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Safety

RoHS

SPECIFICATION FOR APPROVAL

• CUSTOMER : LG Electronics inc.

• ITEM : Power Supply Unit.

• P/NO

	MODEL NAME	CUSTOMER	SUPPLIER
LGD FHD	LGP42-10LF	EAY60869402	PLHF-L923A
AUO FHD(HD)	LGP42-10LA	EAY60869403	PLHF-L923B
CMO FHD	LGP42-10LC	EAY60869405	PLHF-L923C

• DATE : 2011. 04. 28

• Revision : REV 2.1

• Remark : MP (PCB REV 1.3)

Producing District : LGITGJ (Jangduk-dong, Gwangju-si, Korea)

LGITYT (Yantai Shandong, China)

(생산지)

(한국 광주 장덕동 / 중국 산둥 연태)

★ Safety Standard Parts [안전규격부품 List]

Power Cord, Power Plug, X/Y-Capacitor, Power Switch, Fuse, SMPS Trans, Stand-By Trans, Photo coupler, Insulation(절연) Resistor, Discharge(방전) Resistor, Fusing Resistor, FBT,CPT, CPT Socket, DY, D-Coil, Line Filter, PCB Material, Front / Back-cover Material Relay(1-2차간), Varistor, Adapter

★ EMC Standard Parts [전자규격 부품 List]

Power Plug, Line Filter, X-Capacitor, Y-Capacitor, SMPS Trans, Tuner, Saw-Filter, Shield Case, Oscillator, Pattern Change

★ Green [유해물질 확인사항]

This item must meet the standards of LG Electronics for six major substances as designated by RoHS for control.
(Cd: 10ppm under, Pb/Hg/Cr+6/PBB/PBDE: 100 ppm under)



LG Innotek

LG Innotek Co., Ltd
LG Twin Tower 33/34F, Yeouido-dong,
Yeongdeungpo-gu, Seoul, Korea
Tel. : +82-2-3777-1114
Fax. : +82-2-3777-0082



DOCUMENT NO : PLHF-L923A/B/C

Documentation For Approval

Description	Model Name	LGE P/No.
LGD FHD	LGP42-10LF	EAY60869402
AUO FHD(HD)	LGP42-10LA	EAY60869403
CMO FHD	LGP42-10LC	EAY60869405

Written	Checked		Approved
신광철	최광탁		이영수

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Revision History

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0.2	Apply to PQ (PCB REV 0.7) PCB P/No. : EAX61124201/9	09. 10. 30		
0.3	Apply to PQ (PCB Rev. 0.8) PCB P/No. : EAX61124201/10 # Improvement EMI 1. LB701, LB702 : Bead → Jumper 2. LB703, LB704 : Jumper → Bead 3. C720,721 : 100p → N.C 4. C706, C707 : Add 100p # Improvement Q502 TR Margin 5. R506 : 100K → N.C 6. R502 : N.C → 100K # AC Brownout change 7. R519 : 2.2M → 1M 8. R513,R514,R515,R516,R517,R518, R509 : J(5%) → F(1%) Grade Change 9. C509 : 22uF → 10uF 10. C502: 0.68uF → 0.1uF # Location change 11. VA100, CX101	09. 11. 11		
0.4	Apply to PQ (PCB Rev. 0.9) PCB P/No. : EAX61124201/11 1. SK101 add GND Area # Improvement 3.5V & 12V Overshooting 2. R218 : 1K J → 4.7K J 3. C221 : 50V 1uF Add	09. 11. 23		
1.0	Apply to MP-Limit (PCB Rev. 1.0) PCB P/No. : EAX61124201/13 # Improvement EMI 1. C714, 715 : 0.001uF → NC # Delete Jump wire 2. Delete J7, J39	09. 12. 07		

Rev No.	Contents	Date of approval	Checked	Remark
1.1	Apply to MP-Limit (PCB Rev. 1.1) PCB P/No. : EAX61124201/14 # Improvement Inverter Margin 42AUO(EAY60869403) 1. 1. R301 : 27K/F => 27K/J 2. R302 : 75K/F => 51K/J 3. R328 : 36/F => N.C 4. VR301 : N.C => 10K 5. Operating Frequency : 62kHz ±2kHz => 62kHz ±1kHz	10. 1. 7		
1.2	Apply to MP (PCB Rev. 1.2) PCB P/No. : EAX61124201/15 1. Location for Barcode Label changed. (on the HS3)	10. 1. 25		
1.3	1. Addition for CMO Model	10. 3. 15		923C Only MP limit Qty:30K
1.4	Apply to MP (PCB Rev. 1.2) PCB P/No. : EAX61124201/15 1. Add to Material Supply Vendor 1) Flux: Alpha Metal → Alpha Metals, 동화다무라, 청솔 2) Silicon Bond: OKONG (For Auto Dispensor) 3) PCB: Huiho, Hsiang Kuo, Samhan, Daeduck, Chin Poon →Huiho, Hsiang Kuo, Samhan, Daeduck, Chin Poon, WeiJum 2. Change to Eyelet Shape (Prevent to fuse lead insert missing) - Shape: Eyelet → Gripper (Φ1.6*2.6L) - Location No: EL19, EL20, EL54, EL56 3. Change to Line Filter Bobbin Color (Prevent to mix other parts) - Color: White → Black - Location No.: LF102, LF103 - Part No.: LLF-104 - Vendor: Clover Hitek, SooJung	10. 7. 8		
1.5	Apply to MP (PCB Rev. 1.2) PCB P/No. : EAX61124201/15 1.Add to Material Supply Vendor (To Improvement component delivery) 1)Location Number : D501,D502,D504 (UF4007/UF1007/HER108G) 2)Maker : TSC,Fairchild,RECTRON→ TSC,Fairchild,RECTRON,Diodes	10.07.23		

Rev No.	Contents	Date of approval	Checked	Remark			
1.6	Apply to MP (PCB Rev. 1.2) PCB P/No. : EAX61124201/15 1.Add to Material (To Improvement component delivery) 1)Location Number : D202 2) <table><tr><td>MBRF20U65CT, KEC FMW-2206, SANKEN MBRF2060CT, SENSITRON</td><td>→</td><td>MBRF20U65CT, KEC FMW-2206, SANKEN MBRF2060CT, SENSITRON MBRF2060CTL, SENSITRON</td></tr></table> 2. Add to Material Supply Vendor 1) CX101, CX102 : Pilkor → Pilkor, OKAYA, Europtronic	MBRF20U65CT, KEC FMW-2206, SANKEN MBRF2060CT, SENSITRON	→	MBRF20U65CT, KEC FMW-2206, SANKEN MBRF2060CT, SENSITRON MBRF2060CTL, SENSITRON	10.08.06		CX101, CX102 → 923A Only
MBRF20U65CT, KEC FMW-2206, SANKEN MBRF2060CT, SENSITRON	→	MBRF20U65CT, KEC FMW-2206, SANKEN MBRF2060CT, SENSITRON MBRF2060CTL, SENSITRON					
1.7	Apply to MP (PCB Rev. 1.2) PCB P/No. : EAX61124201/15 1.Add to Material product line (To Improvement component delivery) 1)Location Number : IC501 (STR-W6053N) 2)Plant site <table><tr><td>石川 Sanken(株)</td><td>→</td><td>石川 Sanken(株) 鹿島 Sanken(株)</td></tr></table>	石川 Sanken(株)	→	石川 Sanken(株) 鹿島 Sanken(株)	10.08.14		
石川 Sanken(株)	→	石川 Sanken(株) 鹿島 Sanken(株)					
1.8	Apply to MP (PCB Rev. 1.3) PCB P/No. : EAX61124201/16 1. PCB change for PL prevention.	10.09.17					
1.9	Apply to MP (PCB Rev. 1.3) PCB P/No. : EAX61124201/16 1. Change to Line Filter Bobbin Color (Prevent to mix other parts) - Color: White → Black - Location No.: LF102, LF103 - Part No.: LLF-104 - Vendor: Clover , SooJung , Feelux	11.03. 24					

Rev No.	Contents	Date of approval	Checked	Remark
2.0	Apply to MP (PCB Rev. 1.3) PCB P/No. : EAX61124201/16 1. Add to Material Supply Vendor 1) Silicon Bond : DONGYANG 2) Jumper Wire : ILKWANG	11.03.31	G. T. Choi	
2.1	Apply to MP (PCB Rev. 1.3) PCB P/No. : EAX61124201/16 # Add screw type. Before : SCREW PH S+P/W MACHINE M3X10 / 12 After : - SCREW PH S+P/W MACHINE M3 X10 / 12 - BHM Screw, M3.0 * 8.0 / 9.0L, with Clamfix,Cr3+WH Plating * Apply for all screw.	11.04.28	G. T. Choi	
	Before			
	After [ADD]			
				
				

CTQ Management

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Differentia

Model Details	LGP42-10LF (EAY60869402)	LGP42-10LA (EAY60869403)	LGP42-10LC (EAY60869405)
T703, T704	LIF42-100L	LIF42-101A	LIF42-102C
R301	RES FLAT 39K F 1/8 (2012)	RES FLAT 27K J 1/8 (2012)	RES FLAT 27K J 1/8 (2012)
R302	RES FLAT 62K F 1/8 (2012)	RES FLAT 51K J 1/8 (2012)	RES FLAT 51K J 1/8 (2012)
R306	RES FLAT 150K J 1/8 (2012)	RES FLAT 100K J 1/8 (2012)	RES FLAT 200K J 1/8 (2012)
R308	RES FLAT 10K F 1/8 (2012)	RES FLAT 6.8K F 1/8 (2012)	RES FLAT 7.5K F 1/8 (2012)
R322	RES FLAT 6.2K F 1/8 (2012)	RES FLAT 5.1K F 1/8 (2012)	RES FLAT 6.2K F 1/8 (2012)
R323	RES FLAT 6.8K F 1/8 (2012)	RES FLAT 6.8K F 1/8 (2012)	RES FLAT 10K F 1/8 (2012)
R325	RES FLAT 9.1K J 1/8 (2012)	RES FLAT 5.1K J 1/8 (2012)	RES FLAT 20K J 1/8 (2012)
R327	RES FLAT 10K J 1/8 (2012)	RES FLAT 4.7K J 1/8 (2012)	RES FLAT 12K J 1/8 (2012)
C401	22pF J 6KV (10mm)	5pF J 6KV (10mm)	10pF J 6KV (10mm)
C402	54pF J 6KV (10mm)	39pF J 6KV (10mm)	54pF J 6KV (10mm)
C403	CAP FLAT 47nF K 50V X7R (2012)	CAP FLAT 47nF K 50V X7R (2012)	CAP FLAT 56nF K 50V X7R (2012)
C404	CAP FLAT 15nF K 50V X7R (2012)	CAP FLAT 5.6nF K 50V X7R (2012)	CAP FLAT 27nF K 50V X7R (2012)
C405	CAP FLAT 15nF K 50V X7R (2012)	CAP FLAT 5.6nF K 50V X7R (2012)	CAP FLAT 6.8nF K 50V X7R (2012)
C406	CAP FLAT 15nF K 50V X7R (2012)	CAP FLAT 5.6nF K 50V X7R (2012)	CAP FLAT 6.8nF K 50V X7R (2012)
EL70	EYELET DIA 1.6*3.0	N.C	N.C
EL71	N.C	EYELET DIA 1.6*3.0	N.C
EL72	N.C	N.C	EYELET DIA 1.6*3.0

Marking for Model

LGD FHD :
EAY60869402

EL65		LGP32-10LF
EL66		LGP32-10LH
EL67		LGP32-10LS
EL68		LGP37-10LF
EL69		LGP37-10LA
EL70		LGP42-10LF
EL71		LGP42-10LA
EL72		LGP42-10LC
EL73		LGP42-10LS

LGD FHD Only
EL70 Eyelet

AUO FHD :
EAY60869403

EL65		LGP32-10LF
EL66		LGP32-10LH
EL67		LGP32-10LS
EL68		LGP37-10LF
EL69		LGP37-10LA
EL70		LGP42-10LF
EL71		LGP42-10LA
EL72		LGP42-10LC
EL73		LGP42-10LS

AUO FHD Only
EL71 Eyelet

CMO FHD :
EAY60869405

EL65		LGP32-10LF
EL66		LGP32-10LH
EL67		LGP32-10LS
EL68		LGP37-10LF
EL69		LGP37-10LA
EL70		LGP42-10LF
EL71		LGP42-10LA
EL72		LGP42-10LC
EL73		LGP42-10LS

CMO FHD Only
EL72 Eyelet

Specification

1. INTRODUCTION

1.1 Scope

This approval is the description related to every electrical and structural specifications and reliability For Power Supply Unit (LGD FHD : LGP42-10LF, AUO FHD(HD) : LGP42-10LA, CMO FHD : LGP42-10LC) used on 42 inch LGE LCD TV.

1.2 Customers product related items

Product : Power Supply Unit

Part code : **LGD FHD : EAY60869402, AUO FHD(HD) : EAY60869403,**
CMO FHD : EAY60869405

1.3 Product name

Product name : **LGD FHD : PLHF-L923A, AUO FHD(HD) : PLHF-L923B,**
CMO FHD : PLHF-L923C

Revision code : 2.0

2. SPECIFICATION

2.1 Input Requirements

Nominal Input Voltage	AC 100V to AC 240V
Input Voltage Variation	AC 90V to AC 264V
Input Current	Under 3.5Arms . (at 100Vac & Nominal Load) Under 1.5Arms . (at 240Vac & Nominal Load)
Nominal Frequency	50 / 60 Hz
Frequency Variation Range	47 Hz to 63 Hz
Phase	Single
Leakage Current	0.7mA_peak. (100Vac ~ 240Vac)
Surge Immunity	± 4kV / 1000ns / 0° to 360°
Hold-up Time	More than 20ms at 100Vac and maximum output load
Lightning Surge	2kA Normal, Common Mode
Inrush Current	80A zero-pk max at cold start and any specified line, load, and temperature conditions.

