembly for MA_SKD Without Tuner Assy
700	6500VR0003E	Sensor,Ambient Light, YGCA-T071C 12 HOUSING BK 26.4X20X26.4mm VOUT 5V(AT 80LUX) LG INNOTEK CO., LTD
800	MAZ31393902	Bracket, PRESS SBHG 2.0 MAIN 42ly3 LA62B STEEL SIDE PIECE
810	MGJ32902301	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LY3 METAL BAR TOP FOR LPL MODULE
811	MGJ32902407	Plate, PRESS EGI 1.6 FRAME SBHG-A 42LY3
812	MGJ32902501	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LY3 METAL BAR RIGHT
813	MGJ32902703	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LC4 METAL BAR CENTER('c')CE pem nut 'NO') LPL normal module
814	MGJ32902602	Plate, PRESS EGI 1.2 FRAME SBHG-A 42LC4 metal bar left ('c')CE pem-nut 'NO')
815	MGJ32902803	Plate, PRESS EGI 1.2 FRAME SBHG-A METAL BAR SIDE TOP FOR Europass3
816	MGJ32902903	Plate, PRESS EGI 1.2 FRAME SBHG-A METAL BAR SIDE BOTTOM FOR Europass3
817	MGJ32903002	Plate, PRESS EGI 1.6 FRAME SBHG-A 42LY3 METAL BAR SUPPORTER for skd
820	MJH32521102	Supporter, PRESS EGI 0.5t GUIDE EGI METAL, REAR SHIELD (47LB5DF-ZA)
⚠	900	AAN31183605 Base Assembly, STAND 42LY3 LD75A ASSY SILVER COLOR FOE SKD EURO_PASS
910	MAZ32904501	Bracket, MOLD ABS COVER 42LY3 LA71A ABS 42LY3 CABLE MANAGEMNET

REPLACEMENT PARTS LIST

DATE: 2007. 04. 22.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
ACCESSORY					
A1	MFL36914902	"Manual,Owners" PRINTING USER PD75A LG	C528	0CE227WF6DC	"Capacitor,AL,Chip" MVK8.0TP16VC220M 220uF
A2	6710V00142R	Remote Controller COMPLEX PD62A 60PY3DF-Z	C533	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
A3	6410TEW010A	Power Cord "CEE,LP-34A&H05VV-FX3C,L"	C534	0CE227WF6DC	"Capacitor,AL,Chip" MVK8.0TP16VC220M 220uF
A4	341-746B	Holder MOLD ABS CABLE Holder	C548	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
A5	EBY38115701	Circuit Diagram DIAGRAM LD75A ITALIAN .	C549	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
A6	SAC30033608	Title 60PY3DF-ZA CD MANUAL PD	C611	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
CAPACITORS			C612	0CE476WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC47M 47uF 20
C101	0CE107SF6DC	"Capacitor,AL,Chip" VMV107M016S0ANE010 100u	C613	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C102	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 20	C630	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C102	0CE107SF6DC	"Capacitor,AL,Chip" VMV107M016S0ANE010 100u	C638	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C1068	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C639	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C110	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 20	C640	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C118	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 20	C701	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1217	0CE106WH6DC	"Capacitor,AL,Chip" MVK5.0TP25VC10M 10uF 20	C705	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1225	0CE106WH6DC	"Capacitor,AL,Chip" MVK5.0TP25VC10M 10uF 20	C723	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1232	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C727	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1236	0CE106WH6DC	"Capacitor,AL,Chip" MVK5.0TP25VC10M 10uF 20	C736	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1237	0CE106WH6DC	"Capacitor,AL,Chip" MVK5.0TP25VC10M 10uF 20	C740	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1247	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C743	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1309	0CE475WK6DC	"Capacitor,AL,Chip" MVK5.0TP50VC4.7M 4.7uF	C758	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1310	0CE475WK6DC	"Capacitor,AL,Chip" MVK5.0TP50VC4.7M 4.7uF	C765	0CE476WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC47M 47uF 20
C1313	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20	C793	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1319	0CE335WK6D8	"Capacitor,AL,Chip" MVK4.0TP50VC3.3M 3.3uF	C796	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1325	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20	C797	0CE476WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC47M 47uF 20
C1341	0CE335WK6D8	"Capacitor,AL,Chip" MVK4.0TP50VC3.3M 3.3uF	C801	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1343	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C803	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1344	0CE106WH6DC	"Capacitor,AL,Chip" MVK5.0TP25VC10M 10uF 20	C822	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20
C1345	0CE106WH6DC	"Capacitor,AL,Chip" MVK5.0TP25VC10M 10uF 20	C835	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C1350	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 20	C852	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C1400	0CE475WK6DC	"Capacitor,AL,Chip" MVK5.0TP50VC4.7M 4.7uF	C853	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C1401	0CE475WK6DC	"Capacitor,AL,Chip" MVK5.0TP50VC4.7M 4.7uF	C901	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C1407	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20	C903	0CE476WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC47M 47uF 20
C1408	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C907	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C1410	0CE476WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC47M 47uF 20	C912	0CE476WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC47M 47uF 20
C1708	0CE226WF6DC	"Capacitor,AL,Chip" MVK5.0TP16VC22M 22uF 20	C915	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C181	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 20	C924	0CE107WH6DC	"Capacitor,AL,Chip" MVK8.0TP25VC100M 100uF
C226	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C925	0CE227WF6DC	"Capacitor,AL,Chip" MVK8.0TP16VC220M 220uF
C227	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C928	0CE227WF6DC	"Capacitor,AL,Chip" MVK8.0TP16VC220M 220uF
C412	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 20	C929	0CE227WF6DC	"Capacitor,AL,Chip" MVK8.0TP16VC220M 220uF
C414	0CE106WFKDC	"Capacitor,AL,Chip" MVK4.0TP16VC10M 10uF 20	C937	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C515	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C954	0CE477WF6DC	"Capacitor,AL,Chip" MVK10TP16VC470M 470uF 2
C517	0CE227WF6DC	"Capacitor,AL,Chip" MVK8.0TP16VC220M 220uF	C957	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C519	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C958	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C522	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C959	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C523	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C969	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C524	0CE477WF6DC	"Capacitor,AL,Chip" MVK10TP16VC470M 470uF 2	C970	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
C527	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF	C971	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
			C975	0CE107WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC100M 100uF
			C981	0CE476WF6DC	"Capacitor,AL,Chip" MVK6.3TP16VC47M 47uF 20
			C1302	0CE108EH618	"Capacitor,AL,Radial" KMG5.0TP25VB1000M 1000u

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C1	0CH3104K566	"Capacitor,Ceramic,Chip" 0805B104K500CT 100nF 10	C1205	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C100	0CC101CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H101JT 100pF 5	C1206	0CK102CK56A	"Capacitor,Ceramic,Chip" 0603B102K500CT 1nF 10%
C100	0CC101CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H101JT 100pF 5	C1207	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C100	0CC470CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H470JT 47pF 5%	C1208	0CK102CK56A	"Capacitor,Ceramic,Chip" 0603B102K500CT 1nF 10%
C1003	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C1209	0CC221CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H221JT 220pF 5
C1004	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C121	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1005	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C1210	0CC221CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H221JT 220pF 5
C1006	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C1211	0CC331CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H331JT 330pF 5
C1007	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1215	0CC331CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H331JT 330pF 5
C1008	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1216	0CC331CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H331JT 330pF 5
C1009	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C122	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C101	0CC101CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H101JT 100pF 5	C123	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C101	0CK103BH56A	"Capacitor,Ceramic,Chip" C1005X7R1E103KT- 10nF 1	C1234	0CK102CK56A	"Capacitor,Ceramic,Chip" 0603B102K500CT 1nF 10%
C101	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1235	0CK102CK56A	"Capacitor,Ceramic,Chip" 0603B102K500CT 1nF 10%
C1010	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1239	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C102	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C124	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C103	0CC470CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H470JT 47pF 5%	C1244	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C103	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1246	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C104	0CK105CD56A	"Capacitor,Ceramic,Chip" C1608X7R1A105KT 1uF 10%	C125	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C105	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C126	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C106	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C127	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C107	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C128	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C108	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C129	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C109	0CK105CD56A	"Capacitor,Ceramic,Chip" C1608X7R1A105KT 1uF 10%	C130	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1100	0CC100CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H100JT 10pF 5%	C1300	0CK105DH56A	"Capacitor,Ceramic,Chip" C2012X7R105KFT 1uF 10%
C1101	0CC100CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H100JT 10pF 5%	C1301	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1104	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C1303	0CK105DH56A	"Capacitor,Ceramic,Chip" C2012X7R105KFT 1uF 10%
C1105	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C1304	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1106	0CC120CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H120JT 12pF 5%	C1305	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1108	0CC120CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H120JT 12pF 5%	C1306	0CK222CK56A	"Capacitor,Ceramic,Chip" 0603B222K500CT 2.2nF 10
C1109	0CK4R7CKFDA	"Capacitor,Ceramic,Chip" 0603N4R7J500LT 4.7pF 5%	C1307	0CK682CK51A	"Capacitor,Ceramic,Chip" C1608Y5P1H682KT 6.8nF 1
C111	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1308	0CK682CK51A	"Capacitor,Ceramic,Chip" C1608Y5P1H682KT 6.8nF 1
C1110	0CK4R7CKFDA	"Capacitor,Ceramic,Chip" 0603N4R7J500LT 4.7pF 5%	C131	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1111	0CK4R7CKFDA	"Capacitor,Ceramic,Chip" 0603N4R7J500LT 4.7pF 5%	C1311	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1116	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1312	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C1119	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1314	0CC030CK01A	"Capacitor,Ceramic,Chip" 0603N3R0C500LT 3pF 0.25
C112	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1315	0CC030CK01A	"Capacitor,Ceramic,Chip" 0603N3R0C500LT 3pF 0.25
C1120	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1316	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1121	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1317	0CC560CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H560JT 56pF 5%
C1123	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1318	0CC560CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H560JT 56pF 5%
C1125	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C132	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1128	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1320	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C113	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1321	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C1132	0CC681CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H681JT 680pF 5	C1322	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C1133	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	C1326	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C1134	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	C1327	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1135	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1329	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C1136	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C133	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C114	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1330	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C115	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1332	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C116	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1333	0CC101CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H101JT 100pF 5
C117	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1335	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C119	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1338	0CK471CK56A	"Capacitor,Ceramic,Chip" C1608X7R1H471KT 470pF 1
C120	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C134	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1204	0CC221CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H221JT 220pF 5	C1340	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C1342	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1447	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C1346	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C1448	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2
C1347	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C1449	0CK225DFK4A	"Capacitor,Ceramic,Chip" C2012Y5V1C225MT 2.2uF 2
C135	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C145	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1351	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1450	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1352	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C1451	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1353	0CK222CK56A	"Capacitor,Ceramic,Chip" 0603B222K500CT 2.2nF 10	C1452	0CC150CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H150JT 15pF 5%
C1354	0CC102CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H102JT 1nF 5%	C1453	0CC150CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H150JT 15pF 5%
C1355	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C146	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1356	0CC101CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H101JT 100pF 5	C147	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1357	0CC221CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H221JT 220pF 5	C148	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1358	0CH2122K516	"Capacitor,Ceramic,Chip" 0805B122K500CT 1.2nF 10	C149	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1359	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C150	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C136	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C151	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1360	0CC331CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H331JT 330pF 5	C152	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1361	0CC331CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H331JT 330pF 5	C153	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1362	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C154	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1363	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C155	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1364	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C156	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1365	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C157	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1366	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C158	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1367	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C159	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1368	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C160	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1369	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C161	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C137	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C162	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1373	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	C163	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C138	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C164	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C139	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C165	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C140	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C166	0CK106EF56A	"Capacitor,Ceramic,Chip" C3216X7R1C106KT 10uF 10
C1402	0CK682CK51A	"Capacitor,Ceramic,Chip" C1608Y5P1H682KT 6.8nF 1	C167	0CK106EF56A	"Capacitor,Ceramic,Chip" C3216X7R1C106KT 10uF 10
C1403	0CK682CK51A	"Capacitor,Ceramic,Chip" C1608Y5P1H682KT 6.8nF 1	C168	0CK106EF56A	"Capacitor,Ceramic,Chip" C3216X7R1C106KT 10uF 10
C1404	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C169	0CC100CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H100JT 10pF 5%
C1409	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C170	0CC220CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H220JT 22pF 5%
C141	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1700	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1411	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	C1701	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10
C1412	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1702	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1413	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1703	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1418	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C1704	0CK475CC94A	"Capacitor,Ceramic,Chip" C1608Y5V0J475ZT 4.7uF -
C1419	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C1705	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C142	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C1706	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1420	0CK225DFK4A	"Capacitor,Ceramic,Chip" C2012Y5V1C225MT 2.2uF 2	C1707	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1421	0CC820CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H820JT 82pF 5%	C1709	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1422	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C171	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C1423	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C1710	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10
C1426	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C172	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C1428	0CK225DFK4A	"Capacitor,Ceramic,Chip" C2012Y5V1C225MT 2.2uF 2	C173	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1429	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C174	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C143	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C175	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C1439	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C176	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C144	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	C177	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%
C1440	0CK225DFK4A	"Capacitor,Ceramic,Chip" C2012Y5V1C225MT 2.2uF 2	C178	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1441	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C179	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1442	0CK225DFK4A	"Capacitor,Ceramic,Chip" C2012Y5V1C225MT 2.2uF 2	C180	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10
C1444	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	C182	0CK105CD56A	"Capacitor,Ceramic,Chip" C1608X7R1A105KT 1uF 10%
C1445	0CK225DFK4A	"Capacitor,Ceramic,Chip" C2012Y5V1C225MT 2.2uF 2	C183	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION		LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	
C184	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C430	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C185	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C516	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C186	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C518	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C187	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C520	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C188	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C521	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C189	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C525	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C190	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C526	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C191	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C529	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C192	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C530	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C193	0CK822CK46A	"Capacitor,Ceramic,Chip"	0603B822J500CT 8.2nF 10	C531	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C194	0CK822CK46A	"Capacitor,Ceramic,Chip"	0603B822J500CT 8.2nF 10	C532	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C195	0CC220CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H220JT 22pF 5%	C535	0CK105CD56A	"Capacitor,Ceramic,Chip"	C1608X7R1A105KT 1uF 10%
C196	0CC100CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H100JT 10pF 5%	C537	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C197	0CK475CC94A	"Capacitor,Ceramic,Chip"	C1608Y5V0J475ZT 4.7uF -	C539	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C198	0CK475CC94A	"Capacitor,Ceramic,Chip"	C1608Y5V0J475ZT 4.7uF -	C540	0CK105CD56A	"Capacitor,Ceramic,Chip"	C1608X7R1A105KT 1uF 10%
C199	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C550	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C200	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C551	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C201	0CC470CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H470JT 47pF 5%	C553	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C202	0CC101CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H101JT 100pF 5	C554	0CK105CD56A	"Capacitor,Ceramic,Chip"	C1608X7R1A105KT 1uF 10%
C203	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C555	0CK105CD56A	"Capacitor,Ceramic,Chip"	C1608X7R1A105KT 1uF 10%
C204	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C601	0CC101CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H101JT 100pF 5
C206	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C602	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C207	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C603	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C209	0CK106EF56A	"Capacitor,Ceramic,Chip"	C3216X7R1C106KT 10uF 10	C604	0CC470CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H470JT 47pF 5%
C212	0CK106EF56A	"Capacitor,Ceramic,Chip"	C3216X7R1C106KT 10uF 10	C605	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C213	0CK106EF56A	"Capacitor,Ceramic,Chip"	C3216X7R1C106KT 10uF 10	C606	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C216	0CK106EF56A	"Capacitor,Ceramic,Chip"	C3216X7R1C106KT 10uF 10	C608	0CC101CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H101JT 100pF 5
C218	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C609	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C219	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C610	0CC271CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H271JT 270pF 5
C220	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C615	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C221	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C616	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C222	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C623	0CC470CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H470JT 47pF 5%
C224	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C624	0CC470CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H470JT 47pF 5%
C228	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C625	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C229	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C626	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C230	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C627	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10
C231	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C633	0CK475CC94A	"Capacitor,Ceramic,Chip"	C1608Y5V0J475ZT 4.7uF -
C232	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C635	0CK472CK56A	"Capacitor,Ceramic,Chip"	0603B472K500CT 4.7nF 10
C233	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C636	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C234	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C637	0CK472CK56A	"Capacitor,Ceramic,Chip"	0603B472K500CT 4.7nF 10
C235	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C641	0CC470CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H470JT 47pF 5%
C236	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C642	0CC470CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H470JT 47pF 5%
C237	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C700	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C238	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C702	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C239	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C703	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C240	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C704	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C241	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C706	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C242	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C707	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C243	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C708	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C301	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C709	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C302	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C710	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C410	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C711	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C413	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C712	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C415	0CK104CF56A	"Capacitor,Ceramic,Chip"	0603B104K160CT 100nF 10	C713	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C429	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C714	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION		LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	
C715	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C780	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C716	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C781	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C717	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C782	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C718	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C783	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C720	0CC120CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H120JT 12pF 5%	C784	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C721	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C785	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C722	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C786	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C724	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C787	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C725	0CC200CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H200JT 20pF 5%	C788	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C726	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C789	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C728	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C790	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C729	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C791	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C730	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C792	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C732	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C794	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C733	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C795	0CC220CK41A	"Capacitor,Ceramic,Chip"	C1608C0G1H220JT 22pF 5%
C734	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C798	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C737	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C799	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C738	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C800	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C739	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C802	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C741	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C805	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C742	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C806	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C744	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C807	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C745	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C810	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C746	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C812	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C747	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C813	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C748	0CK475CC94A	"Capacitor,Ceramic,Chip"	C1608Y5V0J475ZT 4.7uF -	C814	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C749	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10	C815	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C750	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C817	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C751	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C818	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C752	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C824	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C753	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C826	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C754	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C828	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C755	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C830	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C756	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C831	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C757	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C834	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C759	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C836	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C760	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C838	0CK225DH94A	"Capacitor,Ceramic,Chip"	C2012Y5V225ZFT 2.2uF -2
C761	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C840	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C762	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C841	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C763	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C844	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C764	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C846	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C766	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C847	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10
C767	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C850	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C768	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C851	0CK225DFK4A	"Capacitor,Ceramic,Chip"	C2012Y5V1C225MT 2.2uF 2
C769	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C854	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C770	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C855	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C771	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C856	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%
C772	0CK103CK56A	"Capacitor,Ceramic,Chip"	0603B103K500CT 10nF 10%	C857	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C773	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C858	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C774	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10	C859	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C775	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C860	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C776	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C861	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C777	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C862	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C778	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C863	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10
C779	0CK104CK56A	"Capacitor,Ceramic,Chip"	0603B104K500CT 100nF 10	C864	0CK104BF56A	"Capacitor,Ceramic,Chip"	C1005X7R104KET 100nF 10

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C865	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	D104	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C866	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1100	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C867	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1101	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C868	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1104	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C869	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1105	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C870	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1106	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C871	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1107	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C872	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1108	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C873	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1109	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C874	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1112	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C875	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1113	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C876	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1114	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C877	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1201	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C878	0CK104BF56A	"Capacitor,Ceramic,Chip" C1005X7R104KET 100nF 10	ZD1202	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C900	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1203	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C905	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	ZD1211	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C908	0CK104CF56A	"Capacitor,Ceramic,Chip" 0603B104K160CT 100nF 10	ZD1212	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C909	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	ZD1218	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C910	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1219	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C911	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	ZD1220	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C914	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1221	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C917	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1222	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C931	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1223	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C932	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1224	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C933	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1226	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V
C934	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1228	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C935	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ZD1229	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19
C956	0CK474CH94A	"Capacitor,Ceramic,Chip" 0603F474Z250CT 470nF -2	ZD1300	0DZRM00248A	"Diode,Zener" RLZ8.2B 8.2V 7.78TO8.19
C960	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	ICs		
C961	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	IC1004	EAN33595101	"IC,Analog Multiplexer" STHDMI002A 3.135TO3.465
C962	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	IC1400	0ISO206900A	"IC,Analog Switch" CXA2069Q 8.5TO9.5V - -
C972	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	IC600	0IPRP00602A	"IC,Analog Switch" TPS2010ADR 2.7TO5.5V 8.
C973	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	IC1301	0ILNR00261C	"IC,Audio Amplifier" STA335BW 5TO26V 0 10% 2
C974	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	IC102	0ISTLPH026A	"IC,CMQS" 74LVC14APW 1.2TO3.6V 0.
C977	0CK104CK56A	"Capacitor,Ceramic,Chip" 0603B104K500CT 100nF 10	IC1101	0IPH741400E	"IC,CMQS" 74HC14D 2TO6V 0.002mA S
C980	0CK103CK56A	"Capacitor,Ceramic,Chip" 0603B103K500CT 10nF 10%	IC1104	0ITO741570C	"IC,CMQS" TC74LCX157FT 2TO3.6V 0.
ZD1102	0CC100CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H100JT 10pF 5%	IC1105	0IMCRFA018A	"IC,CMQS" NC7SB3157P6X_NL 1.65TO5
ZD1103	0CC100CK41A	"Capacitor,Ceramic,Chip" C1608C0G1H100JT 10pF 5%	IC1106	0IMCRFA018A	"IC,CMQS" NC7SB3157P6X_NL 1.65TO5
C1370	0CF4741L430	"Capacitor,Film,DIP" PCMT365 76474 470nF 5%	IC300	0ISTLPH003B	"IC,CMQS" 74LVC541APW 1.2TO3.6V 0
C1371	0CF4741L430	"Capacitor,Film,DIP" PCMT365 76474 470nF 5%	IC301	0IMCRFA013A	"IC,CMQS" 74LCX244MTC 2TO3.6V 0.0
DIODES			IC404	0ISTLPH026A	"IC,CMQS" 74LVC14APW 1.2TO3.6V 0.
D1000	0DD184009AA	Diode Assembly KDS184 KDS184 TP KEC -	IC410	0ITO741570C	"IC,CMQS" TC74LCX157FT 2TO3.6V 0.
D1001	0DD184009AA	Diode Assembly KDS184 KDS184 TP KEC -	IC100	0IPRP00703B	"IC,Data Controller" STI5100GUC 3.3V 5u 27M
D906	0DD100009AM	"Diode,Rectifier" EU1ZV(1) 200V 2.5V 10UA	IC800	EAN31729201	"IC,DDR SDRAM" HY5DU561622ETP-4 256MBI
D900	0DS226009AA	"Diode,Switching" KDS226 1.2V 85V 300MA 2	IC801	EAN31729201	"IC,DDR SDRAM" HY5DU561622ETP-4 256MBI
D902	0DS226009AA	"Diode,Switching" KDS226 1.2V 85V 300MA 2	IC1002	0IMMRAL014D	"IC,EEPROM" AT24C02BN-10SU-1.8 2KBI
D903	0DS226009AA	"Diode,Switching" KDS226 1.2V 85V 300MA 2	IC1003	0IMMRAL014D	"IC,EEPROM" AT24C02BN-10SU-1.8 2KBI
D904	0DS226009AA	"Diode,Switching" KDS226 1.2V 85V 300MA 2	IC103	0IMP242560A	"IC,EEPROM" 24LC256T-I/SM 256KBIT 2
D905	0DS226009AA	"Diode,Switching" KDS226 1.2V 85V 300MA 2	IC1100	0IMMRAL014D	"IC,EEPROM" AT24C02BN-10SU-1.8 2KBI
D100	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V	IC701	0IMP242560A	"IC,EEPROM" 24LC256T-I/SM 256KBIT 2
D101	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19	IC702	EAN34099701	"IC,EEPROM" M2404HEPROM 4KBIT 512 x
D102	EAH33946001	"Diode,TVS" CDS3C05GTA 5.6V 6.4V 19	IC500	0IMCRSJ001A	"IC,LDO Voltage Regulator" SC1565IST-1.8 2.2TO5.5V
D103	EAH33945901	"Diode,TVS" CDS3C30GTH 30V 50V 120V	IC501	0IPMG00027A	"IC,LDO Voltage Regulator" SC156515M-1.8TR 2.2TO5.
			IC502	0IMCRSJ001B	"IC,LDO Voltage Regulator" SC1565IST-2.5TR 2.2TO5V