2.1.1 Power Factor

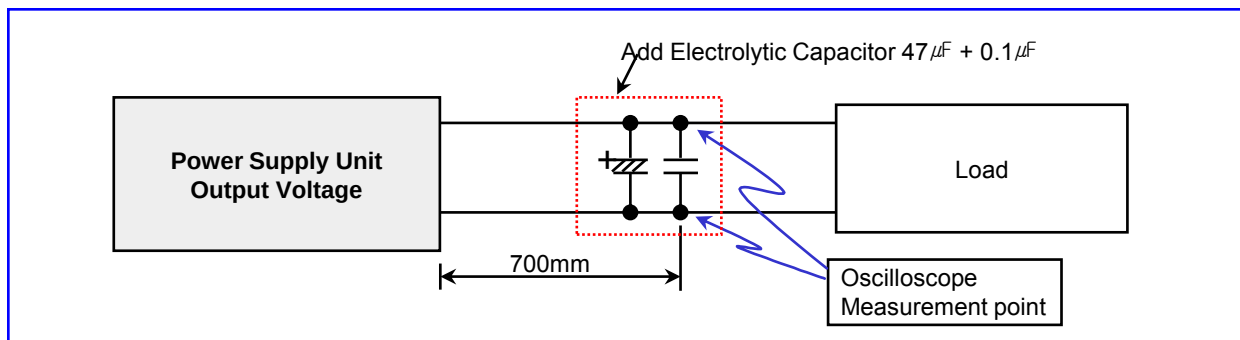
Over than 0.9 at 90 – 264Vac & max load condition

2.2 Power Output Characteristics

Output	Voltage Variable range [V]	Rated Current (Min, Max) [Amean]	Voltage Regulation [V]	Ripple Voltage [mVp_p]
3.5V (ST-BY)	3.23V ~ 3.57V	0.3W Under(15mA)	–	–
		1.9A (0.8~1.9) (ON condition)	–	250 mVp_p
12V	11.4V ~ 12.6V	2.8A (0.35~2.8)	± 5%	350 mVp_p
20V	17V ~ 25.2V	1.1A (0.07~1.1)	–15% ~ +26%	500 mVp_p

- * On Condition : In a moment of Power_ON Signal activated, the current of 3.5V output should be limited within 40mA(Max) at LCD TV condition for stability.
Do not turn "Power_ON" Signal on at the load condition of 3.5V output, more than 40mA.
- * Total regulation for each output circuit includes the results of input voltage variation, load variation, warm-up drift and temperature change.
- * The following instruments shall be used for measuring ripple noise.
 1. Probe having impedance ratio of 1:1.
 2. Oscilloscope having frequency characteristic of 100MHz or more.

Test Point : power output ㄱ pin



※ Ripple and noise are measured at the end of output cable which are added a 0.1uF ceramic capacitor and 47uF electrolytic capacitor. (connected parallel)

2.2.1 Stand By Power Consumption

Output Voltage	3.5V (STBY)	12V	20V
Load [A]	0.015	Don't Care (Power-Off)	
Wattage [W]	Less than 0.3 Under (230Vac / 50Hz)		

2.3 Inverter Output Characteristics

“When doing inverter test, GND should be reinforced”

2.3.1 LGD FHD LGP42-10LF (EAY60869402)

Item	Symbol	Condition	Min	Typ	Max	Unit	Remarks
PFC Voltage	VPFC	-	380	390	400	Vdc	1차측(HOT)
Control Voltage	VC	-	11.4	12	12.6		2차측(COLD)
Input Current	lin (Max)	Vin=390V, A-DIM=1.65V B-DIM=3.3V	-	0.4	-	Arms	-
Input Power	Pin	Vin=390V, A-DIM=1.65V, B-DIM=3.3V	-	154	-	W	-
Back light ON/OFF Control	VON/OFF	Lamp ON=High	3.0	3.3	5.0	Vdc	-
		Lamp OFF=Low	0.0	-	0.8		
Analog Dimming Control	A-DIM	-	-	1.65	3.3	Vdc	1.65V : Normal 3.3V : 매장mode
Lamp Voltage	Vout (Normal)	A-DIM=1.65V B-DIM=3.3V	840	1040	1240	Vrms	One side 2시간 Aging후
Lamp Current	Iout (Normal)	A-DIM=1.65V B-DIM=3.3V	123	136	149	mArms	EEFL:16ea
PWM Duty Ratio	Iout (Min)	B-DIM=3.3V (Input Duty : 20%)	5	10	15	%	Output Current 기준 (120Hz)
	Iout (Max)	B-DIM=3.3V (Input Duty : 100%)	100	-	-		
Operating Frequency	Fo	A-DIM=1.65V B-DIM=3.3V	47	48.5	50	KHz	-
Open Lamp Voltage	Vopen	No load, Vin=390V, A-DIM=1.65V B-DIM=3.3V	1125	-	-	Vrms	One side
Striking time	Ts		1.5	-	3.0	sec	-

“When doing inverter test, GND should be reinforced”

2.3.2 AUO FHD(HD) LGP42-10LA (EAY60869403)

Item	Symbol	Condition	Min	Typ	Max	Unit	Remarks
PFC Voltage	VPFC	-	380	390	400	Vdc	1차측(HOT)
Control Voltage	VC	-	11.4	12	12.6		2차측(COLD)
Input Current	lin (Max)	Vin=390V, A-DIM=1.65V B-DIM=3.3V	-	0.8	-	Arms	-
Input Power	Pin	Vin=390V, A-DIM=1.65V, B-DIM=3.3V	-	108	-	W	-
Back light ON/OFF Control	VON/OFF	Lamp ON=High	3.0	3.3	5.0	Vdc	-
		Lamp OFF=Low	0.0	-	0.8		
Analog Dimming Control	A-DIM	-	-	1.65	3.3	Vdc	1.65V : Normal 3.3V : 매장mode
Lamp Voltage	Vout (Normal)	A-DIM=1.65V B-DIM=3.3V	750	950	1150	Vrms	One side 2시간 Aging후
Lamp Current	Iout (Normal)	A-DIM=1.65V B-DIM=3.3V	125	135	145	mArms	EEFL:14ea
PWM Duty Ratio	Iout (Min)	B-DIM=3.3V (Input Duty : 20%)	5	10	15	%	Output Current 기준 (120Hz)
	Iout (Max)	B-DIM=3.3V (Input Duty : 100%)	100	-	-		
Operating Frequency	Fo	A-DIM=1.65V B-DIM=3.3V	61	62	63	KHz	-
Open Lamp Voltage	Vopen	No load, Vin=390V, A-DIM=1.65V B-DIM=3.3V	1480	-	-	Vrms	One side
Striking time	Ts		1.5	-	3.0	sec	-

“When doing inverter test, GND should be reinforced”

2.3.3 CMO FHD LGP42-10LC (EAY60869405)

Item	Symbol	Condition	Min	Typ	Max	Unit	Remarks
PFC Voltage	VPFC	-	380	390	400	Vdc	1차측(HOT)
Control Voltage	VC	-	10.8	12	13.2		2차측(COLD)
Input Current	lin (Max)	Vin=390V, A-DIM=1.65V B-DIM=3.3V	-	0.52	-	Arms	-
Input Power	Pin	Vin=390V, A-DIM=1.65V, B-DIM=3.3V	-	130	150	W	-
Back light ON/OFF Control	VON/OFF	Lamp ON=High	3.0	3.3	5.0	Vdc	-
		Lamp OFF=Low	0.0	-	0.8		
Analog Dimming Control	A-DIM	-	-	1.65	3.3	Vdc	1.65V : Normal 3.3V : 매장mode
Lamp Voltage	Vout (Normal)	A-DIM=1.65V B-DIM=3.3V	890	1060	1290	Vrms	One side 2시간 Aging후
Lamp Current	Iout (Normal)	A-DIM=1.65V B-DIM=3.3V	115	125	135	mArms	EEFL:14ea
PWM Duty Ratio	Iout (Min)	B-DIM=3.3V (Input Duty : 20%)	5	10	15	%	Output Current 기준 (120Hz)
	Iout (Max)	B-DIM=3.3V (Input Duty : 100%)	100	-	-		
Operating Frequency	Fo	A-DIM=1.65V B-DIM=3.3V	61	62	63	KHz	-
Open Lamp Voltage	Vopen	No load, Vin=390V, A-DIM=1.65V B-DIM=3.3V	1600	-	-	Vrms	One side
Striking time	Ts		1.5	-	3.0	sec	-

2.4 Environment Requirement

Operating Temperature Range	-10℃ to 40℃ (60℃:No Hardware Failure, TV SET Condition)
Operating Humidity Range	30 to 85 %
Storage Temperature Range	-25 to 85 deg.
Storage humidity Range	5 to 90 %
MTBF (Mean Time Between Failure)	50,000 hour
Cooling Condition	Natural Air
Shock	98 m/s ² Shock test consists of pivoting the power supply, from one edge of it's bottom side, on a flat surface (such as wood having thickness of 10mm or more) and allowing the opposite edge to fall from a height of 50mm to this surface. The test is performed three times on each edge of the bottom side of the power supply

2.5 Dielectric Strength Voltage and Insulation Resistance



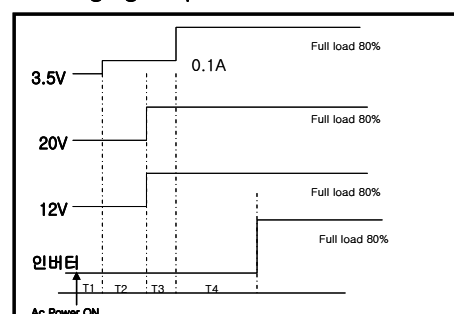
Dielectric Strength Voltage	AC-DC 1.5K VAC 3 SEC 10 mA. Between Primary and All Secondary Circuits.
Insulation Resistance	Insulation resistance shall be more than 8M ohm (at DC 500V) Between Primary Live, Neutral line and Secondary.

- * Above tests are performed at room temperature in non-condensing atmospheric conditions
- * Frame grounds are connected to secondary circuits.

2.6 Burn-in

More than 1 hours at 45℃(±5℃), Normal input voltage.
AC on/off must be test 1 time after burn-in.
80% Load of specification.

10L Aging Sequence



Load 부가 순서 : T1→T2→T3→T4
T2 : Min 10ms
T3 : Min 5ms

2.7 Interface

Appellation	Explanation	Signal Direction	Action
POWER ON	Vcc Circuit ON/OFF	Input	Hi : Vcc ON Low : Vcc OFF

2.8 Product Safety



Safety Standards to be applied	Design to meet the requirements as follows UL60950, IEC60950, IEC60065 and 60950
EMI/RFI Standards to be applied	Design to meet the requirements as follows FCC and EN55020, EN55013 Class B with 4dB minimum margin.

2.9 Construction

Weight	Less than 1.0kg
Unit Size	196(W) X 246(D) X 21(H, Max, Tolerance ± 2 mm)

2.10 Function of protection

Protection	Output Circuit	Trip point	Notes
Over Current	STBY 3.5V	12A ~	Latch
	12V	6A ~	Latch
	20V	3A ~	Latch
Short Circuit	STBY 3.5V	–	Latch
	12V	–	Latch
	20V	–	Latch

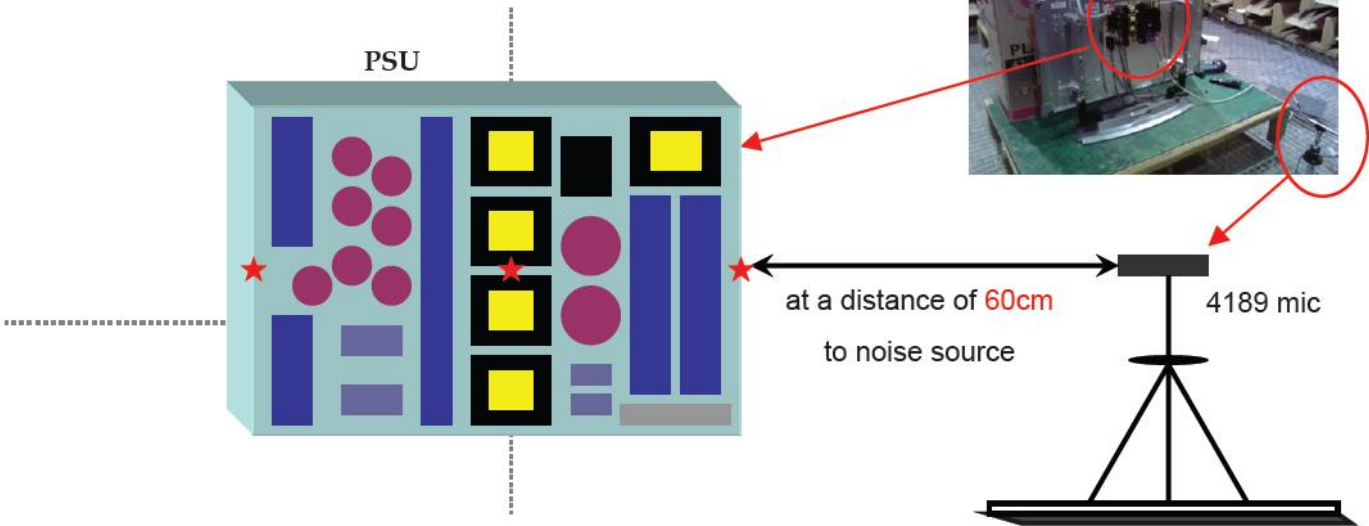
- * This Power Supply has above-mentioned protections.
- * Short circuit protection between different output terminals is not considered.
- * Trip point for over voltage indicates the operating point when the output voltage slowly increases.
- * The conditions of Over Current measurement
Multi output(3.5V,12V,20V) is nominal load state except an over current measurement.

2.11 Sound Noise Characteristics

PSU Noise Specification
22.5 dB(a) / 20.u Pa 2.0E-5 Pa
(1/1 octave, A-weighting, to 1khz ~ 16khz Total overall

Measure Location : Anechoic Room
Measure Condition : At a distance of 60cm mic
Full white pattern, at AC 110V/220V
The max specification
(measure 3 points, at PSU center and left & right on the side)

PSU NOISE MEASURE POINT



2.12 Connector Specification

2.12.1 Connectors Usage

SK101 (Option 1)	
Type : (DAC – 11PM1) Maker : (Dongil)	
Pin No.	Signal
1	LIVE
2	F.G
3	NEUTRAL

SK102 (Option 2)	
Type : (YW396–03AV) Maker : (YEONHO)	
Pin No.	Signal
1	LIVE
2	NC
3	NEUTRAL

P201			
Type : (FW20020–24SB), Maker : (FOOSUNG/Yeonho)			
Pin No.	Signal	Pin No.	Signal
1	Power-ON	2	20V
3	20V	4	20V
5	GND	6	GND
7	GND	8	GND
9	3.5V	10	3.5V
11	3.5V	12	3.5V
13	GND	14	GND
15	GND	16	GND
17	12V	18	INV ON/OFF
19	12V	20	A-DIM
21	12V	22	P-DIM
23	NC	24	ERROR

2.12.2 Connector Usage

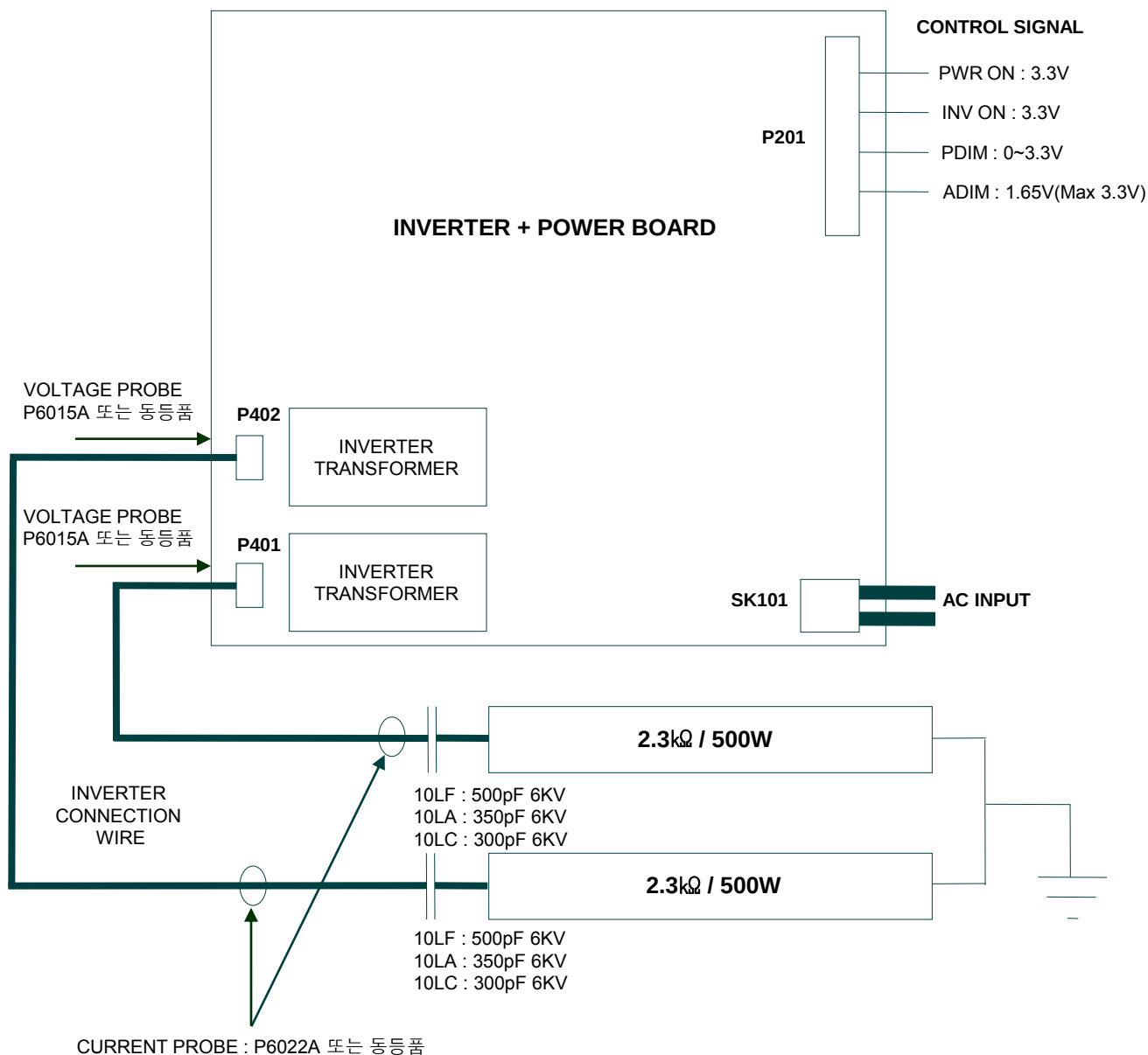
2.12.2.1 Output Connector P402 : Yeonho 35002WR-02L(P)

	Pin No.	Symbol	Color	Description
P402	1	HV_2	White	High Voltage Terminal
	2	HV_2		High Voltage Terminal

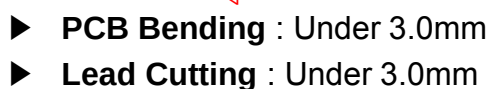
2.12.2.2 Output Connector P401 : Yeonho 35002WR-02L(BK)

	Pin No.	Symbol	Color	Description
P401	1	HV_1	Black	High Voltage Terminal
	2	HV_1		High Voltage Terminal

2.13 Inverter Test Method.



► Components Height



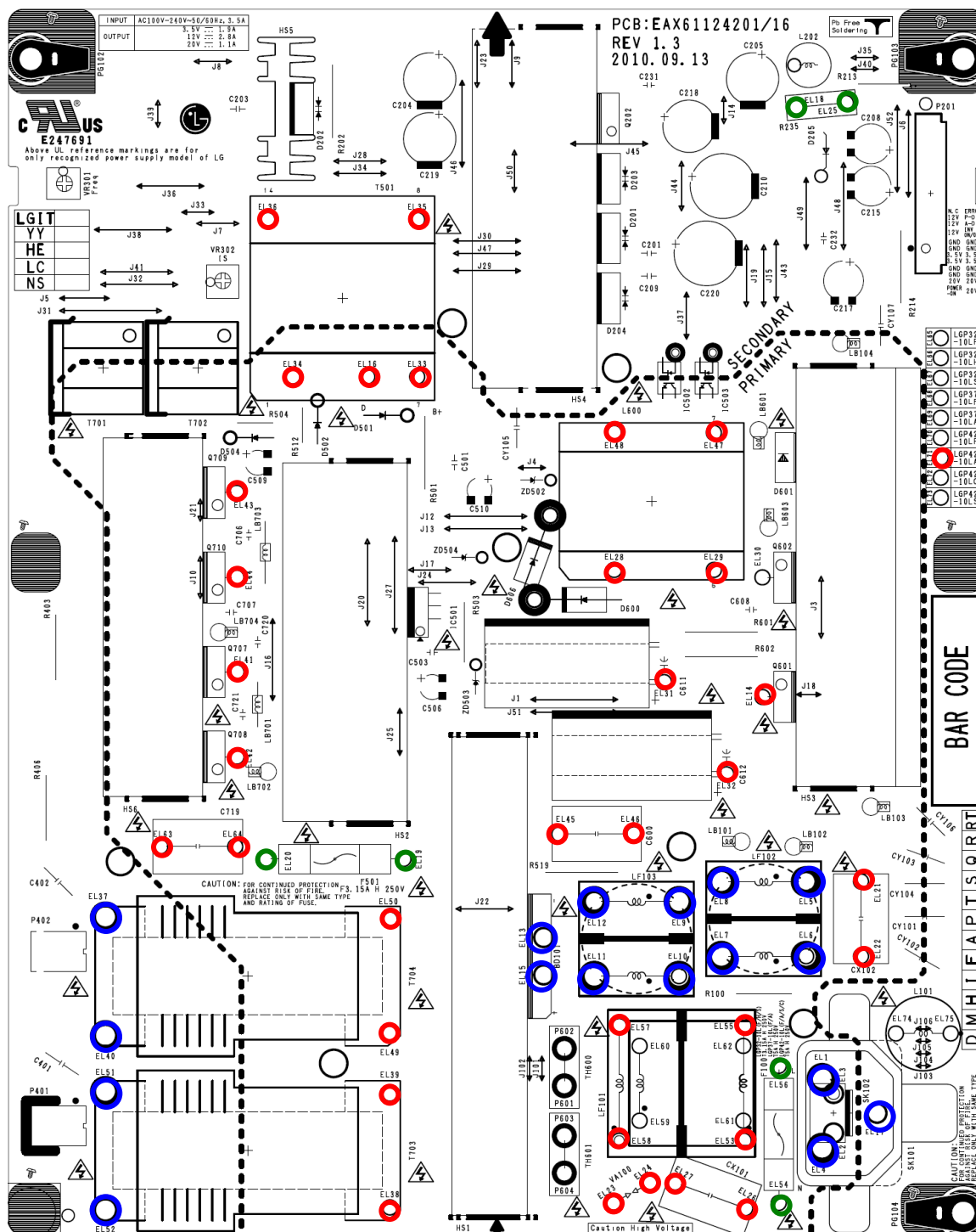
► Apply to Eyelet Point 2.3ø :

► **Apply to Small Eyelet 1.6ø :**

EL14, EL16, EL21, EL22, EL23, EL24, EL26, EL27, EL28, EL29, EL30, EL31, EL32, EL33, EL34, EL35, EL36, EL38, EL39, EL41, EL42, EL43, EL44, EL45, EL46, EL47, EL48, EL49, EL50, EL53, EL55, EL57, EL58, EL63, EL64, EL71 (36EA)

► Apply to Griper Point 1.6ø * 2.6L:

EL18, EL19, EL20, EL25, EL54, ,EL56 (6EA)



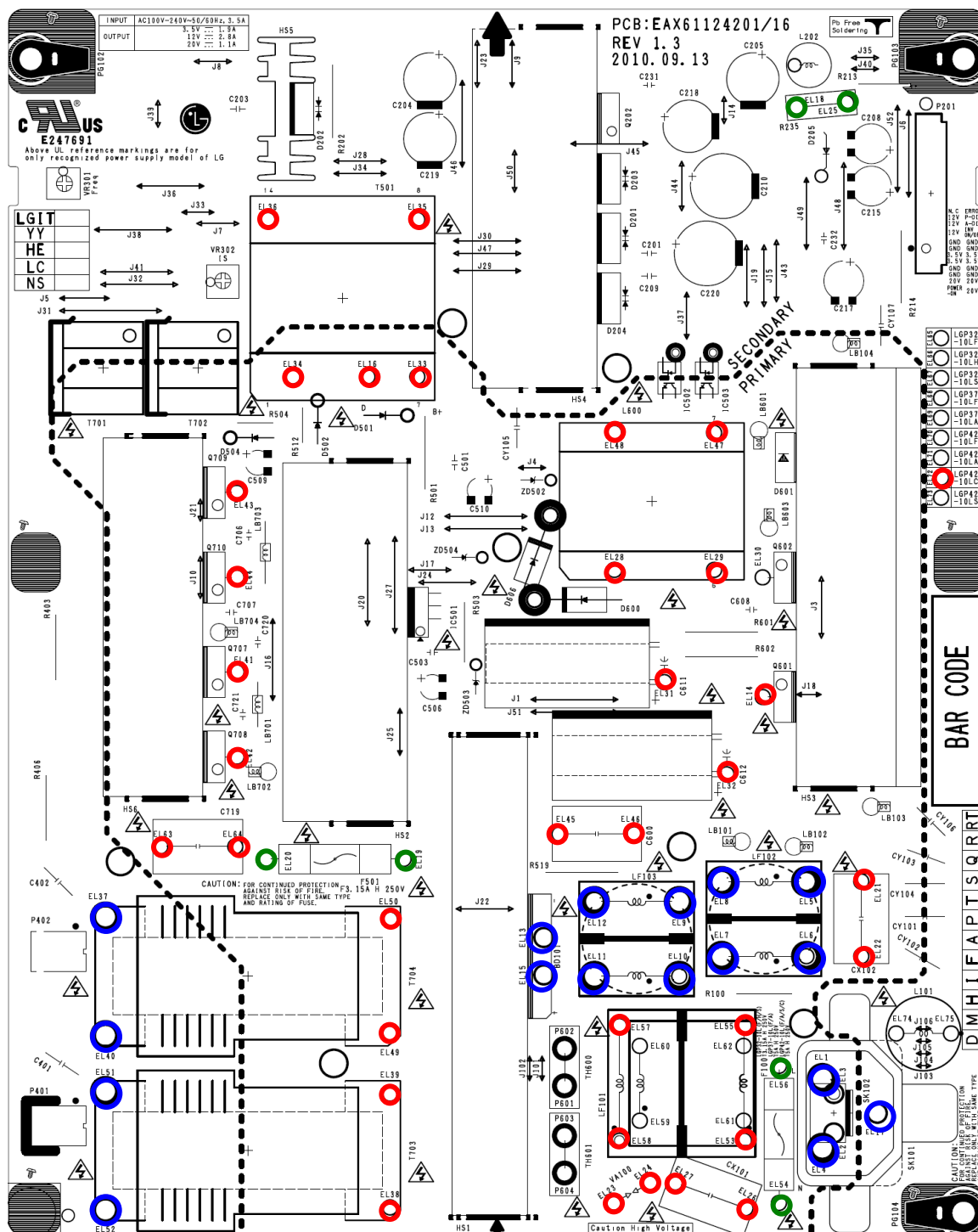
► Apply to Eyelet Point 2.3ø :

► **Apply to Small Eyelet 1.6ø :**

EL14, EL16, EL21, EL22, EL23, EL24, EL26, EL27, EL28, EL29, EL30, EL31, EL32, EL33, EL34, EL35, EL36, EL38, EL39, EL41, EL42, EL43, EL44, EL45, EL46, EL47, EL48, EL49, EL50, EL53, EL55, EL57, EL58, EL63, EL64, EL72 (36EA)

► Apply to Griper Point 1.6ø * 2.6L:

EL18, EL19, EL20, EL25, EL54, ,EL56 (6EA)