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
IC503	0IPMGKE030A	"IC,LDO Voltage Regulator" KIA78R05F 6TO12V 5V 8W	L1412	6210TCE001E	"Filter,Bead" HB-1M2012-800JT(H:1mm)
IC504	0IPMGKE031A	"IC,LDO Voltage Regulator" KIA78R33F 4TO10V 3.3V 8	L1413	6210TCE001E	"Filter,Bead" HB-1M2012-800JT(H:1mm)
IC505	0IPMGKE031A	"IC,LDO Voltage Regulator" KIA78R33F 4TO10V 3.3V 8	L400	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC900	0IPMGFA061A	"IC,LDO Voltage Regulator" FAN1587AD33X 4.8TO10.3V	L606	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC901	0IPMGFA061A	"IC,LDO Voltage Regulator" FAN1587AD33X 4.8TO10.3V	L607	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC902	0IPMG00107A	"IC,LDO Voltage Regulator" AZ1117H-2.5TR/E1 15V 2.	L700	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC903	0IPMG00027A	"IC,LDO Voltage Regulator" SC156515M-1.8TR 2.2TO5.	L701	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC506	0ISTL00029A	"IC,OP Amplifier" MC33078DR2G +-5TO+-18V	L703	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC202	0IMMRIH038B	"IC,SDRAM" HYB25D(C)256160CE-5 256	L704	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC1300	0IMCRMN028C	"IC,Sound/Audio Processor" MSP4450K-QA-D6 7.6TO8.7	L705	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC1102	0IPRP00009A	"IC,Tx/Rx" ICL3232CBNZ 3VTO5.5V -	L706	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC700	EAN33595901	"IC,Video Processors" FLI8548H-LF-BE 300MVTO3	L707	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC200	0IPMG78391A	"IC,Voltage Regulator" SC2595STR 2.3TO5V 0 0W	L800	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC804	0IPMG78391A	"IC,Voltage Regulator" SC2595STR 2.3TO5V 0 0W	L801	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
IC904	EAN32662801	"IC,Voltage Regulator" KA7809ERTM 35V to 40V 9	L900	6210TCE001X	"Filter,Bead" HU-1H4532-121JT 120OHM
COILS & FILTERS & INDUCTORS			L907	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
F1	EAM36140902	"Filter,AC Line" IF-N06AEWL2 1.3mH 250VA	L909	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L100	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L911	6210TCE001X	"Filter,Bead" HU-1H4532-121JT 120OHM
L101	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L912	6210TCE001X	"Filter,Bead" HU-1H4532-121JT 120OHM
L102	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L913	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L103	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L918	6210TCE001X	"Filter,Bead" HU-1H4532-121JT 120OHM
L104	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L919	6210TCE001X	"Filter,Bead" HU-1H4532-121JT 120OHM
L105	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L923	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L106	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L925	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM
L108	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1404	EAM37276902	"Filter,LCR" LCF20P101-TM LPF(EMI) 1
L1101	6210TCE001L	"Filter,Bead" HB-1T2012-102JT 1000OHM	L1405	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1102	6210TCE001L	"Filter,Bead" HB-1T2012-102JT 1000OHM	L1406	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1104	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1407	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1105	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)	L1408	EAM37276902	"Filter,LCR" LCF20P101-TM LPF(EMI) 1
L1106	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)	L1409	EAM37276902	"Filter,LCR" LCF20P101-TM LPF(EMI) 1
L1107	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)	L1410	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1108	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)	L901	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1109	6210TCE001P	"Filter,Bead" HB-1S2012-121JT(H:1mm)	L902	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1205	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L903	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1206	6210TCE001Z	"Filter,Bead" HH-1M2012-600JT 600OHM 2	L904	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1207	6210TCE001Z	"Filter,Bead" HH-1M2012-600JT 600OHM 2	L905	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1208	6210TCE001Z	"Filter,Bead" HH-1M2012-600JT 600OHM 2	L906	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1211	6210TCE001L	"Filter,Bead" HB-1T2012-102JT 1000OHM	L908	EAM37574201	"Filter,LCR" LC-2012-250JT LPF(EMI)
L1212	6210TCE001L	"Filter,Bead" HB-1T2012-102JT 1000OHM	L100	0LC2000005K	"Inductor,Multilayer,Chip" FI-D2012-223KJT(CE) 22U
L1215	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L109	0LC1032101A	"Inductor,Multilayer,Chip" FI-C3216-103KJT 10UH 10
L1300	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1209	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1301	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1210	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1302	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1213	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1303	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1214	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1309	6210TCE001S	"Filter,Bead" HU-1M2012-121 120OHM 2X	L1216	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1310	6210TCE001S	"Filter,Bead" HU-1M2012-121 120OHM 2X	L1217	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1311	6210TCE001S	"Filter,Bead" HU-1M2012-121 120OHM 2X	L1218	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1312	6210TCE001S	"Filter,Bead" HU-1M2012-121 120OHM 2X	L1219	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1314	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1220	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1315	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1221	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1401	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1222	0LCML00020G	"Inductor,Multilayer,Chip" MLI-201209-3R3K 3.3UH 1
L1402	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L604	0LC0233002A	"Inductor,Multilayer,Chip" FI-B2012-332KJT 3.3UH 1
L1403	6210TCE001G	"Filter,Bead" HH-1M3216-501JT 500OHM	L1304	0LCTO00019A	"Inductor,Wire Wound,Chip" D75C-646CY-220M=P3
			L1305	0LCTO00019A	"Inductor,Wire Wound,Chip" D75C-646CY-220M=P3
			L1306	0LCTO00019A	"Inductor,Wire Wound,Chip" D75C-646CY-220M=P3

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
L1307	0LCTO00019A	"Inductor,Wire Wound,Chip" D75C-646CY-220M=P3	AR104	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
L600	0LCTA00003A	"Inductor,Wire Wound,Chip" LEMC3225T6R8M 6.8UH	AR105	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
L601	0LCTA00003A	"Inductor,Wire Wound,Chip" LEMC3225T6R8M 6.8UH	AR106	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
L605	0LCTA00003A	"Inductor,Wire Wound,Chip" LEMC3225T6R8M 6.8UH	AR107	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
TRANSISTORS & FETs			AR108	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
IC803	EBK32753101	FET SI4925BDY P-CHANNEL MOS	AR109	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
Q1001	0TR830009BA	FET BSS83 N-CHANNEL MOSFET	AR110	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
Q100	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR111	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1
Q101	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR200	0RJ0222C687	"Resistor,Array" RCA86TRJ22R0 22OHM 5% 1
Q1100	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR201	0RJ0222C687	"Resistor,Array" RCA86TRJ22R0 22OHM 5% 1
Q1200	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR202	0RJ0222C687	"Resistor,Array" RCA86TRJ22R0 22OHM 5% 1
Q1201	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR203	0RJ0222C687	"Resistor,Array" RCA86TRJ22R0 22OHM 5% 1
Q1202	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR204	0RJ0222C687	"Resistor,Array" RCA86TRJ22R0 22OHM 5% 1
Q1203	0TR102009AM	"TR,Bipolar" KRA102S PNP -30V 0V -50	AR205	0RJ0222C687	"Resistor,Array" RCA86TRJ22R0 22OHM 5% 1
Q1204	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR206	0RJ0222C687	"Resistor,Array" RCA86TRJ22R0 22OHM 5% 1
Q1300	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR700	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1301	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR701	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1302	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR702	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1303	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR706	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1304	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR707	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1305	0TR102009AM	"TR,Bipolar" KRA102S PNP -30V 0V -50	AR708	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1400	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR709	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1401	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR710	0RZZH033273	"Resistor,Array" MNR04M0ABJ330 33OHM 5%
Q1402	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR800	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q1403	0TR150400BA	"TR,Bipolar" 2SA1504S(ASY) PNP -5V -	AR801	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q1404	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR802	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q400	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR803	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q401	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR804	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q402	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR805	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q500	0TR102009AM	"TR,Bipolar" KRA102S PNP -30V 0V -50	AR806	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q502	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR807	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q503	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR808	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q504	0TR150400BA	"TR,Bipolar" 2SA1504S(ASY) PNP -5V -	AR809	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q602	0TR150400BA	"TR,Bipolar" 2SA1504S(ASY) PNP -5V -	AR810	EBC32260601	"Resistor,Array" MNR04M0APJ101 100OHM 5%
Q603	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R1363	0RD3301A609	"Resistor,Carbon Film" RDM92T1J3K30 3.3KOHM 5%
Q604	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	AR703	0RJ0222C692	"Resistor,Chip" MNR04 M0APJ 220 22OHM 5
Q606	0TR150400BA	"TR,Bipolar" 2SA1504S(ASY) PNP -5V -	AR704	0RJ0222C692	"Resistor,Chip" MNR04 M0APJ 220 22OHM 5
Q607	0TR150400BA	"TR,Bipolar" 2SA1504S(ASY) PNP -5V -	R100	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
Q608	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R100	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
Q609	0TR150400BA	"TR,Bipolar" 2SA1504S(ASY) PNP -5V -	R101	0RH1100D622	"Resistor,Chip" MCR10EZHJ111 110OHM 5%
Q800	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R101	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
Q900	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R101	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 75OHM 5% 1
Q901	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R1016	0RJ0222D677	"Resistor,Chip" MCR03EJPJ220 22OHM 5% 1
Q902	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R1017	0RJ0222D677	"Resistor,Chip" MCR03EJPJ220 22OHM 5% 1
Q903	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R1018	0RJ6800D677	"Resistor,Chip" MCR03EJPJ681 680OHM 5%
Q904	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R1019	0RJ0222D677	"Resistor,Chip" MCR03EJPJ220 22OHM 5% 1
Q905	0TR387500AA	"TR,Bipolar" 2SC3875S(ALY) NPN 5V 60	R102	0RH1101D622	"Resistor,Chip" MCR10EZHJ112 1.1KOHM 5%
RESISTORS			R102	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
AR100	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1	R102	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 47OHM 5% 1
AR101	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1	R102	0RJ4700D677	"Resistor,Chip" MCR03EJPJ471 470OHM 5%
AR102	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1	R1020	0RJ6800D677	"Resistor,Chip" MCR03EJPJ681 680OHM 5%
AR103	0RJ0472C687	"Resistor,Array" RCA86TRJ47R0 47OHM 5% 1	R1021	0RJ0222D677	"Resistor,Chip" MCR03EJPJ220 22OHM 5% 1
			R1022	0RJ0222D677	"Resistor,Chip" MCR03EJPJ220 22OHM 5% 1
			R1023	0RJ0222D677	"Resistor,Chip" MCR03EJPJ220 22OHM 5% 1
			R103	0RH3301D622	"Resistor,Chip" MCR10EZHJ332 3.3KOHM 5%

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R103	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470HM 5% 1	R1119	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1
R103	0RJ2002D677	"Resistor,Chip" MCR03EJPJ203. 20KOHM 5%	R112	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R103	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%	R112	0RJ2002D677	"Resistor,Chip" MCR03EJPJ203. 20KOHM 5%
R1038	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1120	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%
R1039	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1121	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1
R104	0RH9101D622	"Resistor,Chip" MCR10EZHJ912 9.1KOHM 5%	R1122	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%
R104	0RJ1302D677	"Resistor,Chip" MCR03EJPJ133 13KOHM 5%	R1123	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R104	0RJ4700D677	"Resistor,Chip" MCR03EJPJ471 470OHM 5%	R1124	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1040	0RJ4702D677	"Resistor,Chip" MCR03EJPJ473 47KOHM 5%	R1125	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1041	0RJ4702D677	"Resistor,Chip" MCR03EJPJ473 47KOHM 5%	R1126	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1
R1042	0RJ4702D677	"Resistor,Chip" MCR03EJPJ473 47KOHM 5%	R1127	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1043	0RJ4702D677	"Resistor,Chip" MCR03EJPJ473 47KOHM 5%	R1128	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1044	0RJ3301D677	"Resistor,Chip" MCR03EJPJ332 3.3KOHM 5%	R1129	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1049	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R113	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R105	0RH1100D622	"Resistor,Chip" MCR10EZHJ111 110OHM 5%	R1130	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R105	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1131	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R105	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%	R1133	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R105	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%	R1134	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1050	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1135	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1
R1052	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1136	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1053	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1137	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1056	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%	R1139	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1057	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%	R114	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1058	0RJ1003D677	"Resistor,Chip" MCR03EJPJ104 100KOHM 5%	R1140	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1059	0RJ2702D677	"Resistor,Chip" MCR03EJPJ273 27KOHM 5%	R1141	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R106	0RH1101D622	"Resistor,Chip" MCR10EZHJ112 1.1KOHM 5%	R1148	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R106	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1150	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R106	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1151	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R106	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1152	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1060	0RJ3302D677	"Resistor,Chip" MCR03EJPJ333 33KOHM 5%	R1157	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1061	0RJ3302D677	"Resistor,Chip" MCR03EJPJ333 33KOHM 5%	R1158	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1065	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1161	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R107	0RH3301D622	"Resistor,Chip" MCR10EZHJ332 3.3KOHM 5%	R1162	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%
R107	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 750HM 5% 1	R1164	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R108	0RH9101D622	"Resistor,Chip" MCR10EZHJ912 9.1KOHM 5%	R1165	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R108	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1166	0RJ3301D677	"Resistor,Chip" MCR03EJPJ332 3.3KOHM 5%
R109	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/	R1171	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R109	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 750HM 5% 1	R1185	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R110	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/	R1186	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R110	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R119	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R110	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%	R120	0RJ1802D677	"Resistor,Chip" MCR03EJPJ183 18KOHM 5%
R1101	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%	R1200	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 750HM 5% 1
R1102	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1	R1201	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1103	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%	R1202	0RJ0682D677	"Resistor,Chip" MCR03EJPJ680 68OHM 5% 1
R1104	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1203	0RJ4703D677	"Resistor,Chip" MCR03EJPJ474 470KOHM 5%
R1107	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%	R1204	0RJ4702D677	"Resistor,Chip" MCR03EJPJ473 47KOHM 5%
R1108	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%	R1205	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%
R111	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%	R1207	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%
R111	0RJ3301D677	"Resistor,Chip" MCR03EJPJ332 3.3KOHM 5%	R1209	0RJ3002D677	"Resistor,Chip" MCR03EJPJ303 30KOHM 5%
R1113	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 750HM 5% 1	R121	0RJ1202D677	"Resistor,Chip" MCR03EJPJ123 12KOHM 5%
R1114	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%	R1210	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%
R1115	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 750HM 5% 1	R1211	0RJ4703D677	"Resistor,Chip" MCR03EJPJ474 470KOHM 5%
R1116	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%	R1212	0RJ2203D677	"Resistor,Chip" MCR03EJPJ224 220KOHM 5%
R1117	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 750HM 5% 1	R1213	0RJ4703D677	"Resistor,Chip" MCR03EJPJ474 470KOHM 5%
R1118	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1	R1214	0RJ0752D677	"Resistor,Chip" MCR03EJPJ750 750HM 5% 1

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R1215	0RJ1001D477	"Resistor,Chip" MCR03EZPF102 1KOHM 1% 1	R1288	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R1216	0RJ1001D477	"Resistor,Chip" MCR03EZPF102 1KOHM 1% 1	R1289	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R1219	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R129	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1
R122	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1	R1290	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R1220	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5%	R1291	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R1221	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1292	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R1222	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1293	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R1223	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5%	R1300	0RJ6202D677	"Resistor,Chip" MCR03EZPJ623 62KOHM 5%
R1224	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	R1301	0RJ2402D677	"Resistor,Chip" MCR03EZPJ243 24KOHM 5%
R1225	0RJ1001D477	"Resistor,Chip" MCR03EZPF102 1KOHM 1% 1	R1302	0RJ4700D677	"Resistor,Chip" MCR03EZPJ471 470OHM 5%
R1226	0RJ1001D477	"Resistor,Chip" MCR03EZPF102 1KOHM 1% 1	R1303	0RJ1501D677	"Resistor,Chip" MCR03EZPJ152 1.5KOHM 5%
R1227	0RJ2201D477	"Resistor,Chip" MCR03EZPF222 2.2KOHM 1%	R1304	0RJ0432D677	"Resistor,Chip" MCR03EZPJ430 43OHM 5% 1
R1228	0RJ2201D477	"Resistor,Chip" MCR03EZPF222 2.2KOHM 1%	R1305	0RJ0432D677	"Resistor,Chip" MCR03EZPJ430 43OHM 5% 1
R1229	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1307	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R123	0RJ0472C678	"Resistor,Chip" MCR01MZPJ470 47OHM 5% 1	R1308	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R1230	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1309	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R1231	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	R131	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1
R1235	0RJ4703D677	"Resistor,Chip" MCR03EZPJ474 470KOHM 5%	R1310	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/
R1236	0RJ4703D677	"Resistor,Chip" MCR03EZPJ474 470KOHM 5%	R1311	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R1237	0RJ1001D477	"Resistor,Chip" MCR03EZPF102 1KOHM 1% 1	R1312	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R1238	0RJ1001D477	"Resistor,Chip" MCR03EZPF102 1KOHM 1% 1	R1313	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R1239	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	R1314	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%
R124	0RJ1200C678	"Resistor,Chip" MCR01MZPJ121 120OHM 5%	R1315	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1
R1240	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1316	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1
R1241	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1317	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5%
R1242	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1318	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5%
R1243	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1319	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/
R1244	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1320	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/
R1245	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1321	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5% 1
R125	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1	R1322	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5% 1
R1259	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	R1323	0RJ4703D677	"Resistor,Chip" MCR03EZPJ474 470KOHM 5%
R126	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1	R1324	0RJ4703D677	"Resistor,Chip" MCR03EZPJ474 470KOHM 5%
R1260	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5% 1	R1327	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/
R1261	0RJ2001D677	"Resistor,Chip" MCR03EZPJ202 2KOHM 5% 1	R1328	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R1262	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	R1329	0RJ0101D677	"Resistor,Chip" MCR03EZPJ1R0 1OHM 5% 1/
R1263	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	R133	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1
R1264	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	R1330	0RJ0101D677	"Resistor,Chip" MCR03EZPJ1R0 1OHM 5% 1/
R1270	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	R1331	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R1271	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	R1332	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R1273	0RJ3301D677	"Resistor,Chip" MCR03EZPJ332 3.3KOHM 5%	R1333	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R1274	0RJ0752D677	"Resistor,Chip" MCR03EZPJ750 75OHM 5% 1	R1334	0RJ2200D677	"Resistor,Chip" MCR03EZPJ221 220OHM 5%
R1275	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	R1338	0RJ3901D677	"Resistor,Chip" MCR03EZPJ392 3.9KOHM 5%
R1276	0RJ3002D677	"Resistor,Chip" MCR03EZPJ303 30KOHM 5%	R134	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1
R1277	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5%	R1345	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5%
R1278	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5%	R1346	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5%
R1279	0RJ4702D677	"Resistor,Chip" MCR03EZPJ473 47KOHM 5%	R1347	0RJ0392D677	"Resistor,Chip" MCR03EZPJ390 39OHM 5% 1
R128	0RJ0472D677	"Resistor,Chip" MCR03EZPJ470 47OHM 5% 1	R1348	0RJ0392D677	"Resistor,Chip" MCR03EZPJ390 39OHM 5% 1
R1280	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	R1349	0RJ0392D677	"Resistor,Chip" MCR03EZPJ390 39OHM 5% 1
R1281	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	R1350	0RJ0392D677	"Resistor,Chip" MCR03EZPJ390 39OHM 5% 1
R1282	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5%	R1351	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5% 1
R1283	0RJ2203D677	"Resistor,Chip" MCR03EZPJ224 220KOHM 5%	R1352	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5% 1
R1284	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/	R1353	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5% 1
R1285	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/	R1354	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5% 1
R1286	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/	R1355	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5% 1
R1287	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/	R1356	0RJ0122D677	"Resistor,Chip" MCR03EZPJ120 12OHM 5% 1

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1357	0RJ0122D677	"Resistor,Chip" MCR03EJPJ120 120OHM 5% 1	R1460	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R1358	0RJ0122D677	"Resistor,Chip" MCR03EJPJ120 120OHM 5% 1	R1461	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R1359	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1462	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R136	0RJ0472C678	"Resistor,Chip" MCR01MZPJ470 470OHM 5% 1	R1463	0RJ1003D677	"Resistor,Chip" MCR03EJPJ104 100KOHM 5%
R1360	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1465	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R1361	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1466	0RJ1201C678	"Resistor,Chip" MCR01MZPJ122 1.2KOHM 5%
R1362	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1467	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1
R1364	0RJ7500D677	"Resistor,Chip" MCR03EJPJ751 750OHM 5%	R1468	0RJ1201C678	"Resistor,Chip" MCR01MZPJ122 1.2KOHM 5%
R1365	0RJ7500D677	"Resistor,Chip" MCR03EJPJ751 750OHM 5%	R1469	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R1366	0RJ7500D677	"Resistor,Chip" MCR03EJPJ751 750OHM 5%	R147	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R137	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1	R1477	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R138	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%	R1478	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R139	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1	R148	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R140	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1	R149	0RJ2701D677	"Resistor,Chip" MCR03EJPJ272 2.7KOHM 5%
R1400	0RJ1501D677	"Resistor,Chip" MCR03EJPJ152 1.5KOHM 5%	R150	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R1401	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%	R151	0RJ0472C678	"Resistor,Chip" MCR01MZPJ470 470OHM 5% 1
R1402	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R152	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R1403	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R153	0RJ0472C678	"Resistor,Chip" MCR01MZPJ470 470OHM 5% 1
R1404	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1	R154	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1405	0RJ1001D677	"Resistor,Chip" MCR03EJPJ102 1KOHM 5% 1	R155	0RJ3303D677	"Resistor,Chip" MCR03EJPJ334 330KOHM 5%
R1406	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R157	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R1407	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1607	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1408	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R1608	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1409	0RJ1500D677	"Resistor,Chip" MCR03EJPJ151 150OHM 5%	R1609	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1410	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R162	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R1411	0RJ2200D677	"Resistor,Chip" MCR03EJPJ221 220OHM 5%	R163	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R1412	0RJ2200D677	"Resistor,Chip" MCR03EJPJ221 220OHM 5%	R164	0RJ1202D677	"Resistor,Chip" MCR03EJPJ123 12KOHM 5%
R1413	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/	R165	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1414	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R166	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1
R1415	0RJ2200D677	"Resistor,Chip" MCR03EJPJ221 220OHM 5%	R167	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1416	0RJ2200D677	"Resistor,Chip" MCR03EJPJ221 220OHM 5%	R168	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1417	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R169	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1418	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R170	0RJ0000D677	"Resistor,Chip" MCR03EJPJ000 0OHM 5% 1/
R1419	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R1703	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R142	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1	R1704	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R1420	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R1706	0RJ0332C678	"Resistor,Chip" MCR01MZPJ330 330OHM 5% 1
R1421	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R1708	0RJ0332D677	"Resistor,Chip" MCR03EJPJ330 330OHM 5% 1
R1422	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R1709	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1423	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R1710	0RJ0222C678	"Resistor,Chip" MCR01MZPJ220 220OHM 5% 1
R1429	0RJ1001C678	"Resistor,Chip" MCR01MZPJ102 1KOHM 5% 1	R1713	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%
R143	0RJ2701D677	"Resistor,Chip" MCR03EJPJ272 2.7KOHM 5%	R1714	0RJ0000C678	"Resistor,Chip" MCR01MZPJ000 0OHM 5% 1/
R1430	0RJ1201C678	"Resistor,Chip" MCR01MZPJ122 1.2KOHM 5%	R1714	0RJ0222C678	"Resistor,Chip" MCR01MZPJ220 220OHM 5% 1
R1431	0RJ1201C678	"Resistor,Chip" MCR01MZPJ122 1.2KOHM 5%	R1715	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R1433	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	R1716	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R1436	0RJ1201C678	"Resistor,Chip" MCR01MZPJ122 1.2KOHM 5%	R1717	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1438	0RJ1201C678	"Resistor,Chip" MCR01MZPJ122 1.2KOHM 5%	R1718	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R1439	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	R1719	0RJ0332D677	"Resistor,Chip" MCR03EJPJ330 330OHM 5% 1
R144	0RJ0472D677	"Resistor,Chip" MCR03EJPJ470 470OHM 5% 1	R1720	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%
R145	0RJ2701D677	"Resistor,Chip" MCR03EJPJ272 2.7KOHM 5%	R1721	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%
R1452	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%	R1722	0RJ1002D677	"Resistor,Chip" MCR03EJPJ103 10KOHM 5%
R1453	0RJ4703D677	"Resistor,Chip" MCR03EJPJ474 470KOHM 5%	R1724	0RJ0332C678	"Resistor,Chip" MCR01MZPJ330 330OHM 5% 1
R1454	0RJ4703D677	"Resistor,Chip" MCR03EJPJ474 470KOHM 5%	R1725	0RJ0000C678	"Resistor,Chip" MCR01MZPJ000 0OHM 5% 1/
R1455	0RJ4701D677	"Resistor,Chip" MCR03EJPJ472 4.7KOHM 5%	R1725	0RJ0222C678	"Resistor,Chip" MCR01MZPJ220 220OHM 5% 1
R1456	0RJ1501D677	"Resistor,Chip" MCR03EJPJ152 1.5KOHM 5%	R1726	0RJ1000D677	"Resistor,Chip" MCR03EJPJ101 100OHM 5%
R146	0RJ2701D677	"Resistor,Chip" MCR03EJPJ272 2.7KOHM 5%	R1727	0RJ0332D677	"Resistor,Chip" MCR03EJPJ330 330OHM 5% 1