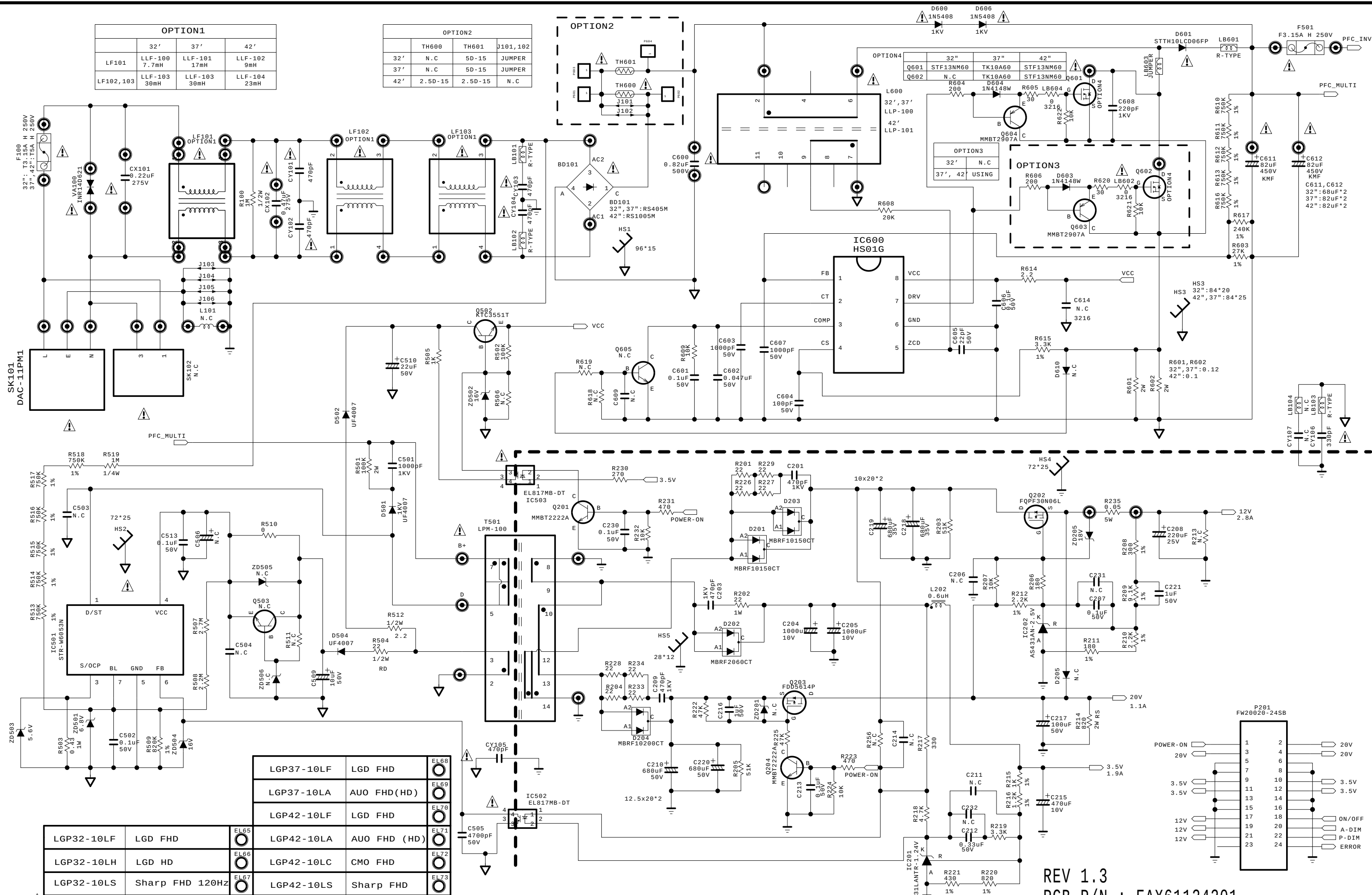
2.16 Electrical Characteristics

No.	Test Item	Test method																		
1	Intermittent Operation stability Test	The switching regulator shall ON/OFF for 20,000 time at an Interval of 10 sec at maximum load, after that electrical Characteristics shall be satisfied.																		
2	Low temperature operation	The switching regulator is left at the operating guarantee Minimum temperature for 2 hours without applying electricity. After that power shall be turned on, and then the electrical Characteristics shall be satisfied.																		
3	Low temperature Storage test Leave At low temperature	The switching regulator is left at minimum storage Temperature for 96 hours or more. Then the switching regulator is left at a room temperature and humidity for 1 hour or more, after that electrical characteristics shall be satisfied.																		
4	Heat cycle storage test	The switching regulator is 10 consecutive temperature cycle that shown below is performed and then leave them at room temperature and humidity for 1 hour or more. After that, electrical characteristics shall be satisfied. <table><tr><th>Time</th><th>Temperature</th></tr><tr><td>30 minutes</td><td>25℃</td></tr><tr><td>30 minutes</td><td>25℃ -> -20℃</td></tr><tr><td>60 minutes</td><td>Minimum storage temperature (-20℃)</td></tr><tr><td>30 minutes</td><td>-20℃ -> 25℃</td></tr><tr><td>30 minutes</td><td>25℃</td></tr><tr><td>30 minutes</td><td>25℃ -> 70℃</td></tr><tr><td>60 minutes</td><td>Maximum storage temperature (70℃)</td></tr><tr><td>30 minutes</td><td>70℃ -> 25℃</td></tr></table>	Time	Temperature	30 minutes	25℃	30 minutes	25℃ -> -20℃	60 minutes	Minimum storage temperature (-20℃)	30 minutes	-20℃ -> 25℃	30 minutes	25℃	30 minutes	25℃ -> 70℃	60 minutes	Maximum storage temperature (70℃)	30 minutes	70℃ -> 25℃
Time	Temperature																			
30 minutes	25℃																			
30 minutes	25℃ -> -20℃																			
60 minutes	Minimum storage temperature (-20℃)																			
30 minutes	-20℃ -> 25℃																			
30 minutes	25℃																			
30 minutes	25℃ -> 70℃																			
60 minutes	Maximum storage temperature (70℃)																			
30 minutes	70℃ -> 25℃																			
5	Heat shock test	Heat shock test performed under following conditions without applying electricity and then leave them at room temperature and humidity for 1 hour or more. After that, electrical characteristics shall be satisfied. Condition : -45℃(30minutes), 120℃(30minutes), Switching time : Less than 5 minutes, 200 cycles.																		

2.17 Mechanical Characteristics

No.	Test Item	Test method
1	Appearance	There shall be no contaminant or dirt on the switching regulator which has adverse effect on electrical characteristics. There shall be no excessive unevenness or scratches on the plated or painted surface.
2	Vibration	While applying electricity : Vibration frequency : 5 ~ 100Hz Acceleration : 4.9 m/s² Vibration in X,Y,Z direction for 30 minutes While applying electricity : Vibration frequency : 5 ~ 100Hz Acceleration : 14.7 m/s² Vibration in X,Y,Z direction for 30 minutes After that electrical characteristics shall be satisfied. There shall be no damage to appearance and construction.
3	Shock	Shock : 98 m/s² On the oak more than 10mm thickness with the flat face, raise the one side for 50mm, and it carries out each side free fall for three sides. There shall be no damage to appearance and construction.

Schematic Diagram

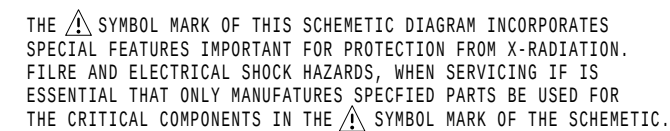


THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

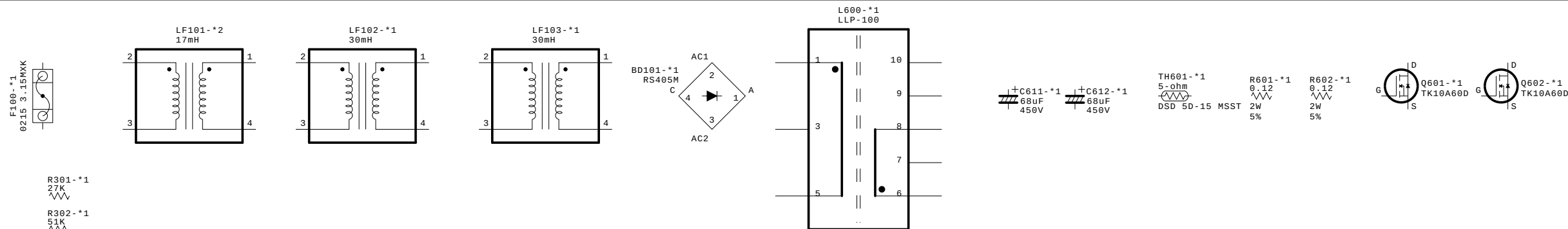
SECRET
LG Electronics



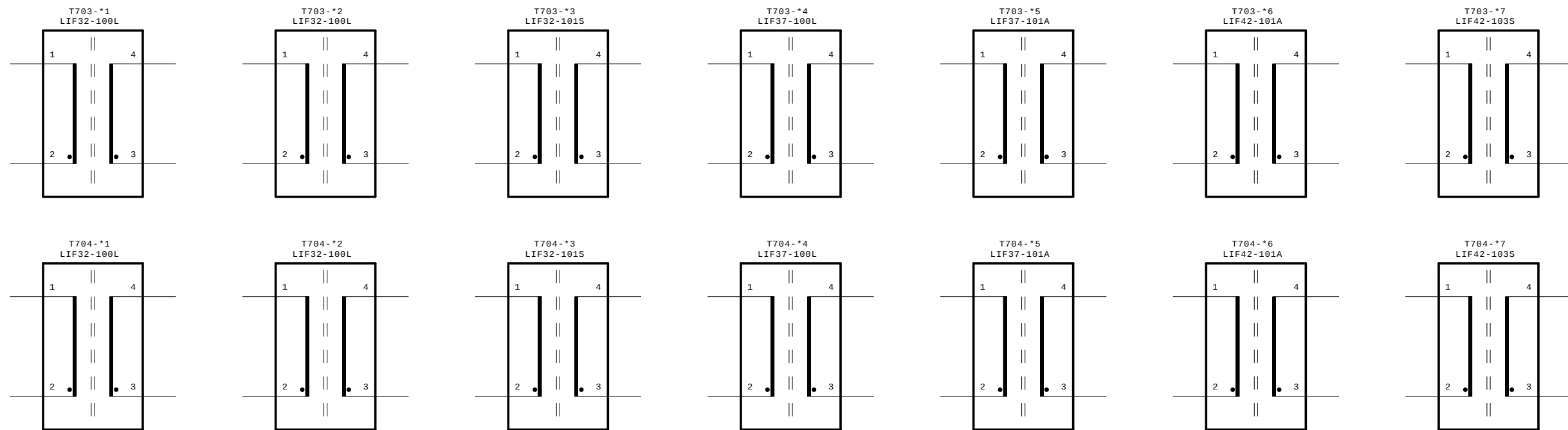
MODEL	10L 32"37"42"NOR	DATE	2010. 9. 13
BLOCK	PFC&MULTI	SHEET	1 / 3



MODEL	10L 32"37"42"NOR	DATE	2010. 9. 13
BLOCK	INVERTER	SHEET	2 / 3



- R301-*1
27K
R302-*1
51K
R306-*1 R306-*2
200K 100K
R308-*1 R308-*2 R308-*3 R308-*4 R308-*5
3.9K 1.5K 18K 13K 6800
R322-*1
5.1K
R323-*1 R323-*2 R323-*3
6.2K 15K 4.7K
R325-*1 R325-*2 R325-*3 R325-*4
8.2K 4.7K 5.1K 10K
R327-*1 R327-*2
5.1K 4.7K
C401-*1
5pF
6KV
C402-*1
39pF
6KV
C403-*1 C403-*2
0.056uF 0.068uF
50V 50V
C404-*1 C404-*2 C404-*3
0.01uF 4700pF 5600pF
50V 50V 50V
C405-*1
5600pF
50V
C406-*1 C406-*2
2200pF 5600pF
50V 50V



THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS, WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.

SECRET

LGElectronics

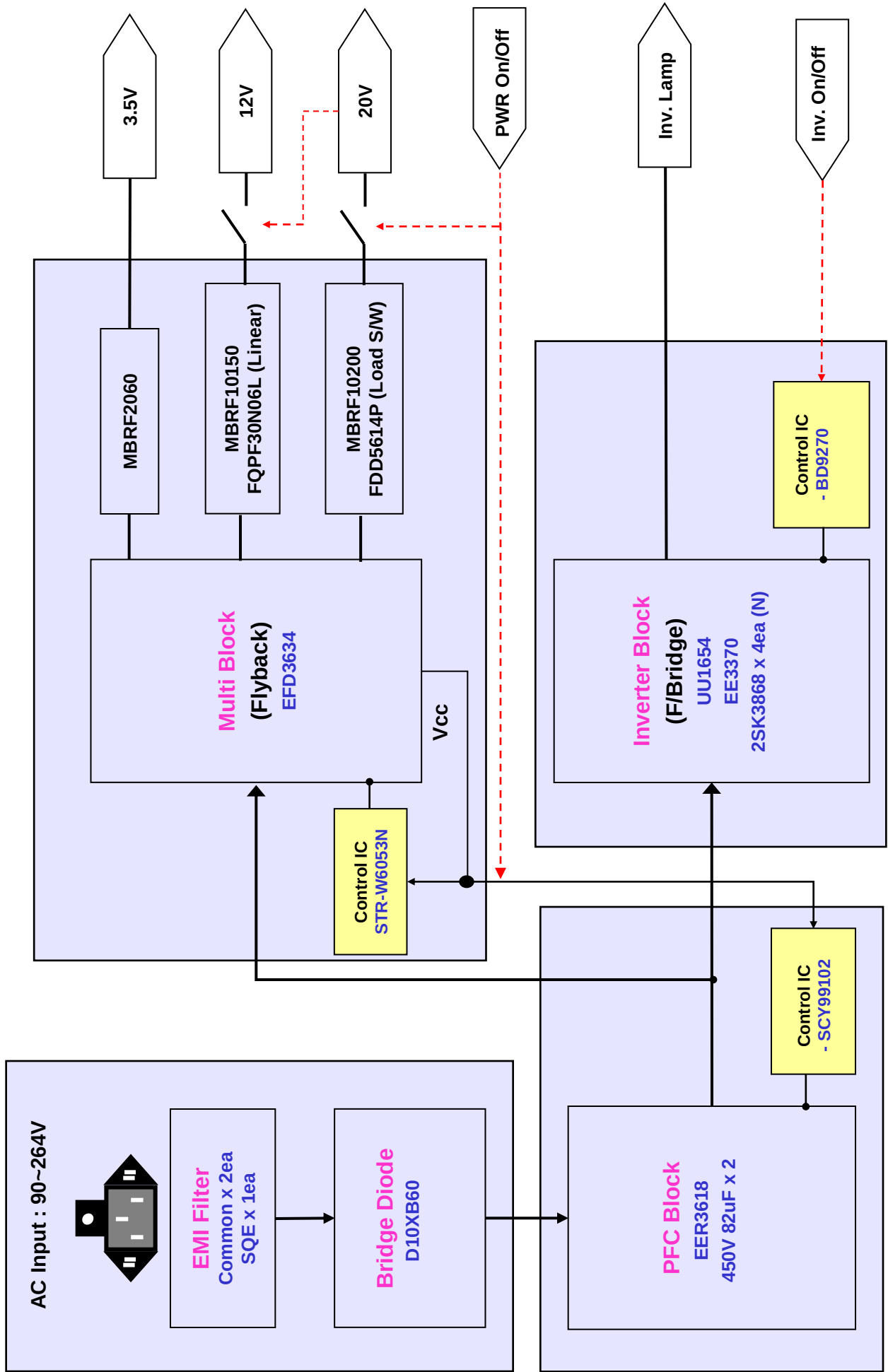
 LG ELECTRONICS

REV 1.3
PCB P/N : EAX61124201

MODEL	10L 32"37"42"N0R	DATE	2010. 9. 13
BLOCK	Multi Option	SHEET	3 / 3

Block Diagram

■ Block Diagram



Parts List

LGP42-10LF(EAY60869402)

No.	LEVEL	Q'TY	Unit	Location	Specification	Description	Maker
1	1	2	g		EF-9301(g) EC-19S-8 CS-9111LF-LGIT	FLUX	ALPHA METALS 동화다무라 철술
2	1	0.018	kg		HSE-11 B20 BAR(SN:99%, AG:0.3%, CU:0.7%)	SOLDER BAR	서브원 HEESUNG METAL
3	1	0.0012	kg		HSE-11 B20 WIRE(SN:99%, AG:0.3%, CU:0.7%)	SOLDER WIRE	서브원 HEESUNG METAL
4	1	0.025	ml		HT-130A-106	BOND-SMD	HI-TECH KOREA
5	1	0.05	ml		H-828W OKE-410 (FOR AUTO DISPENSER) TSE3854D EA-4100 DS-818	SILICON	OKONG OKONG GE TOSHIBA DOW CORNING DONGYANG
6	1	1	Pcs		BUBBLE SHEET (220W*720L 4+/- 1.5H)	BUBBLE SHEET	서브원 JAEIL A-TEK
7	1	1	Pcs		LABEL FOR BOARD (40*8)	LABEL	서브원 JAEIL
8	1	0.0625	Pcs		LABEL FOR BOX	LABEL-BOX	서브원 JAEIL
9	1	0.0031	Pcs		TAPE 50*50K	TAPE	서브원 JAEIL
10	1	0.0625	Pcs		BOX(196W*246L*22H)	BOX	서브원 JAEIL HUAXING PACKING TAILI PACKING
11	1	0.125	Pcs		Tray Board (470*373)	BOX_PAD	서브원 JAEIL HUAXING PACKING TAILI PACKING
12	1	0.1875	Pcs		Cross Board A (472*250)	PARTITION-A	서브원 JAEIL HUAXING PACKING TAILI PACKING
13	1	0.125	Pcs		Cross Board B (375*250)	PARTITION-B	서브원 JAEIL HUAXING PACKING TAILI PACKING
14	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
15	4	1	Pcs	HS1	HEAT SINK, 96*15*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
16	4	1	Pcs	BD101	DIODE BRIDGE D10XB60 DIODE BRIDGE RS1005M DIODE BRIDGE TS10B05G	DIODE-BRIDGE	SHINDENG RECTRON TSC
17	4	1	Pcs	FOR BD101	SEMS 3*12 SCREW, SPRING WASHER BHM Screw, M3.0 *9.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
18	4	0.00001	kg	FOR BD101	HC300	SILICON GLEAZE	서브원 A-TEK
19	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
20	4	1	Pcs	HS2	HEAT SINK, 72*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
21	4	1	Pcs	IC501	STR-W6053N	IC	SANKEN
22	4	1	Pcs	FOR IC501	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
23	4	0.00001	kg	FOR IC501	HC300	SILICON GLEAZE	서브원 A-TEK
24	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
25	4	1	Pcs	HS3	HEAT SINK, 84*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
26	4	2	Pcs	Q601 Q602	STF13NM60N SD14N60 TK13A60D	FET	ST INFINEON TOSHIBA
27	4	1	Pcs	D601	STTH10LCD06FP BYV29FX-600	DIODE	ST NXP
28	4	3	Pcs	FOR Q601, Q602, D601	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
29	4	0.00003	kg	FOR Q601, Q602, D601	HC300	SILICON GLEAZE	서브원 A-TEK
30	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
31	4	1	Pcs	HS4	HEAT SINK, 72*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
32	4	2	Pcs	D201 D203	DIODE MBRF10150CT 10A 150V, TO-220FP DIODE MBRF10U150CT 10A 150V, TO-220FP DIODE FME-210B 10A 150V, TO-220FP	DIODE	SENSITRON KEC SANKEN
33	4	1	Pcs	D204	DIODE MBRF10200CT 10A 200V, TO-220FP DIODE MBRF10U200CT 10A 200V, TO-220FP DIODE FMX-22S 10A 200V, TO-220FP	DIODE	SENSITRON KEC SANKEN
34	4	1	Pcs	Q202	AP9972GI FQPF30N06L STP36NF06FP TK30A06J3A	FET	APEC FAIRCHILD STM TOSHIBA

35	4	4	Pcs	FOR D201, D203, D204, Q202	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
36	4	0.00004	kg	FOR D201, D203, D204, Q202	HC300	SILICON GLEASE	서브원 A-TEK
37	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
38	4	1	Pcs	HS5	HEAT SINK, 20*11.5*28.75	HEATSINK	YUWON NRT HUAPENG GUO TAI
39	4	1	Pcs	D202	DIODE MBRF2060CT 20A 60V, TO-220FP DIODE MBRF2060CTL 20A 60V, TO-220FP DIODE MBRF20U65CT 20A 65V, TO-220FP DIODE FMW-2206 20A 60V, TO-220FP	DIODE	SENSITRON SENSITRON KEC SANKEN
40	4	1	Pcs	FOR D202	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
41	4	0.00001	kg	FOR D202	HC300	SILICON GLEASE	서브원 A-TEK
42	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
43	4	1	Pcs	HS6	HEAT SINK, 72*20*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
44	4	4	Pcs	Q707 Q708 Q709 Q710	2SK3868 FDPF5N50NZFT KF5N50FS	FET	TOSHIBA FAIRCHILD KEC
45	4	4	Pcs	FOR Q707 Q708 Q709 Q710	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
46	4	0.00004	kg	FOR Q707 Q708 Q709 Q710	HC300	SILICON GLEASE	서브원 A-TEK
47	3	1	Pcs	C401	EC 22pF J 6.3KV SL (10mm) DM3JSL220J617 (10mm) CC 3J SL 220J (10mm) CC81 LY 22J (10mm)	High CAPACITOR	SAMWHA APEX 동일전자 YINANDON
48	3	1	Pcs	C402	EC 54pF J 6.3KV SL (10mm) DM3JSL540J617 (10mm) CC 3J SL 54J (10mm) CC81 LY 54J (10mm)	High CAPACITOR	SAMWHA APEX 동일전자 YINANDON
49	3	2	Pcs	C600 C719	MPP 500V 824J 15F (15mm) PCMP 372FL3824 500V 824J(15mm)	CAPACITOR-M/F	SUNGHO PILKOR
50	3	2	Pcs	C611 C612	KMF 450V 82uF LB(18x31.5mm) SK 450V 82uF LR (18x32mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
51	3	1	Pcs	CX101	M.P.P PCX2 337 0.22uF K 100°C AC275V P=15mm, SLIM-7T	CAPACITOR-X	PILKOR OKAYA Eurotronic
52	3	1	Pcs	CX102	M.P.P PCX2 337 0.47uF K 100°C AC275V P=15mm, SLIM-10T	CAPACITOR-X	PILKOR OKAYA Eurotronic
53	3	5	Pcs	CY101 CY102 CY103 CY104 CY105	SD B 2G 471K 08 BW, Y1, 105°C, P=10mm DA2GYB471KK617(G), 105°C, P=10mm DA2GYB471KBK04, 105°C, P=10mm CT81 471K 400V/AC, 105°C, P=10mm	CAPACITOR-Y	SAMWHA APEX 동일전자 YINANDON
54	3	1	Pcs	CY106	SD B 2G 331K 08 BW, Y1, 105°C, P=10mm DA2GYB331KK617(G), 105°C, P=10mm DA2GYB331KBK04, 105°C, P=10mm CT81 331K 400V/AC, 105°C, P=10mm	CAPACITOR-Y	SAMWHA APEX 동일전자 YINANDON
55	3	2	Pcs	D600 D606	S3V60, 20mm 1N5408, 20mm 1N5408, 20mm 30PDA60, 20mm	DIODE	SHINDENGEN RECTRON TSC NI
56	3	1	Pcs	F100	T5A H 250V, 215, LEAD RED (1 LINE) T5A H 250V, 50CT, LEAD RED (1 LINE)	FUSE	LITTEL FUSE DAIN
57	3	1	Pcs	F501	F3.15A H 250V, 216, LEAD VIOLET (2 LINE) F3.15A H 250V, 50CF, LEAD VIOLET (2 LINE)	FUSE	LITTEL FUSE DAIN
58	3	2	Pcs	IC502 IC503	EL817M(DT) B TYPE(10mm) LTV817M-BN TYPE(10mm)	PHOTO COUPLER	EVERLIGHT LITEON
59	3	1	Pcs	L202	LB-001, 0.6uH(3*10), P6mm	CHOKE-BAR	NAMYANG CLOVER SOOJUNG LIENCHANG
60	3	1	Pcs	L600	LLP-101 EER3618, 220uH	PFC CHOKE	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
61	3	1	Pcs	LF101	LLF-102, SQE2828 9mH	LINE FILTER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
62	3	2	Pcs	LF102 LF103	LLF-104, CH935230 23mH	LINE FILTER	CLOVER SOOJUNG KYOUNGIN FEELUX LIENCHANG TNC DONGIL TECH
63	3	1	Pcs	P201	SMW200-24CF(B) FW20020-24SB	CONNECTOR	YEONHO FOOSUNG
64	3	1	Pcs	P401	35002WR-02L(BK), Black, LOCKING TYPE	CONNECTOR	YEONHO
65	3	1	Pcs	P402	35002WR-02L(P), White, LOCKING TYPE	CONNECTOR	YEONHO

66	3	3	Pcs	PG102 PG103 PG104	Rug GND, SPCC 0.4t, CuSn Plating, 16.15L*7.4W*3.6H	GROUND PLATE	ST TELECOM LEZHI SAMSUNG JS DOSUNG
67	3	1	Pcs	R235	MPR 5W 0.05 ohm J MPR 5W 0.05 ohm J	RESISTOR-CEMENT	SMART ABCO
68	3	1	Pcs	SK101	DAC-11PM1 ST-A01-002LT	INLET	DONGIL TECH BEJ
69	3	1	Pcs	T501	LPM-100, EFD3634H, 1mH	TRANSFORMER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
70	3	2	Pcs	T701 T702	LIP-001	TRANSFORMER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
71	3	2	Pcs	T703 T704	LIF42-100L, UU1654	TRANSFORMER	CLOVER NAMYANG KYOUNGIN FEELUX LIENCHANG
72	3	2	Pcs	TH600 TH601	MF72-2.5D15 DSC2.5D15	THERMISTOR	NSE DSC
73	3	1	Pcs	VA100	INR14D621K(7.5mm),073C(BLACK TUBE) SVC621D-14A,073C(BLACK TUBE)	VARISTOR	AMOTECH SAMHWA
74	4	11	Pcs	C207 C213 C230 C303 C305 C312 C324 C502 C513 C601 C606	CAP FLAT 100NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
75	4	1	Pcs	C212	CAP FLAT 0.33UF K 50V X7R 2012	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
76	4	1	Pcs	C216	CAP FLAT 1UF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
77	4	2	Pcs	C302 C310	CAP FLAT 10NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
78	4	8	Pcs	C304 C314 C315 C318 C603 C607 C712 C713	CAP FLAT 1NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
79	4	5	Pcs	C221 C308 C313 C710 C711	CAP FLAT 1UF K 25V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
80	4	3	Pcs	C309 C403 C602	CAP FLAT 47NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
81	4	2	Pcs	C311 C505	CAP FLAT 4.7NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
82	4	1	Pcs	C317	CAP FLAT 0.47UF K 25V X7R 2012	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
83	4	3	Pcs	C404 C405 C406	CAP FLAT 15NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO