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R230	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R544	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%
R231	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R547	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R232	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R548	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R233	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R550	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/
R234	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R554	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R235	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R555	0RJ2202D677	"Resistor,Chip" MCR03EZIPJ223 22KOHM 5%
R236	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R556	0RJ4302D677	"Resistor,Chip" MCR03EZIPJ433 43KOHM 5%
R237	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R557	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1
R238	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R558	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R239	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R600	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R241	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R603	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R242	0RJ0222C678	"Resistor,Chip" MCR01MZIPJ220 22OHM 5% 1	R604	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R243	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R605	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R244	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R606	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R245	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R607	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R246	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R608	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R247	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R609	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R248	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R610	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R249	0RJ0222C678	"Resistor,Chip" MCR01MZIPJ220 22OHM 5% 1	R611	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R250	0RJ0222C678	"Resistor,Chip" MCR01MZIPJ220 22OHM 5% 1	R612	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R251	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R613	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/
R255	0RJ4701D477	"Resistor,Chip" MCR03EZPF472 4.7KOHM 1%	R624	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R256	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%	R625	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R257	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R626	0RJ0332D677	"Resistor,Chip" MCR03EZIPJ330 33OHM 5% 1
R258	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R627	0RJ1003D677	"Resistor,Chip" MCR03EZIPJ104 100KOHM 5%
R259	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R629	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R260	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R632	0RJ0472D677	"Resistor,Chip" MCR03EZIPJ470 47OHM 5% 1
R403	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%	R633	0RJ0472D677	"Resistor,Chip" MCR03EZIPJ470 47OHM 5% 1
R407	0RJ1202D677	"Resistor,Chip" MCR03EZIPJ123 12KOHM 5%	R636	0RJ4701D677	"Resistor,Chip" MCR03EZIPJ472 4.7KOHM 5%
R414	0RJ1001D677	"Resistor,Chip" MCR03EZIPJ102 1KOHM 5% 1	R637	0RJ4700D677	"Resistor,Chip" MCR03EZIPJ471 470OHM 5%
R415	0RJ1001D677	"Resistor,Chip" MCR03EZIPJ102 1KOHM 5% 1	R639	0RJ0822D677	"Resistor,Chip" MCR03EZIPJ820 82OHM 5% 1
R416	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/	R640	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/
R417	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/	R642	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%
R422	0RJ4701D677	"Resistor,Chip" MCR03EZIPJ472 4.7KOHM 5%	R644	0RJ1001D677	"Resistor,Chip" MCR03EZIPJ102 1KOHM 5% 1
R437	0RJ0222D677	"Resistor,Chip" MCR03EZIPJ220 22OHM 5% 1	R646	0RJ2700D677	"Resistor,Chip" MCR03EZIPJ271 270OHM 5%
R438	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/	R647	0RJ2200D677	"Resistor,Chip" MCR03EZIPJ221 220OHM 5%
R439	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R648	0RJ1001D677	"Resistor,Chip" MCR03EZIPJ102 1KOHM 5% 1
R441	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R649	0RJ1500D677	"Resistor,Chip" MCR03EZIPJ151 150OHM 5%
R446	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R650	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%
R448	0RJ1000D677	"Resistor,Chip" MCR03EZIPJ101 100OHM 5%	R651	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/
R521	EBC32306001	"Resistor,Chip" MCR03EZIP5FX9100 910OHM	R652	0RJ2001D677	"Resistor,Chip" MCR03EZIPJ202 2KOHM 5% 1
R522	0RJ9311D477	"Resistor,Chip" MCR03EZPF9311 9.31KOHM	R653	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%
R523	0RJ1001D677	"Resistor,Chip" MCR03EZIPJ102 1KOHM 5% 1	R654	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/
R524	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/	R655	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%
R526	0RJ2001D677	"Resistor,Chip" MCR03EZIPJ202 2KOHM 5% 1	R657	0RJ0102D677	"Resistor,Chip" MCR03EZIPJ100 10OHM 5% 1
R527	0RJ2001D677	"Resistor,Chip" MCR03EZIPJ202 2KOHM 5% 1	R658	0RJ2201D677	"Resistor,Chip" MCR03EZIPJ222 2.2KOHM 5%
R528	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/	R659	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/
R531	0RJ0000D677	"Resistor,Chip" MCR03EZIPJ000 0OHM 5% 1/	R662	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R534	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%	R663	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R536	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%	R664	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R537	0RJ1502D677	"Resistor,Chip" MCR03EZIPJ153 15KOHM 5%	R665	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R539	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%	R666	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R540	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%	R667	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R541	0RJ1002D677	"Resistor,Chip" MCR03EZIPJ103 10KOHM 5%	R668	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/
R543	0RJ1502D677	"Resistor,Chip" MCR03EZIPJ153 15KOHM 5%	R669	0RH0000D622	"Resistor,Chip" MCR10EZHJ000 0OHM 5% 1/

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R810	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	R933	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1
R811	0RJ0222D677	"Resistor,Chip" MCR03EZPJ220 22OHM 5% 1	R934	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%
R812	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	OTHERs		
R813	0RJ0222C678	"Resistor,Chip" MCR01MZPJ220 22OHM 5% 1	X100	6212AC2002B	Crystal 9H03200164 32.768KHZ 20
R816	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	X101	6212AB2883A	Crystal HC-49SM 27.00000MHZ 27M
R818	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	X1300	156-A02R	Crystal EUA18.4320F16E33L 18.43
R821	0RJ1500C678	"Resistor,Chip" MCR01MZPJ151 150OHM 5%	X700	6212AB2015J	Crystal HC-49SM 19.66080HZ 19.6
R822	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	JK100	6612J10033A	"Jack,Complex" PMJ016-13 13P DIN/RCA 1
R823	0RJ3000C678	"Resistor,Chip" MCR01MZPJ301 300OHM 5%	J1000	6612B00015B	"Jack,DIN" DC1R019WDH SOCKET 21P S
R825	0RJ3000C678	"Resistor,Chip" MCR01MZPJ301 300OHM 5%	J1001	6612B00015B	"Jack,DIN" DC1R019WDH SOCKET 21P S
R826	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	J1	6612BBBHND	"Jack,Fiber Optic" TOTX177 3P TX 2.54MM AN
R827	0RJ1500C678	"Resistor,Chip" MCR01MZPJ151 150OHM 5%	J1101	6612F00099A	"Jack,Phone" PEJ024-01 1P 4P STRAIGH
R829	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	J1203	6612J10031B	"Jack,RCA" PPJ209-01 14.0MM 1RX3C
R837	0RJ4701D677	"Resistor,Chip" MCR03EZPJ472 4.7KOHM 5%	J600	6612J10023A	"Jack,RCA" KCN-BT-0-0053 10.5MM/11
R838	0RJ1000D677	"Resistor,Chip" MCR03EZPJ101 100OHM 5%	J1200	6612M00010A	"Jack,Scart" PSC003-01 21P 21P/1C 3.
R839	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	J1201	6612M00010A	"Jack,Scart" PSC003-01 21P 21P/1C 3.
R840	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	D100	0DL200000CA	"LED,DIP" SAM5670(DL-2LRG) ROUND
R843	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	IC201	SAA30310938	"S/W,Firmware" 3.09 CE65 EUROPE FLASHR
R857	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	IC802	SAA30715309	"S/W,Firmware" V3.00 B8AB EUROPE FLASH
R859	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW100	EBF32593901	"Switch,Tact" TMUE312GAB 1C1P 12VDC 0
R860	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW101	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R877	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW102	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R880	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW103	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R881	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW104	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R882	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW105	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R883	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW106	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R884	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW107	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R885	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW108	140-313B	"Switch,Tact" KPT-1115AM 1C1P 12VDC 0
R886	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	SW700	EBF32593901	"Switch,Tact" TMUE312GAB 1C1P 12VDC 0
R888	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	TU600	EBL32961502	"Tuner,Digital" TDFC-G106P DVB-T/PAL 17
R891	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	CONNECTOR		
R892	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	J1100	6630G70016A	"Connector,DSUB" A03-7071-094 D-SUB 15P
R893	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	J1102	6630G70017A	"Connector,DSUB" A02-0915-101 D-SUB 9P 2
R894	0RJ1000C678	"Resistor,Chip" MCR01MZPJ101 100OHM 5%	P100	6602T20009C	"Connector,Wafer" SMAW200-04P 4P 2.00MM 1
R897	0RJ1500D677	"Resistor,Chip" MCR03EZPJ151 150OHM 5%	P100	6602T20009L	"Connector,Wafer" SMAW200-12P 12P 2.00MM
R898	0RJ1500D677	"Resistor,Chip" MCR03EZPJ151 150OHM 5%	P100	6602T25008B	"Connector,Wafer" SMW250-03P 3P 2.50MM 1R
R900	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	P101	6602T20008N	"Connector,Wafer" SMW200-14P 14P 2.00MM 1
R901	0RJ1002D477	"Resistor,Chip" MCR03EZPF103 10KOHM 1%	P101	6602T20009C	"Connector,Wafer" SMAW200-04P 4P 2.00MM 1
R902	0RJ2002D477	"Resistor,Chip" MCR03EZPF203 20KOHM 1%	P1105	6602T20008L	"Connector,Wafer" SMW200-12P 12P 2.00MM 1
R910	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/	P1300	6602T25008B	"Connector,Wafer" SMW250-03P 3P 2.50MM 1R
R911	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	P1301	6602T25008C	"Connector,Wafer" SMW250-04P 4P 2.50MM 1R
R913	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	P1400	6602T20008N	"Connector,Wafer" SMW200-14P 14P 2.00MM 1
R915	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	P801	6630V93270A	"Connector,Wafer" FI-RE51S-HFK-A 51P 0.50
R916	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	P900	6602T25008M	"Connector,Wafer" SMW250-13P 13P 2.50MM 1
R917	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	P901	6602T25008J	"Connector,Wafer" SMW250-10P 10P 2.50MM 1
R918	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	C2	6630V90142A	"Connector,Wafer" TPH254-R-1419-6A 6P 2.5
R919	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	C1	5240VE0001C	"Harness,Single" RING D4.3 RING D4.3 200
R920	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	C3	6631900010S	"Harness,Single" 12P 2.0MM 1000MM SMH200
R923	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1	C4	6631900012C	"Harness,Single" SMH250 SMH250 200mM 2.5
R924	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	C5	6631900015R	"Harness,Single" SMH250 SMH250 150mM 2.5
R925	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	C6	6631900027C	"Harness,Single" SMH250 SMH250 200mM 2.5
R926	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%	C7	6631900048A	"Harness,Single" SMH200-4P SMH200-4P 200
R928	0RJ0000D677	"Resistor,Chip" MCR03EZPJ000 0OHM 5% 1/			
R930	0RJ1002D677	"Resistor,Chip" MCR03EZPJ103 10KOHM 5%			
R932	0RJ1001D677	"Resistor,Chip" MCR03EZPJ102 1KOHM 5% 1			

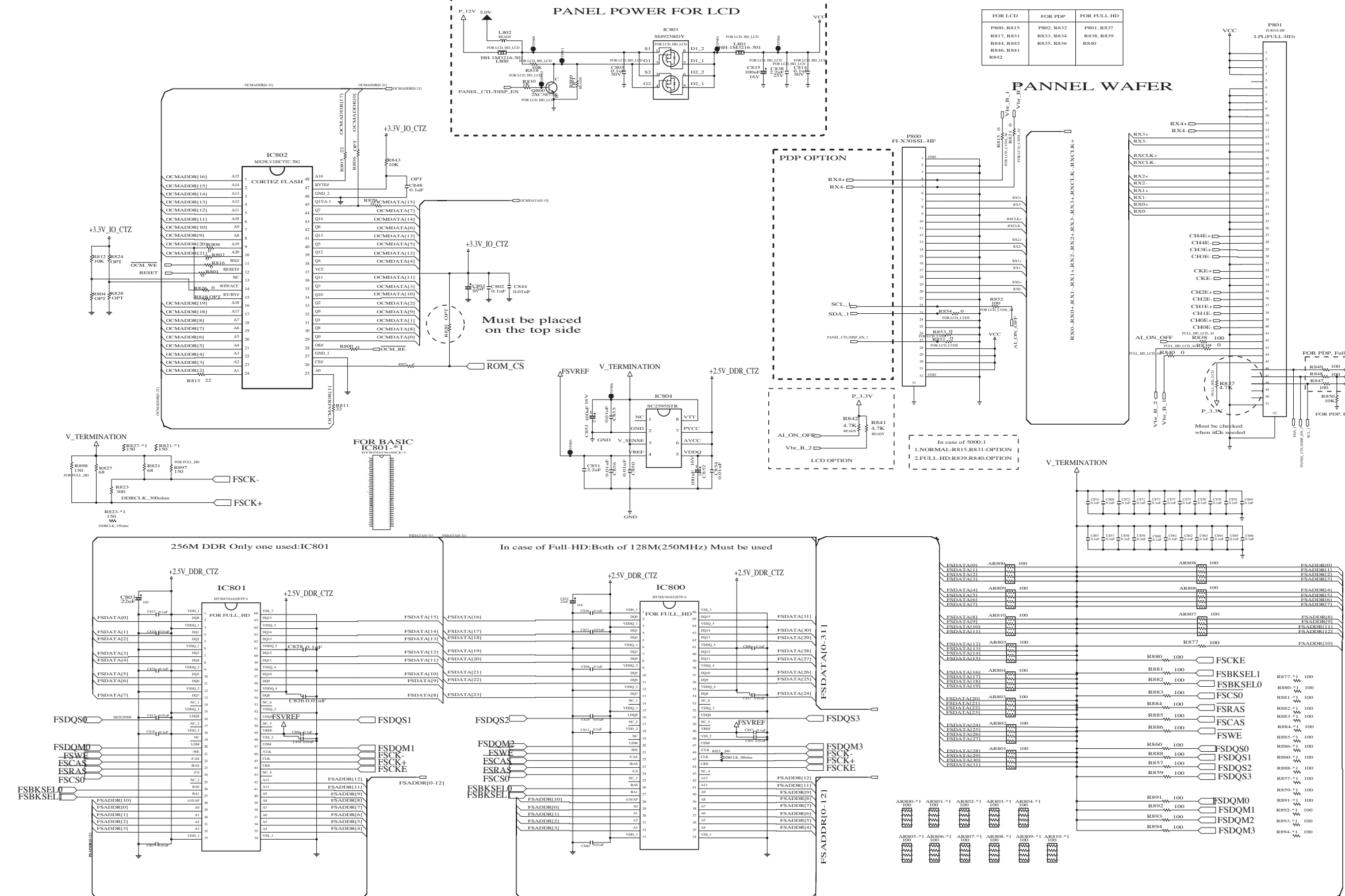
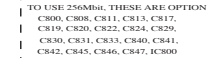
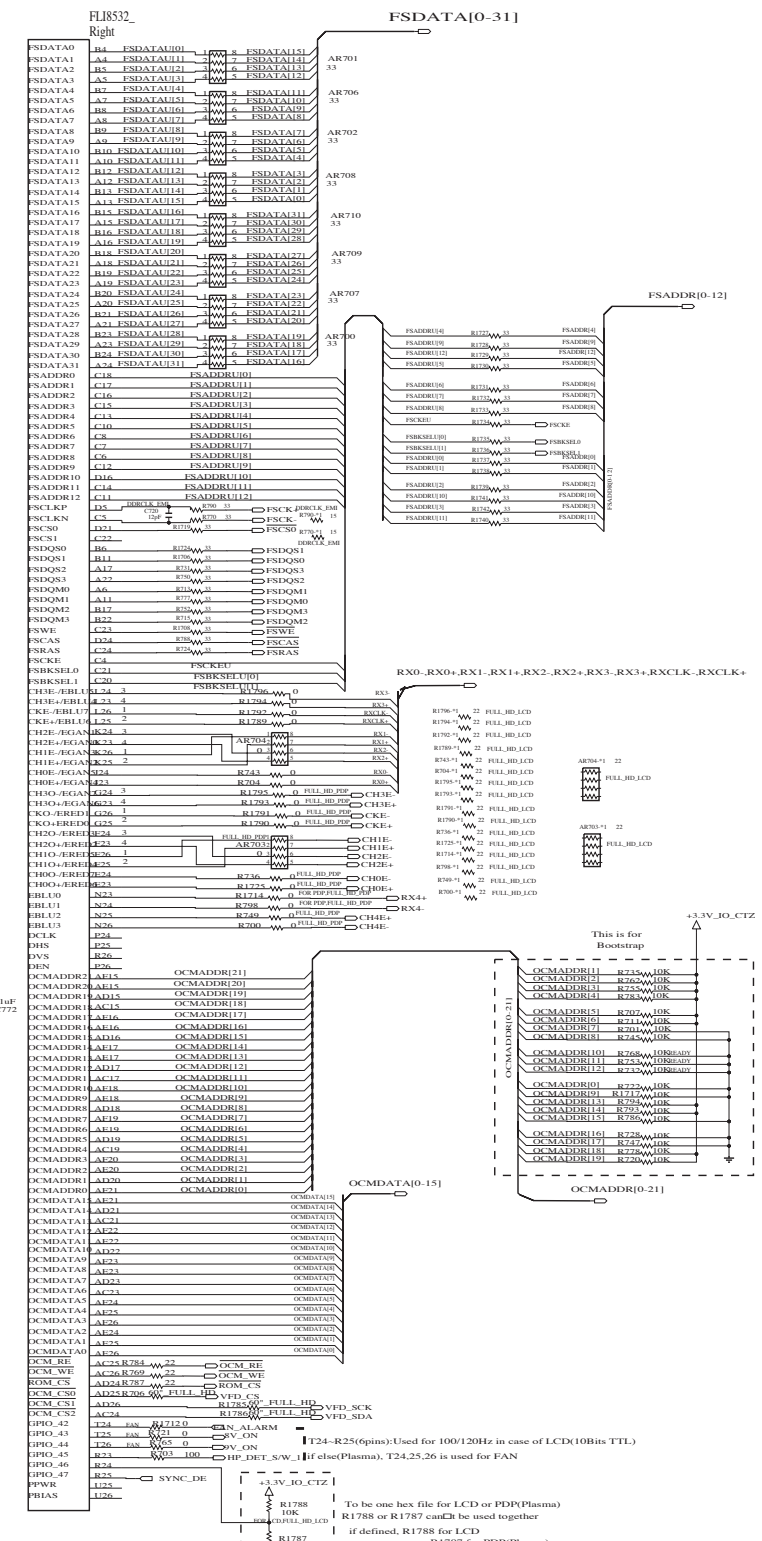
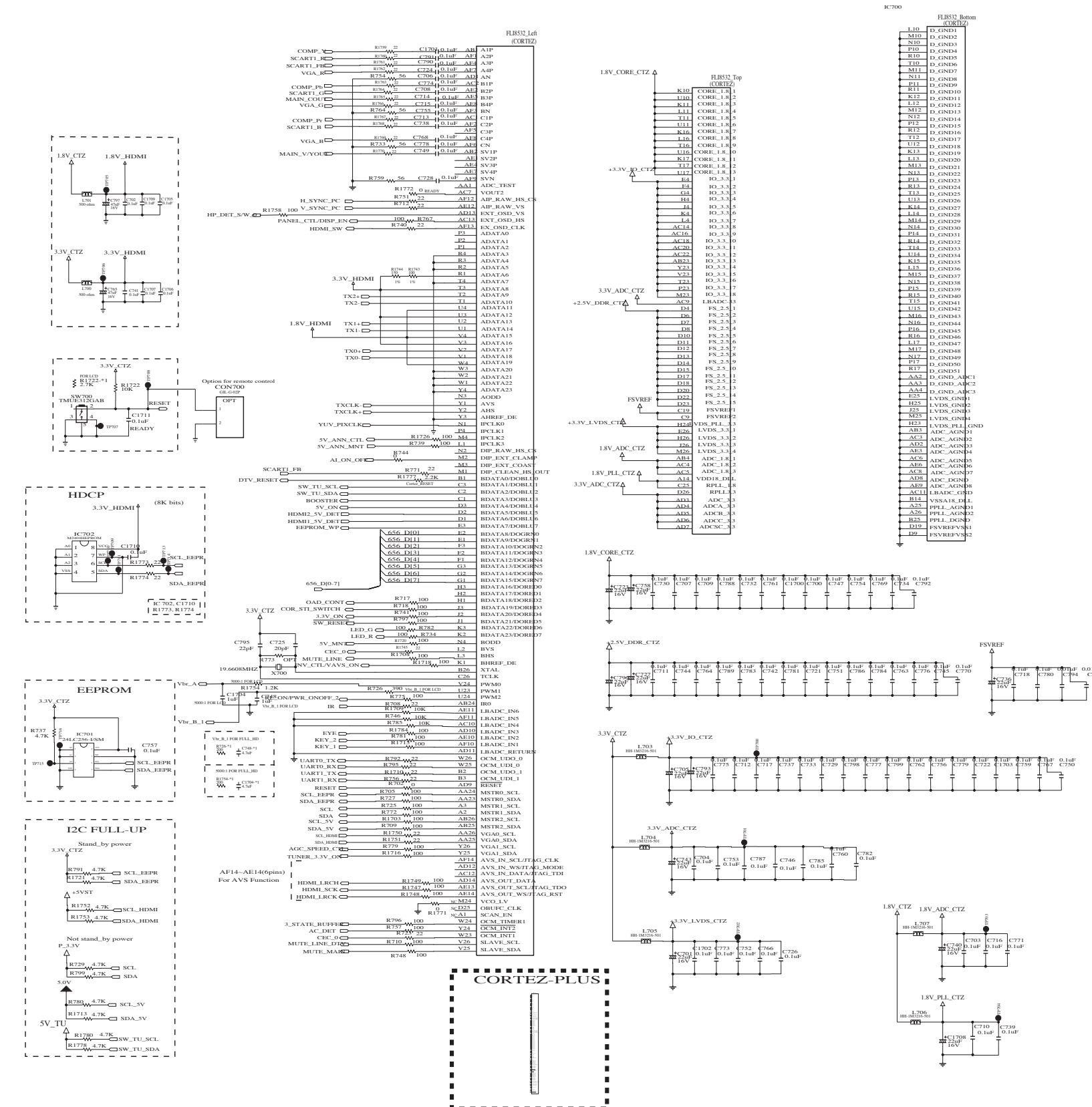
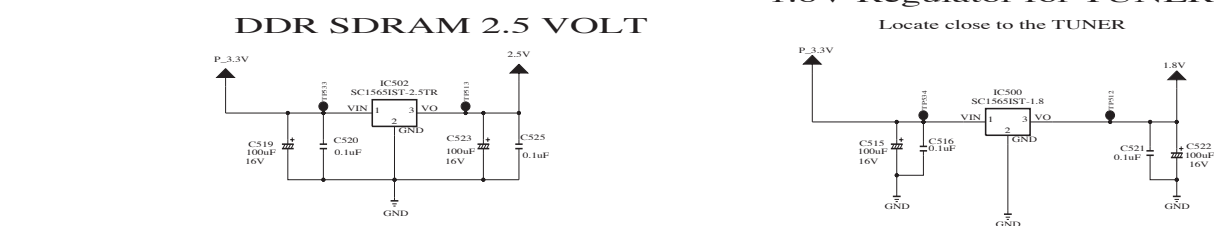
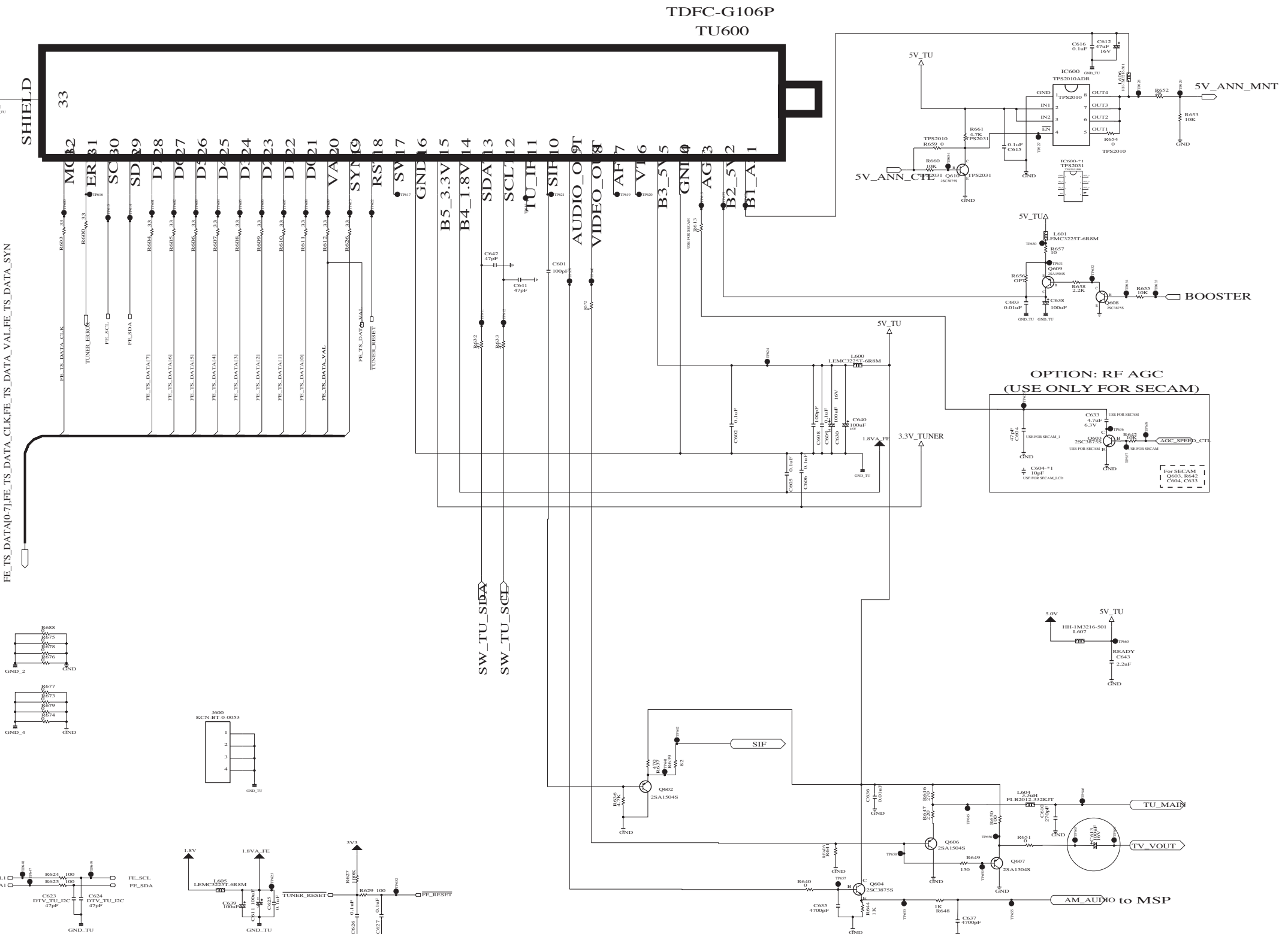
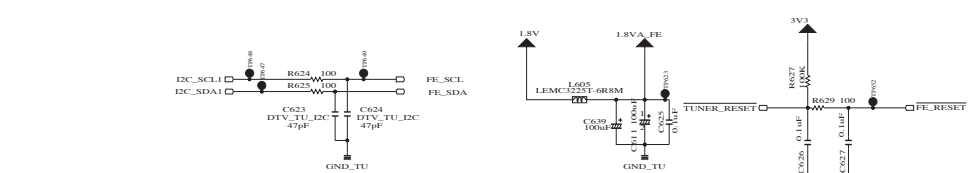
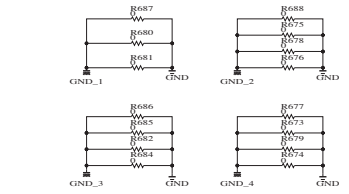
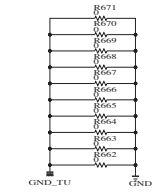
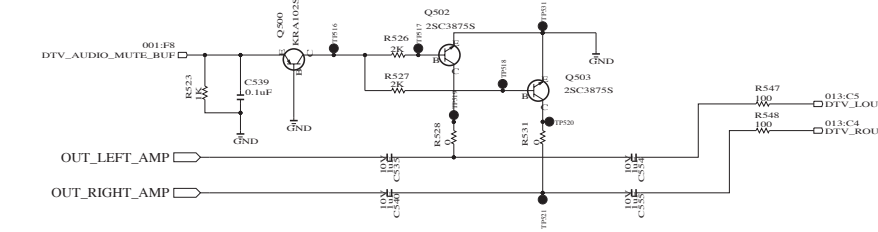
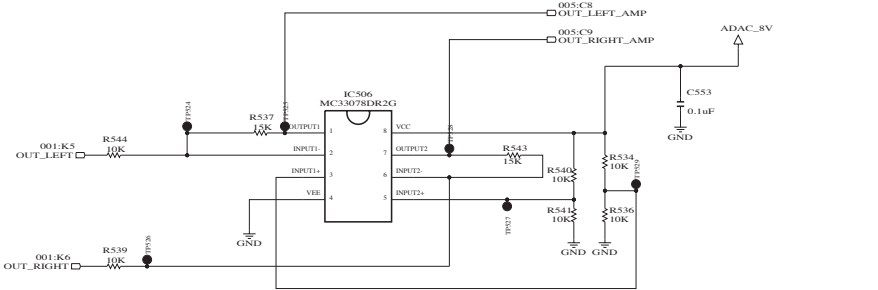
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C8	6631900049E	"Harness,Single" 14P-12/2P INVERTER(2.0M			
C9	6631900099A	"Harness,Single" SMH250 SMP250 300mm 2.5			
C10	6631900133E	"Harness,Single" LVDS FULL HD (JAE) FI-R			
C11	6631T20041B	"Harness,Single" 12P-12P(PHR) PHR-12 PHR			
C12	EAD30301901	"Harness,Single" DMS 4P CONNECTOR ASSY S			
C13	EAD36329201	"Harness,Single" SMH200 SMH200 600MM 2.0			
C14	EAD36608901	"Harness,Single" SMH200-12P SMH200-12PL			