84	4	1	Pcs	C604	CAP FLAT 100PF J 50V CG(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
85	4	1	Pcs	C605	CAP FLAT 22PF J 50V CG(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
86	4	4	Pcs	D401 D402 D403 D404	BAV99 SOT-23	CHIP-DIODE	ON SEMI NXP DIODES
87	4	6	Pcs	D603 D604 D701 D702 D703 D704	MMSD4148T, SOD-123 1N4148W, SOD-123 1N4148W, SOD-123	CHIP-DIODE	ON SEMI DIODES RECTRON
88	4	1	Pcs	IC201	TLV431BSN1T1G, SOT-23, 1.24V±0.5% AZ431LANTR-E1, SOT-23, 1.24V±0.5%	IC-SMD	ONSEMI BCD
89	4	1	Pcs	IC202	KIA431BM, SOT-23, 2.5V±0.5% KA431SL, SOT-23, 2.5V±0.5% AS431AN, SOT-23, 2.5V±0.5%	IC-SMD	KEC FAIRCHILD BCD
90	4	1	Pcs	IC301	BD9270F, SOP-24	IC-SMD	ROHM
91	4	1	Pcs	IC600	SCY99102BDR2G, HS01G, SO-8	IC-SMD	ONSEMI
92	4	2	Pcs	LB602 LB604	RES FLAT 0J 1/4W(3216)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
93	4	2	Pcs	Q201 Q204	MMBT2222A, SOT-23 KTN2222AS, SOT-23 KST2222A, SOT-23	CHIP-TR	ONSEMI KEC FAIRCHILD
94	4	1	Pcs	Q203	FDD5614P TO-252 NTD20P06L TO-252	FET-SMD	FAIRCHILD ONSEMI
95	4	1	Pcs	Q502	KTC3551, SOT-23 BCW66GL, SOT-23	CHIP-TR	KEC ONSEMI
96	4	2	Pcs	Q603 Q604	MMBT2907A, SOT-23 KTN2907AS, SOT-23 KST2907A, SOT-23	CHIP-TR	ONSEMI KEC FAIRCHILD
97	4	8	Pcs	R201 R204 R226 R227 R228 R229 R233 R234	RES FLAT 22 J 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
98	4	2	Pcs	R203 R205	RES FLAT 51K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
99	4	1	Pcs	R206	RES FLAT 180 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
100	4	12	Pcs	R207 R224 R232 R309 R327 R609 R621 R622 R711 R713 R724 R725	RES FLAT 10K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
101	4	1	Pcs	R208	RES FLAT 300 F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
102	4	1	Pcs	R209	RES FLAT 9.1K F 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
103	4	2	Pcs	R210 R212	RES FLAT, 2.2K, F, 1/8, 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
104	4	1	Pcs	R211	RES FLAT 180 F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
105	4	1	Pcs	R215	RES FLAT 1K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
106	4	1	Pcs	R216	RES FLAT 1.2K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
107	4	1	Pcs	R217	RES FLAT 330 J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

108	4	3	Pcs	R303 R305 R505	RES FLAT 1K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
109	4	1	Pcs	R219	RES FLAT 3.3K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
110	4	1	Pcs	R220	RES FLAT 820 F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
111	4	1	Pcs	R221	RES FLAT 430 F 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
112	4	1	Pcs	R218	RES FLAT 4.7K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
113	4	2	Pcs	R222 R225	RES FLAT 47K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
114	4	2	Pcs	R223 R231	RES FLAT 470 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
115	4	5	Pcs	R230 R710 R712 R726 R727	RES FLAT 270 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
116	4	1	Pcs	R301	RES FLAT, 39K, F, 1/8, 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
117	4	1	Pcs	R302	RES FLAT 62K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
118	4	3	Pcs	R304 R314 R502	RES FLAT 100K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
119	4	2	Pcs	R306 R344	RES FLAT 150K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
120	4	2	Pcs	R307 R608	RES FLAT 20K J 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
121	4	1	Pcs	R308	RES FLAT 10K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
122	4	1	Pcs	R310	RES FLAT 100K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
123	4	3	Pcs	R311 R312 R614	RES FLAT 2.2 J 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
124	4	1	Pcs	R313	RES FLAT 39K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
125	4	2	Pcs	R315 R316	RES FLAT 110K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
126	4	1	Pcs	R317	RES FLAT 75K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
127	4	1	Pcs	R318	RES FLAT 68K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

128	4	1	Pcs	R319	RES FLAT 10 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
129	4	1	Pcs	R322	RES FLAT 6.2K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
130	4	1	Pcs	R323	RES FLAT 6.8K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
131	4	1	Pcs	R324	RES FLAT 22K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
132	4	1	Pcs	R325	RES FLAT 9.1K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
133	4	1	Pcs	R326	RES FLAT, 470K, F, 1/8, 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
134	4	2	Pcs	R340 R510	RES FLAT 0 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
135	4	1	Pcs	R507	RES FLAT 2.7M J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
136	4	1	Pcs	R508	RES FLAT 2.2M F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
137	4	1	Pcs	R509	RES FLAT 820K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
138	4	11	Pcs	R513 R514 R515 R516 R517 R518 R610 R611 R612 R613 R616	RES FLAT 750K F 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
139	4	1	Pcs	R603	RES FLAT 27K F 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
140	4	2	Pcs	R604 R606	RES FLAT 200 J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
141	4	2	Pcs	R605 R620	RES FLAT 30 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
142	4	1	Pcs	R615	RES FLAT 3.3K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
143	4	1	Pcs	R617	RES FLAT 240K F 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
144	4	1	Pcs	ZD205	MM3Z18VST1G 18V, SOD323 MMSZ5248BS, 18V, SOD323 BZT52C18S, 18V, SOD323 KDZ18V-RTK/P, SOD323	DIODE-ZENER-SMD	ON-SEMI RECTRON DIODES KEC
145	4	1	Pcs	ZD501	MM3Z6V8ST1G, SOD323 MMSZ5235BS, 6.8V, SOD323 BZT52C6V8S, 6.8V, SOD323 KDZ 6.8V-RTK/P, SOD323	DIODE-ZENER-SMD	ON-SEMI RECTRON DIODES KEC

146	5	3	Pcs	C201 C203 C209	EK R 3A 471K 07 FK5, 125°C, 1KV, P=5MM DG3AHR471K959, 125°C, 1KV, P=5MM CK3AYR471KFK, 125°C, 1KV, P=5MM CC81 1KV 471K 470PF, 125°C, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
147	5	2	Pcs	C204 C205	NXB 1000uF 10V (10x16mm) SG 1000uF 10V (10x16mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
148	5	1	Pcs	C208	NXB 220uF 25V (8x11.5mm) SG 220uF 25V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
149	5	2	Pcs	C210 C220	KMG 50V 680uF (12.5x20mm) SK 50V 680uF (12.5x20mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
150	5	1	Pcs	C215	NXB 470uF 10V (8x11.5mm) SG 470uF 10V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
151	5	1	Pcs	C217	NXB 100uF 50V (8*11.5mm) SG 100uF 50V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
152	5	2	Pcs	C218 C219	NXB 35V 680M (10x20mm) SG 35V 680M (10x20mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
153	5	1	Pcs	C501	EK R 3A 102K 09 FK5, 125°C, 1KV, P=5MM DG3AHR102K959, 125°C, 1KV, P=5MM CK3AYR102KFK, 125°C, 1KV, P=5MM CC81 1KV 102K 1000PF, 125°C, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
154	5	1	Pcs	C509	NXB 10uF 50V (5*11mm) SG 10uF 50V (5x11mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
155	5	1	Pcs	C510	NXB 22uF 50V (5*11mm) SG 22uF 50V (5x11mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
156	5	1	Pcs	C608	EK R 3A 221K 06 FK5, 125°C, 1KV, P=5MM DG3AHR221K959, 125°C, 1KV, P=5MM CK3AYR221KFK, 125°C, 1KV, P=5MM CC81 1KV 221K 220PF, 125°C, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
157	5	2	Pcs	C706 C707	EK R 3A 101K 06 FK5, 125°C, 1KV, P=5MM DG3AHR101K959, 125°C, 1KV, P=5MM CK3AYR101KFK, 125°C, 1KV, P=5MM CC81 1KV 101K 100PF, 125°C, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
158	5	3	Pcs	D501 D502 D504	DIODE FRD UF4007 1A 1000V 75ns DO-41 T&R UF4007,DO-41 HER108G,DO-41 UF1007,DO-41	DIODE	TSC Fairchild RECTRON Diodes
159	5	17	Pcs	EL1 EL10 EL11 EL12 EL13 EL15 EL17 EL37 EL4 EL40 EL5 EL51 EL52 EL6 EL7 EL8 EL9	EYE-LET DIA 2.3*.3.1L	EYELET	DARIN LEZHI SAMSUNG JS DOSUNG
160	5	36	Pcs	EL14 EL16 EL21 EL22 EL23 EL24 EL26 EL27 EL28 EL29 EL30 EL31 EL32 EL33 EL34 EL35 EL36 EL38 EL39 EL41 EL42 EL43 EL44 EL45 EL46 EL47 EL48 EL49 EL50 EL53 EL55 EL57 EL58 EL63 EL64 EL70	EYELET DIA 1.6*3.0	EYELET	DARIN LEZHI SAMSUNG JS DOSUNG
161	5	6	Pcs	EL18 EL19 EL20 EL25 EL54 EL56	GRIPER DIA 1.6*2.6L	GRIPER	DARIN LEZHI SAMSUNG JS DOSUNG
162	5	53	Pcs	J1 J10 J103 J104 J105 J106 J12 J13 J14 J15 J16 J17 J18 J19 J20 J21 J22 J23 J24 J25 J27 J28 J29 J3 J30 J31 J32 J33 J34 J35 J36 J37 J38 J4 J40 J41 J43 J44 J45 J46 J47 J48 J49 J5 J50 J51 J52 J6 J8 J9 LB603 LB701 LB702	LEAD WIRE DΦ=0.6mm ROLL TYPE(UNIT:Kg)	JUMPER	Tianjin Hongyuan, ST TELECOM TPI DM TPC ILKWANG
163	5	5	Pcs	LB101 LB102 LB103 LB601 LB704	BFS3550R2F SER3550050BA	BEAD	SAMWHA SCC
164	5	1	Pcs	LB703	BFS3550A0L SEB3550050BA	BEAD	SAMWHA SCC
165	5	4	Pcs	P601 P602 P603 P604	PIN 5.5 * Φ2.3 (right angle in the edge)	GT PIN	ST TELECOM LEZHI SAMSUNG JS DOSUNG
166	5	1	Pcs	R100	MSR37 1/2W 1M ohm J Surge PRC 1M J 1/2W Surge	RESISTOR-SURGE	PILKOR SMART
167	5	1	Pcs	R202	MORS 1N 22 ohm J RSD 1W 22 ohm J PR01 1W 22R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
168	5	1	Pcs	R214	MORS 2W 820 ohm J TC, MINI RSD 2W 820Ω J TA63 PR02 2W 820R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
169	5	2	Pcs	R403 R406	MORS 2W 12R ohm F TC RSD 12Ω F 2W TA63 PR02 2W 12R ohm F	RESISTOR-M/O	ABCO SMART PILKOR
170	5	1	Pcs	R501	MORS 2W 100K ohm J RSD 2W 100KΩ J TA63 PR02 2W 100K ohm J	RESISTOR-M/O	ABCO SMART PILKOR
171	5	1	Pcs	R503	WNPS 1N 0.43 ohm J PRN 1W 0.43 ohm J WWR 1N 0.43 ohm J	RESISTOR-W/W	ABCO SMART PILKOR
172	5	1	Pcs	R504	CRS 1/2W 22R ohm J TC RDM 22Ω J 1/2W SFR25H 1/2W 22R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
173	5	1	Pcs	R512	CRS 1/2W 2.2R ohm J TC RDM 2.2Ω J 1/2W SFR25H 1/2W 2R2 ohm J	RESISTOR-M/O	ABCO SMART PILKOR
174	5	1	Pcs	R519	CR 1/4W 1M ohm J TC RD 1MΩ J 1/4W SFR25 1/4W 1M ohm J	RESISTOR-M/O	ABCO SMART PILKOR
175	5	2	Pcs	R601 R602	WNPS 2N 0.1 ohm J PRN 2W 0.1 ohm J WWR 2N 0.1ohm J	RESISTOR-W/W	ABCO SMART PILKOR

176	5	1	Pcs	VR301	NVZ6TLTA 10k Ω RES VARIABLE EVM-AASA01B14 10K 1/10W	RESISTOR-VR	HOKURIKU PANASONIC
177	5	2	Pcs	ZD502 ZD504	1N5246B, 16V, DO-35 MTZJ16B, DO-34 1N5246, 16V, DO-35	DIODE-ZENER	VISHAY ROHM RECTRON
178	5	1	Pcs	ZD503	1N5232B, 5.6V, DO-35 MTZJ5.6B, DO-34 1N5232, 5.6V, DO-35	DIODE-ZENER	VISHAY ROHM RECTRON
179	6	1	Pcs		LGP323742-10L, (196x246),FR-1 1oz 1.6t (REV 1.3) [DS:DS-1108, KB: KB-3152, CC:CCP-6440(SM)]	PCB	HUIHO HSIANG KUO SAMHAN DAEDUCK GDS (TIANJIN DAEDUCK) CHIN POON WEIJUN

LGP42-10LA(EAY60869403)

No.	LEVEL	Q'TY	Unit	Location	Specification	Description	Maker
1	1	2	g		EF-9301(g) EC-19S-8 CS-9111LF-LGIT	FLUX	ALPHA METALS 동화다무라 청솔
2	1	0.018	kg		HSE-11 B20 BAR(SN:99%, AG:0.3%, CU:0.7%)	SOLDER BAR	서브원 HEESUNG METAL
3	1	0.0012	kg		HSE-11 B20 WIRE(SN:99%, AG:0.3%, CU:0.7%)	SOLDER WIRE	서브원 HEESUNG METAL
4	1	0.025	mL		HT-130A-106	BOND-SMD	HI-TECH KOREA
5	1	0.05	mL		H-828W OKE-410 (FOR AUTO DISPENSER) TSE3854D EA-4100 DS-818	SILICON	OKONG OKONG GE TOSHIBA DOW CORNING DONGYANG
6	1	1	Pcs		BUBBLE SHEET (220W*720L 4+/- 1.5H)	BUBBLE SHEET	서브원 JAEIL A-TEK
7	1	1	Pcs		LABEL FOR BOARD (40*8)	LABEL	서브원 JAEIL
8	1	0.0625	Pcs		LABEL FOR BOX	LABEL-BOX	서브원 JAEIL
9	1	0.0031	Pcs		TAPE 50*50K	TAPE	서브원 JAEIL
10	1	0.0625	Pcs		BOX(196W*246L*22H)	BOX	서브원 JAEIL HUAXING PACKING TAILI PACKING
11	1	0.125	Pcs		Tray Board (470*373)	BOX_PAD	서브원 JAEIL HUAXING PACKING TAILI PACKING
12	1	0.1875	Pcs		Cross Board A (472*250)	PARTITION-A	서브원 JAEIL HUAXING PACKING TAILI PACKING
13	1	0.125	Pcs		Cross Board B (375*250)	PARTITION-B	서브원 JAEIL HUAXING PACKING TAILI PACKING
14	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
15	4	1	Pcs	HS1	HEAT SINK, 96*15*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
16	4	1	Pcs	BD101	DIODE BRIDGE D10XB60 DIODE BRIDGE RS1005M DIODE BRIDGE TS10B05G	DIODE-BRIDGE	SHINDENGEN RECTRON TSC
17	4	1	Pcs	FOR BD101	SEMS 3*12 SCREW, SPRING WASHER BHM Screw, M3.0 *9.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
18	4	0.00001	kg	FOR BD101	HC300	SILICON GLEASE	서브원 A-TEK
19	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
20	4	1	Pcs	HS2	HEAT SINK, 72*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
21	4	1	Pcs	IC501	STR-W6053N	IC	SANKEN
22	4	1	Pcs	FOR IC501	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
23	4	0.00001	kg	FOR IC501	HC300	SILICON GLEASE	서브원 A-TEK
24	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
25	4	1	Pcs	HS3	HEAT SINK, 84*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
26	4	2	Pcs	Q601 Q602	STF13NM60N SD14N60 TK13A60D	FET	ST INFINEON TOSHIBA
27	4	1	Pcs	D601	STTH10LCD06FP BYV29FX-600	DIODE	ST NXP
28	4	3	Pcs	FOR Q601, Q602, D601	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
29	4	0.00003	kg	FOR Q601, Q602, D601	HC300	SILICON GLEASE	서브원 A-TEK
30	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
31	4	1	Pcs	HS4	HEAT SINK, 72*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
32	4	2	Pcs	D201 D203	DIODE MBRF10150CT 10A 150V, TO-220FP DIODE MBRF10U150CT 10A 150V, TO-220FP DIODE FME-210B 10A 150V, TO-220FP	DIODE	SENSITRON KEC SANKEN
33	4	1	Pcs	D204	DIODE MBRF10200CT 10A 200V, TO-220FP DIODE MBRF10U200CT 10A 200V, TO-220FP DIODE FMX-22S 10A 200V, TO-220FP	DIODE	SENSITRON KEC SANKEN

34	4	1	Pcs	Q202	AP9972GI FQPF30N06L STP36NF06FP TK30A06J3A	FET	APEC FAIRCHILD STM TOSHIBA
35	4	4	Pcs	FOR D201, D203, D204, Q202	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
36	4	0.00004	kg	FOR D201, D203, D204, Q202	HC300	SILICON GLEASE	서브원 A-TEK
37	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
38	4	1	Pcs	HS5	HEAT SINK Extruded Al6063 20*11.5*28.75	HEATSINK	YUWON NRT HUAPENG GUO TAI
39	4	1	Pcs	D202	DIODE MBRF2060CT 20A 60V, TO-220FP DIODE MBRF2060CTL 20A 60V, TO-220FP DIODE MBRF20U65CT 20A 65V, TO-220FP DIODE FMW-2206 20A 60V, TO-220FP	DIODE	SENSITRON SENSITRON KEC SANKEN
40	4	1	Pcs	FOR D202	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
41	4	0.00001	kg	FOR D202	HC300	SILICON GLEASE	서브원 A-TEK
42	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
43	4	1	Pcs	HS6	HEAT SINK, 72*20*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
44	4	4	Pcs	Q707 Q708 Q709 Q710	2SK3868 FDPF5N50NZFT KF5N50FS	FET	TOSHIBA FAIRCHILD KEC
45	4	4	Pcs	FOR Q707 Q708 Q709 Q710	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
46	4	0.00004	kg	FOR Q707 Q708 Q709 Q710	HC300	SILICON GLEASE	서브원 A-TEK
47	3	1	Pcs	C401	EC 5pF J 6.3KV SL (10mm) DM3JSL050J617 (10mm) CC 3J SL 050J (10mm) CC81 LY 5D (10mm)	High CAPACITOR	SAMWHA APEX 동일전자 YINANDON
48	3	1	Pcs	C402	EC 39pF J 6.3KV SL (10mm) DM3JSL390J617 (10mm) CC 3J SL 39J (10mm) CC81 LY 39J (10mm)	High CAPACITOR	SAMWHA APEX 동일전자 YINANDON
49	3	2	Pcs	C600 C719	MPP 500V 824J 15F (15mm) PCMP 372FL3824 500V 824J(15mm)	CAPACITOR-M/F	SUNGHO PILKOR
50	3	2	Pcs	C611 C612	KMF 450V 82uF LB(18x31.5mm) SK 450V 82uF LR (18x32mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
51	3	1	Pcs	CX101	M.P.P PCX2 337 0.22uF K 100℃ AC275V P=15mm	CAPACITOR-X	PILKOR
52	3	1	Pcs	CX102	M.P.P PCX2 337 0.47uF K 100℃ AC275V P=15mm	CAPACITOR-X	PILKOR
53	3	5	Pcs	CY101 CY102 CY103 CY104 CY105	SD B 2G 471K 08 BW, Y1, 105℃, P=10mm DA2GYB471KK617(G), 105℃, P=10mm DA2GYB471KBK04, 105℃, P=10mm CT81 471K 400V/AC, 105℃, P=10mm	CAPACITOR-Y	SAMWHA APEX 동일전자 YINANDON
54	3	1	Pcs	CY106	SD B 2G 331K 08 BW, Y1, 105℃, P=10mm DA2GYB331KK617(G), 105℃, P=10mm DA2GYB331KBK04, 105℃, P=10mm CT81 331K 400V/AC, 105℃, P=10mm	CAPACITOR-Y	SAMWHA APEX 동일전자 YINANDON
55	3	2	Pcs	D600 D606	S3V60, 20mm 1N5408, 20mm 1N5408, 20mm 30PDA60, 20mm	DIODE	SHINDENGEN RECTRON TSC NI
56	3	1	Pcs	F100	T5A H 250V, 215, LEAD RED T5A H 250V, 50CT, LEAD RED	FUSE	LITTEL FUSE DAIN
57	3	1	Pcs	F501	F3.15A H 250V, 216, LEAD VIOLET F3.15A H 250V, 50CF, LEAD VIOLET	FUSE	LITTEL FUSE DAIN
58	3	2	Pcs	IC502 IC503	EL817M(DT) B TYPE(10mm) LTV817M-BN TYPE(10mm)	PHOTO COUPLER	EVERLIGHT LITEON
59	3	1	Pcs	L202	LB-001, 0.6uH(3*10), P6mm	CHOKE-BAR	NAMYANG CLOVER SOOJUNG LIENCHANG
60	3	1	Pcs	L600	LLP-101 EER3618, 220uH	PFC CHOKE	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
61	3	1	Pcs	LF101	LLF-102, SQE2828 9mH	LINE FILTER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
62	3	2	Pcs	LF102 LF103	LLF-104, CH935230 23mH	LINE FILTER	CLOVER SOOJUNG KYOUNGIN FEELUX LIENCHANG TNC DONGIL TECH

63	3	1	Pcs	P201	SMW200-24CF(B) FW20020-24SB	CONNECTOR	YEONHO FOOSUNG
64	3	1	Pcs	P401	35002WR-02L(BK), Black, LOCKING TYPE	CONNECTOR	YEONHO
65	3	1	Pcs	P402	35002WR-02L(P), White, LOCKING TYPE	CONNECTOR	YEONHO
66	3	3	Pcs	PG102 PG103 PG104	Rug GND, SPCC 0.4t, CuSn Plating, 16.15L*7.4W*3.6H	GROUND PLATE	ST TELECOM LEZHI SAMSUNG JS DOSUNG
67	3	1	Pcs	R235	MPR 5W 0.05 ohm J MPR 5W 0.05 ohm J	RESISTOR-CEMENT	SMART ABCO
68	3	1	Pcs	SK101	DAC-11PM1 ST-A01-002LT	INLET	DONGIL TECH BEJ
69	3	1	Pcs	T501	LPM-100, EFD3634H, 1mH	TRANSFORMER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
70	3	2	Pcs	T701 T702	LIP-001	TRANSFORMER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
71	3	2	Pcs	T703 T704	LIF42-101A, UU1654	TRANSFORMER	CLOVER NAMYANG KYOUNGIN FEELUX LIENCHANG
72	3	2	Pcs	TH600 TH601	MF72-2.5D15 DSC2.5D15	THERMISTOR	NSE DSC
73	3	1	Pcs	VA100	INR14D621K(7.5mm),073C (BLACK TUBE) SVC621D-14A,073C (BLACK TUBE)	VARISTOR	AMOTECH SAMHWA
74	4	11	Pcs	C207 C213 C230 C303 C305 C312 C324 C502 C513 C601 C606	CAP FLAT 100NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
75	4	1	Pcs	C212	CAP FLAT 0.33UF K 50V X7R 2012	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
76	4	1	Pcs	C216	CAP FLAT 1UF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
77	4	2	Pcs	C302 C310	CAP FLAT 10NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
78	4	8	Pcs	C304 C314 C315 C318 C603 C607 C712 C713	CAP FLAT 1NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
79	4	5	Pcs	C221 C308 C313 C710 C711	CAP FLAT 1UF K 25V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
80	4	3	Pcs	C309 C403 C602	CAP FLAT 47NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
81	4	2	Pcs	C311 C505	CAP FLAT 4.7NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO

82	4	1	Pcs	C317	CAP FLAT 0.47UF K 25V X7R 2012	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
83	4	3	Pcs	C404 C405 C406	CAP FLAT 5.6NF K 50V X7R 2012 T&R	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
84	4	1	Pcs	C604	CAP FLAT 100PF J 50V CG(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
85	4	1	Pcs	C605	CAP FLAT 22PF J 50V CG(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
86	4	4	Pcs	D401 D402 D403 D404	BAV99 SOT-23	CHIP-DIODE	ON SEMI NXP DIODES
87	4	6	Pcs	D603 D604 D701 D702 D703 D704	MMSD4148T, SOD-123 1N4148W, SOD-123 1N4148W, SOD-123	CHIP-DIODE	ON SEMI DIODES RECTRON
88	4	1	Pcs	IC201	TLV431BSN1T1G, SOT-23, 1.24V±0.5% AZ431LANTR-E1, SOT-23, 1.24V±0.5%	IC-SMD	ONSEMI BCD
89	4	1	Pcs	IC202	KIA431BM, SOT-23, 2.5V±0.5% KA431SL, SOT-23, 2.5V±0.5% AS431AN, SOT-23, 2.5V±0.5%	IC-SMD	KEC FAIRCHILD BCD
90	4	1	Pcs	IC301	BD9270F, SOP-24	IC-SMD	ROHM
91	4	1	Pcs	IC600	SCY99102BDR2G, HS01G, SO-8	IC-SMD	ONSEMI
92	4	2	Pcs	LB602 LB604	RES FLAT 0J 1/4W(3216)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
93	4	2	Pcs	Q201 Q204	MMBT2222A, SOT-23 KTN2222AS, SOT-23 KST2222A, SOT-23	CHIP-TR	ONSEMI KEC FAIRCHILD
94	4	1	Pcs	Q203	FDD5614P TO-252 NTD20P06L TO-252	FET-SMD	FAIRCHILD ONSEMI
95	4	1	Pcs	Q502	KTC3551, SOT-23 BCW66GL, SOT-23	CHIP-TR	KEC ONSEMI
96	4	2	Pcs	Q603 Q604	MMBT2907A, SOT-23 KTN2907AS, SOT-23 KST2907A, SOT-23	CHIP-TR	ONSEMI KEC FAIRCHILD
97	4	8	Pcs	R201 R204 R226 R227 R228 R229 R233 R234	RES FLAT 22 J 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
98	4	2	Pcs	R203 R205	RES FLAT 51K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
99	4	1	Pcs	R206	RES FLAT 180 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
100	4	11	Pcs	R207 R224 R232 R309 R609 R621 R622 R711 R713 R724 R725	RES FLAT 10K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
101	4	1	Pcs	R208	RES FLAT 300 F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
102	4	1	Pcs	R209	RES FLAT 9.1K F 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

103	4	2	Pcs	R210 R212	RES FLAT, 2.2K, F, 1/8, 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
104	4	1	Pcs	R211	RES FLAT 180 F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
105	4	1	Pcs	R215	RES FLAT 1K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
106	4	1	Pcs	R216	RES FLAT 1.2K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
107	4	1	Pcs	R217	RES FLAT 330 J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
108	4	3	Pcs	R303 R305 R505	RES FLAT 1K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
109	4	1	Pcs	R219	RES FLAT 3.3K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
110	4	1	Pcs	R220	RES FLAT 820 F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
111	4	1	Pcs	R221	RES FLAT 430 F 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
112	4	2	Pcs	R222 R225	RES FLAT 47K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
113	4	2	Pcs	R223 R231	RES FLAT 470 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
114	4	5	Pcs	R230 R710 R712 R726 R727	RES FLAT 270 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
115	4	2	Pcs	R301	RES FLAT 27K J 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
116	4	2	Pcs	R603	RES FLAT 27K F 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
117	4	1	Pcs	R302	RES FLAT 51K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
118	4	4	Pcs	R304 R306 R314 R502	RES FLAT 100K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
119	4	1	Pcs	R344	RES FLAT 150K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
120	4	2	Pcs	R307 R608	RES FLAT 20K J 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
121	4	2	Pcs	R308 R323	RES FLAT 6.8K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

122	4	1	Pcs	R322	RES FLAT 5.1K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
123	4	1	Pcs	R310	RES FLAT 100K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
124	4	3	Pcs	R311 R312 R614	RES FLAT 2.2 J 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
125	4	1	Pcs	R313	RES FLAT 39K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
126	4	2	Pcs	R315 R316	RES FLAT 110K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
127	4	1	Pcs	R317	RES FLAT 75K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
128	4	1	Pcs	R318	RES FLAT 68K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
129	4	1	Pcs	R319	RES FLAT 10 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
130	4	1	Pcs	R324	RES FLAT 22K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
131	4	2	Pcs	R218 R327	RES FLAT 4.7K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
132	4	1	Pcs	R325	RES FLAT 5.1K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
133	4	1	Pcs	R326	RES FLAT, 470K, F, 1/8, 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
134	4	2	Pcs	R340 R510	RES FLAT 0 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
135	4	1	Pcs	R507	RES FLAT 2.7M J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
136	4	1	Pcs	R508	RES FLAT 2.2M F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
137	4	1	Pcs	R509	RES FLAT 820K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