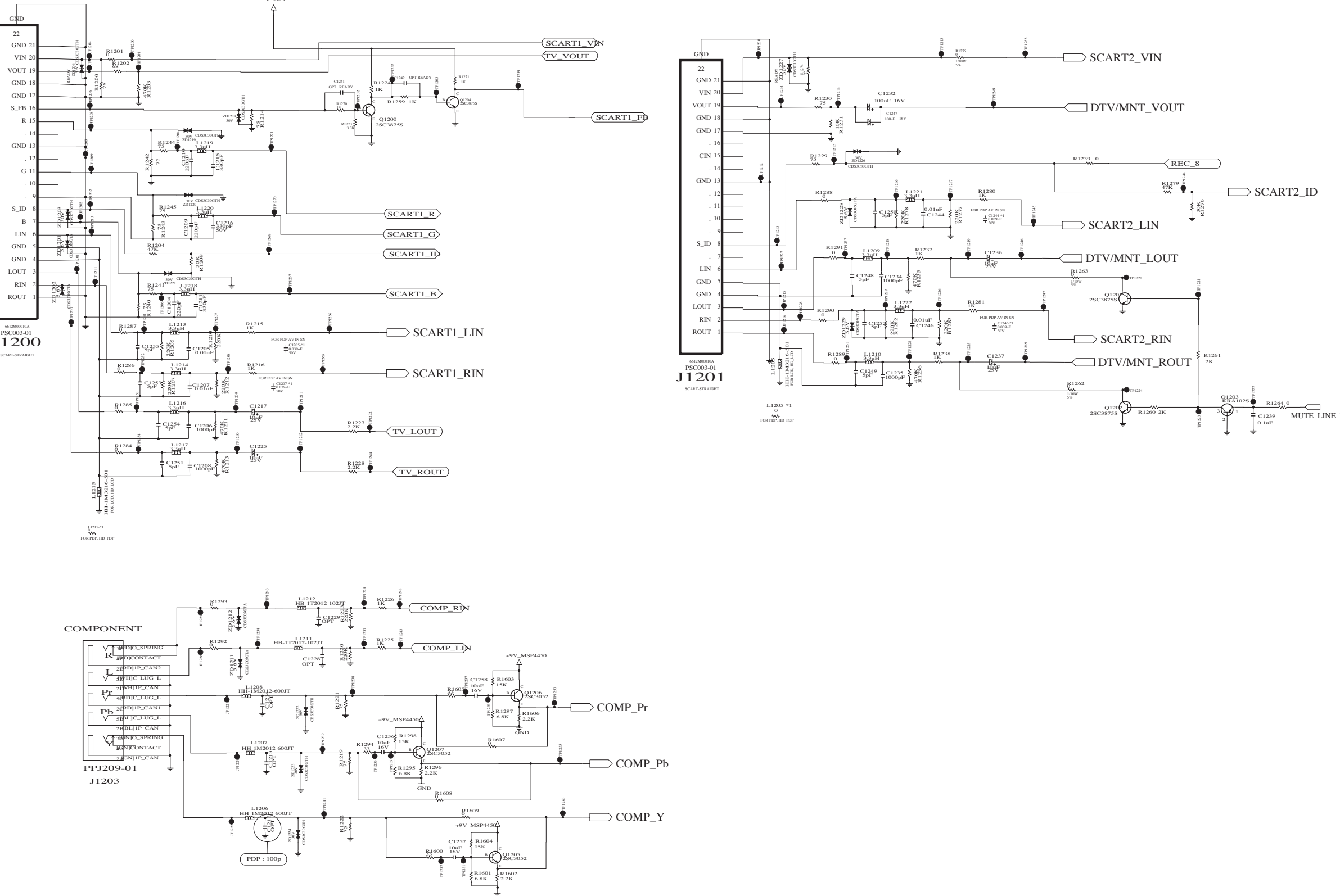
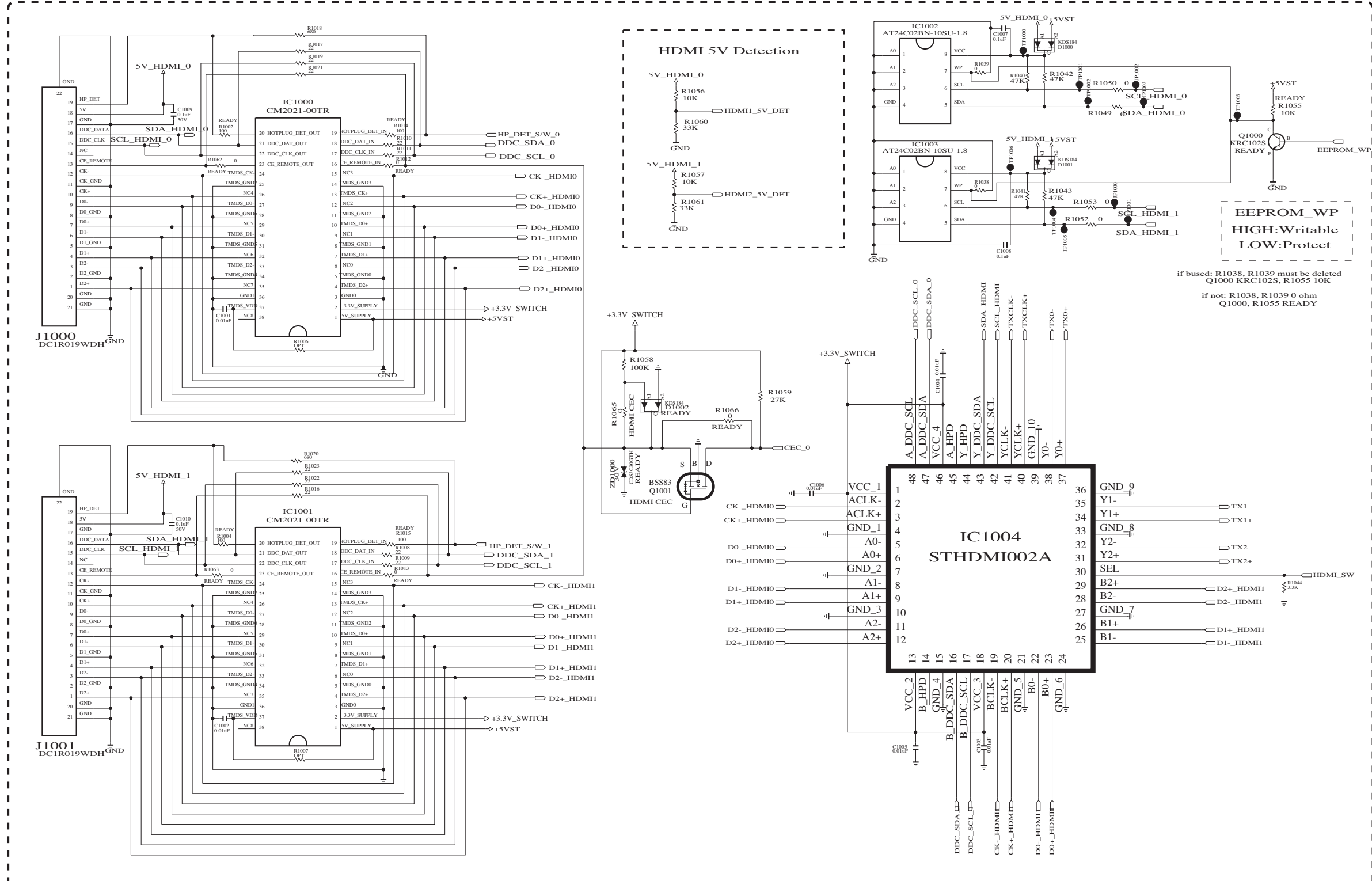
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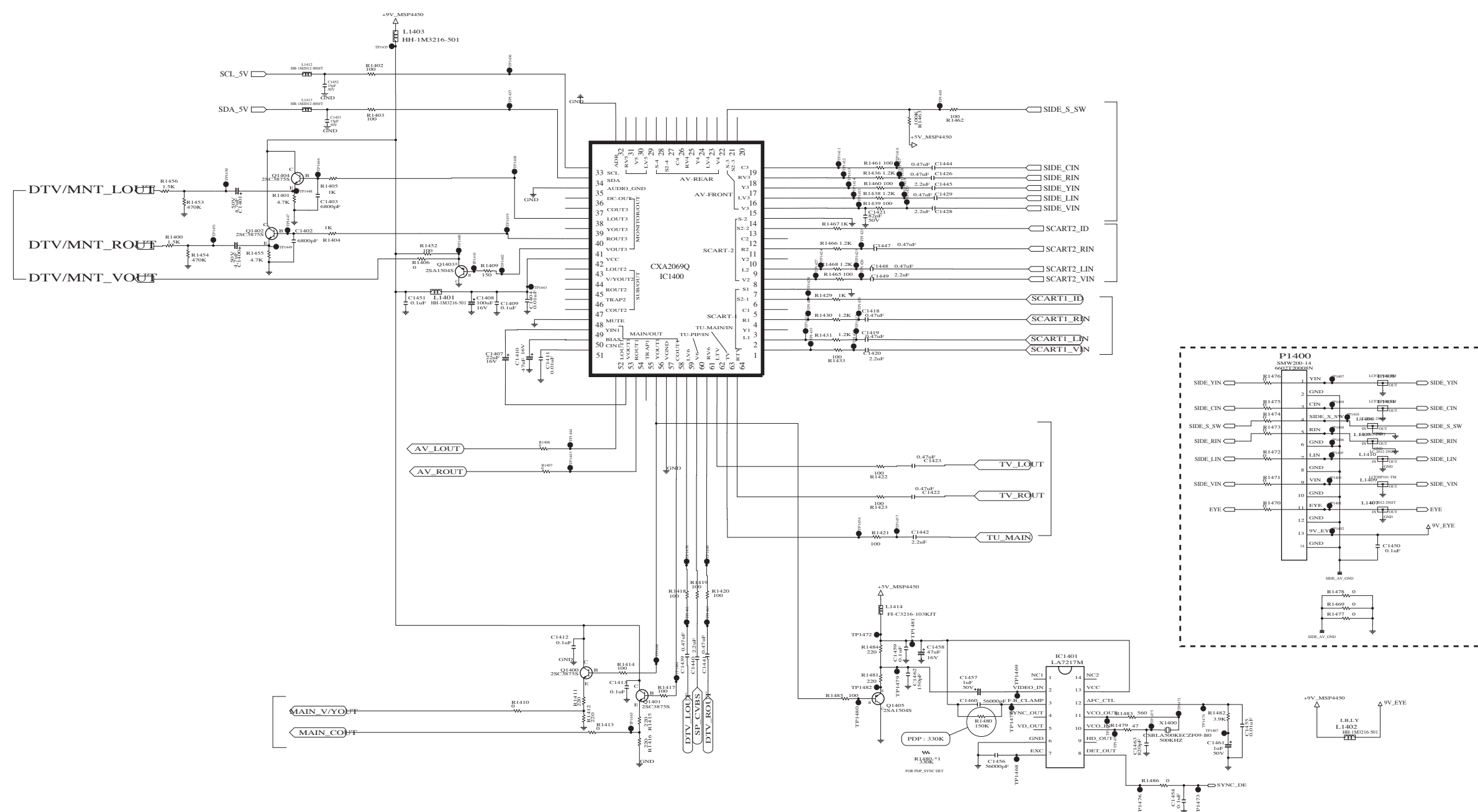
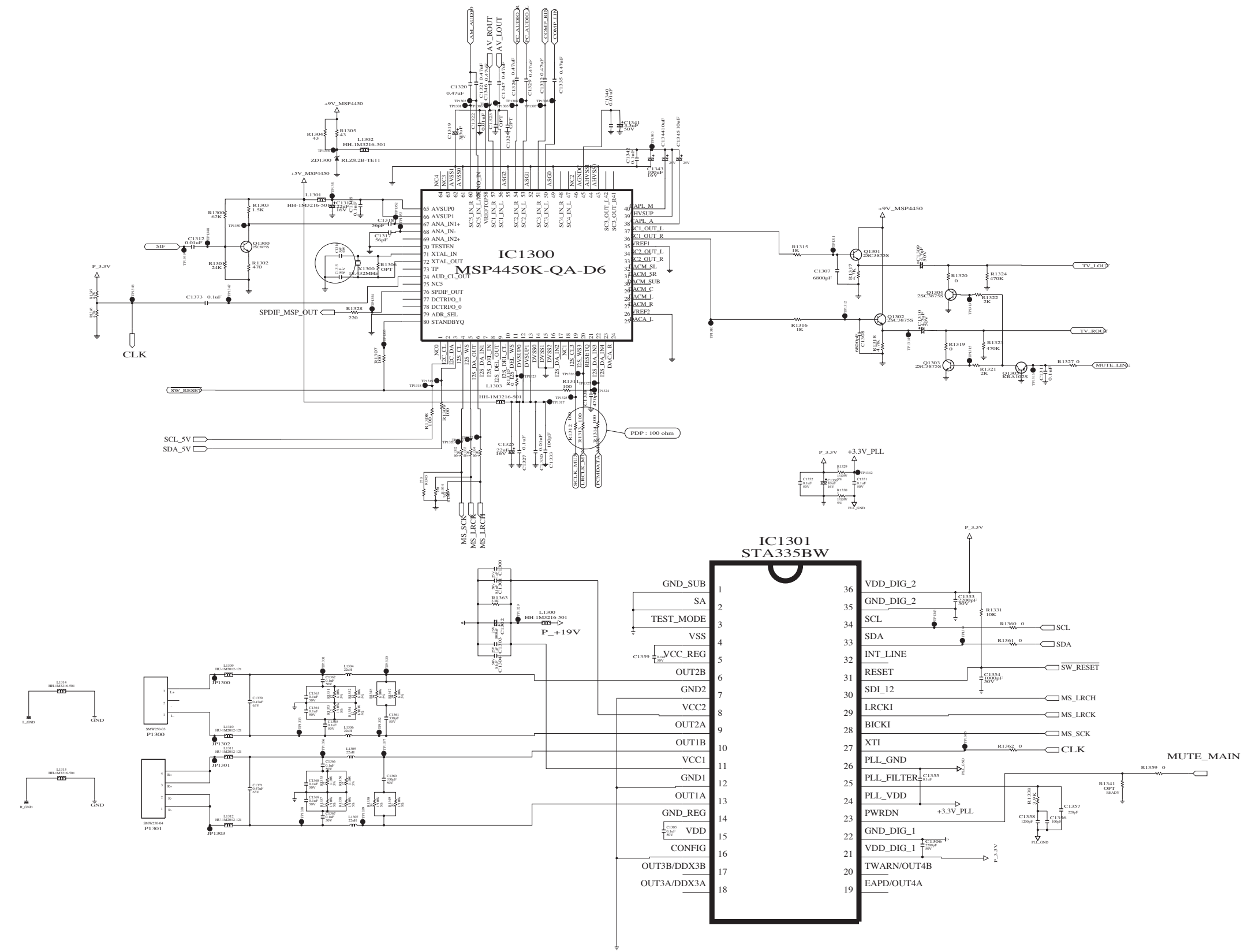
The schematic diagram shows a 10-bit SAR ADC. It consists of a 10-bit SAR logic block, a 10-bit DAC, and a 10-bit comparator. The DAC is implemented using a 10-bit SAR logic block and a 10-bit DAC. The comparator is implemented using a 10-bit SAR logic block and a 10-bit DAC. The circuit is powered by a 1.8V supply and has a 10-bit output. The circuit is implemented in a 0.18μm CMOS technology.

[illegible]

% MUST BE PLACED NEAR IC100









P/NO : MFL36631007

Apr., 2007
Printed in Korea