138	4	11	Pcs	R513 R514 R515 R516 R517 R518 R610 R611 R612 R613 R616	RES FLAT 750K F 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
139	4	2	Pcs	R604 R606	RES FLAT 200 J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
140	4	2	Pcs	R605 R620	RES FLAT 30 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
141	4	1	Pcs	R615	RES FLAT 3.3K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
142	4	1	Pcs	R617	RES FLAT 240K F 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
143	4	1	Pcs	ZD205	MM3Z18VST1G 18V, SOD323 MMSZ5248BS, 18V, SOD323 BZT52C18S, 18V, SOD323 KDZ18V-RTK/P, SOD323	DIODE-ZENER-SMD	ON-SEMI RECTRON DIODES KEC
144	4	1	Pcs	ZD501	MM3Z6V8ST1G, SOD323 MMSZ5235BS, 6.8V, SOD323 BZT52C6V8S, 6.8V, SOD323 KDZ 6.8V-RTK/P, SOD323	DIODE-ZENER-SMD	ON-SEMI RECTRON DIODES KEC
145	5	3	Pcs	C201 C203 C209	EK R 3A 471K 07 FK5, 125℃, 1KV, P=5MM DG3AHR471K959, 125℃, 1KV, P=5MM CK3AYR471KFK, 125℃, 1KV, P=5MM CC81 1KV 471K 470PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
146	5	2	Pcs	C204 C205	NXB 1000uF 10V (10x16mm) SG 1000uF 10V (10x16mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
147	5	1	Pcs	C208	NXB 220uF 25V (8x11.5mm) SG 220uF 25V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
148	5	2	Pcs	C210 C220	KMG 50V 680uF (12.5x20mm) SK 50V 680uF (12.5x20mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
149	5	1	Pcs	C215	NXB 470UF 10V (8x11.5mm) SG 470uF 10V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
150	5	1	Pcs	C217	NXB 100uF 50V (8*11.5mm) SG 100uF 50V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
151	5	2	Pcs	C218 C219	NXB 35V 680M (10x20mm) SG 35V 680M (10x20mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
152	5	1	Pcs	C501	EK R 3A 102K 09 FK5, 125℃, 1KV, P=5MM DG3AHR102K959, 125℃, 1KV, P=5MM CK3AYR102KFK, 125℃, 1KV, P=5MM CC81 1KV 102K 1000PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
153	5	1	Pcs	C509	NXB 10uF 50V (5*11mm) SG 10uF 50V (5x11mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
154	5	1	Pcs	C510	NXB 22uF 50V (5*11mm) SG 22uF 50V (5x11mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
155	5	1	Pcs	C608	EK R 3A 221K 06 FK5, 125℃, 1KV, P=5MM DG3AHR221K959, 125℃, 1KV, P=5MM CK3AYR221KFK, 125℃, 1KV, P=5MM CC81 1KV 221K 220PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
156	5	2	Pcs	C706 C707	EK R 3A 101K 06 FK5, 125℃, 1KV, P=5MM DG3AHR101K959, 125℃, 1KV, P=5MM CK3AYR101KFK, 125℃, 1KV, P=5MM CC81 1KV 101K 100PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
157	5	3	Pcs	D501 D502 D504	DIODE FRD UF4007 1A 1000V 75ns DO-41 T&R UF4007,DO-41 HER108G,DO-41 UF1007,DO_41	DIODE	TSC Fairchild RECTRON Diodes
158	5	17	Pcs	EL1 EL10 EL11 EL12 EL13 EL15 EL17 EL37 EL4 EL40 EL5 EL51 EL52 EL6 EL7 EL8 EL9	EYE-LET DIA 2.3*3.1L	EYELET	DARIN LEZHI SAMSUNG JS DOSUNG
159	5	36	Pcs	EL14 EL16 EL21 EL22 EL23 EL24 EL26 EL27 EL28 EL29 EL30 EL31 EL32 EL33 EL34 EL35 EL36 EL38 EL39 EL41 EL42 EL43 EL44 EL45 EL46 EL47 EL48 EL49 EL50 EL53 EL55 EL57 EL58 EL63 EL64 EL71	EYELET DIA 1.6*3.0	EYELET	DARIN LEZHI SAMSUNG JS DOSUNG
160	5	6	Pcs	EL18 EL19 EL20 EL25 EL54 EL56	GRIPER DIA 1.6*2.6L	GRIPER	DARIN LEZHI SAMSUNG JS DOSUNG

161	5	53	Pcs	J1 J10 J103 J104 J105 J106 J12 J13 J14 J15 J16 J17 J18 J19 J20 J21 J22 J23 J24 J25 J27 J28 J29 J3 J30 J31 J32 J33 J34 J35 J36 J37 J38 J4 J40 J41 J43 J44 J45 J46 J47 J48 J49 J5 J50 J51 J52 J6 J8 J9 LB603 LB701 LB702	LEAD WIRE DΦ=0.6mm ROLL TYPE(UNIT:Kg)	JUMPER	Tianjin Hongyuan, ST TELECOM TPI DM TPC ILKWANG
162	5	5	Pcs	LB101 LB102 LB103 LB601 LB704	BFS3550R2F SER3550050BA	BEAD	SAMWHA SCC
163	5	1	Pcs	LB703	BFS3550A0L SEB3550050BA	BEAD	SAMWHA SCC
164	5	4	Pcs	P601 P602 P603 P604	PIN 5.5 * Φ2.3 (right angle in the edge)	GT PIN	ST TELECOM LEZHI SAMSUNG JS DOSUNG
165	5	1	Pcs	R100	MSR37 1/2W 1M ohm J Surge PRC 1M J 1/2W Surge	RESISTOR-SURGE	PILKOR SMART
166	5	1	Pcs	R202	MORS 1N 22 ohm J RSD 1W 22 ohm J PR01 1W 22R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
167	5	1	Pcs	R214	MORS 2W 820 ohm J TC, MINI RSD 2W 820Ω J TA63 PR02 2W 820R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
168	5	2	Pcs	R403 R406	MORS 2W 12R ohm F TC RSD 12Ω F 2W TA63 PR02 2W 12R ohm F	RESISTOR-M/O	ABCO SMART PILKOR
169	5	1	Pcs	R501	MORS 2W 100K ohm J RSD 2W 100KΩ J TA63 PR02 2W 100K ohm J	RESISTOR-M/O	ABCO SMART PILKOR
170	5	1	Pcs	R503	WNPS 1N 0.43 ohm J PRN 1W 0.43 ohm J WWR 1N 0.43 ohm J	RESISTOR-W/W	ABCO SMART PILKOR
171	5	1	Pcs	R504	CRS 1/2W 22R ohm J TC RDM 22Ω J 1/2W SFR25H 1/2W 22R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
172	5	1	Pcs	R512	CRS 1/2W 2.2R ohm J TC RDM 2.2Ω J 1/2W SFR25H 1/2W 2R2 ohm J	RESISTOR-M/O	ABCO SMART PILKOR
173	5	1	Pcs	R519	CR 1/4W 1M ohm J TC RD 1MΩ J 1/4W SFR25 1/4W 1M ohm J	RESISTOR-M/O	ABCO SMART PILKOR
174	5	2	Pcs	R601 R602	WNPS 2N 0.1 ohm J PRN 2W 0.1 ohm J WWR 2N 0.1ohm J	RESISTOR-W/W	ABCO SMART PILKOR
175	5	1	Pcs	VR301	NVZ6TLTA 10kΩ RES VARIABLE EVM-AASA01B14 10K 1/10W	RESISTOR-VR	HOKURIKU PANASONIC
176	5	2	Pcs	ZD502 ZD504	1N5246B, 16V, DO-35 MTZJ16B, DO-34 1N5246, 16V, DO-35	DIODE-ZENER	VISHAY ROHM RECTRON
177	5	1	Pcs	ZD503	1N5232B, 5.6V, DO-35 MTZJ5.6B, DO-34 1N5232, 5.6V, DO-35	DIODE-ZENER	VISHAY ROHM RECTRON
178	6	1	Pcs		LGP323742-10L, (196x246),FR-1 1oz 1.6t (REV 1.3) [DS:DS-1108, KB: KB-3152, CC:CCP-6440(SM)]	PCB	HUIHO HSIANG KUO SAMHAN DAEDUCK GDS (TIANJIN DAEDUCK) CHIN POON WEIJUN

LGP42-10LC(EAY60869405)

No.	LEVEL	Q'TY	Unit	Location	Specification	Description	Maker
1	1	2	g		EF-9301(g) EC-19S-8 CS-9111LF-LGIT	FLUX	ALPHA METALS 동화다무라 철술
2	1	0.018	kg		HSE-11 B20 BAR(SN:99.7%, AG:0.3%, CU:0.7%)	SOLDER BAR	서브원 HEESUNG METAL
3	1	0.0012	kg		HSE-11 B20 WIRE(SN:99%, AG:0.3%, CU:0.7%)	SOLDER WIRE	서브원 HEESUNG METAL
4	1	0.025	ml		HT-130A-106	BOND-SMD	HI-TECH KOREA
5	1	0.05	ml		H-828W OKE-410 (FOR AUTO DISPENSER) TSE3854D EA-4100 DS-818	SILICON	OKONG OKONG GE TOSHIBA DOW CORNING DONGYANG
6	1	1	Pcs		BUBBLE SHEET (220W*720L 4+/- 1.5H)	BUBBLE SHEET	서브원 JAEIL A-TEK
7	1	1	Pcs		LABEL FOR BOARD (40*8)	LABEL	서브원 JAEIL
8	1	0.0625	Pcs		LABEL FOR BOX	LABEL-BOX	서브원 JAEIL
9	1	0.0031	Pcs		TAPE 50*50K	TAPE	서브원 JAEIL
10	1	0.0625	Pcs		BOX(196W*246L*22H)	BOX	서브원 JAEIL HUAXING PACKING TAILI PACKING
11	1	0.125	Pcs		Tray Board (470*373)	BOX_PAD	서브원 JAEIL HUAXING PACKING TAILI PACKING
12	1	0.1875	Pcs		Cross Board A (472*250)	PARTITION-A	서브원 JAEIL HUAXING PACKING TAILI PACKING
13	1	0.125	Pcs		Cross Board B (375*250)	PARTITION-B	서브원 JAEIL HUAXING PACKING TAILI PACKING
14	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
15	4	1	Pcs	HS1	HEAT SINK, 96*15*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
16	4	1	Pcs	BD101	DIODE BRIDGE D10XB60 DIODE BRIDGE RS1005M DIODE BRIDGE TS10B05G	DIODE-BRIDGE	SHINDENGEN RECTRON TSC
17	4	1	Pcs	FOR BD101	SEMS 3*12 SCREW, SPRING WASHER BHM Screw, M3.0 *9.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
18	4	0.00001	kg	FOR BD101	HC300	SILICON GLEASE	서브원 A-TEK
19	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
20	4	1	Pcs	HS2	HEAT SINK, 72*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
21	4	1	Pcs	IC501	STR-W6053N	IC	SANKEN
22	4	1	Pcs	FOR IC501	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
23	4	0.00001	kg	FOR IC501	HC300	SILICON GLEASE	서브원 A-TEK
24	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
25	4	1	Pcs	HS3	HEAT SINK, 84*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
26	4	2	Pcs	Q601 Q602	STF13NM60N SD14N60 TK13A60D	FET	ST INFINEON TOSHIBA
27	4	1	Pcs	D601	STTH10LCD06FP BYV29FX-600	DIODE	ST NXP
28	4	3	Pcs	FOR Q601, Q602, D601	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
29	4	0.00003	kg	FOR Q601, Q602, D601	HC300	SILICON GLEASE	서브원 A-TEK
30	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
31	4	1	Pcs	HS4	HEAT SINK, 72*25*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
32	4	2	Pcs	D201 D203	DIODE MBRF10150CT 10A 150V, TO-220FP DIODE MBRF10U150CT 10A 150V, TO-220FP DIODE FME-210B 10A 150V, TO-220FP	DIODE	SENSITRON KEC SANKEN
33	4	1	Pcs	D204	DIODE MBRF10200CT 10A 200V, TO-220FP DIODE MBRF10U200CT 10A 200V, TO-220FP DIODE FMX-22S 10A 200V, TO-220FP	DIODE	SENSITRON KEC SANKEN

34	4	1	Pcs	Q202	AP9972GI FQPF30N06L STP36NF06FP TK30A06J3A	FET	APEC FAIRCHILD STM TOSHIBA
35	4	4	Pcs	FOR D201, D203, D204, Q202	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
36	4	0.00004	kg	FOR D201, D203, D204, Q202	HC300	SILICON GLEASE	서브원 A-TEK
37	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
38	4	1	Pcs	HS5	HEAT SINK Extruded Al6063 28.75L*11.5W*20H	HEATSINK	YUWON NRT HUAPENG GUO TAI
39	4	1	Pcs	D202	DIODE MBRF2060CT 20A 60V, TO-220FP DIODE MBRF2060CTL 20A 60V, TO-220FP DIODE MBRF20U65CT 20A 65V, TO-220FP DIODE FMW-2206 20A 60V, TO-220FP	DIODE	SENSITRON SENSITRON KEC SANKEN
40	4	1	Pcs	FOR D202	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
41	4	0.00001	kg	FOR D202	HC300	SILICON GLEASE	서브원 A-TEK
42	3	1	Pcs		HEAT SINK Ass'y	HEATSINK ASS'Y	
43	4	1	Pcs	HS6	HEAT SINK, 72*20*18.3(H)	HEATSINK	YUWON NRT HUAPENG GUO TAI
44	4	4	Pcs	Q707 Q708 Q709 Q710	2SK3868 FDPF5N50NZFT KF5N50FS	FET	TOSHIBA FAIRCHILD KEC
45	4	4	Pcs	FOR Q707 Q708 Q709 Q710	SEMS 3*10 SCREW, SPRING WASHER BHM Screw, M3.0 *8.0L, with Clamfix, Cr3+WH Plating	SCREW	SEOUL METAL ASEA BOLT SUNGHO METAL
46	4	0.00004	kg	FOR Q707 Q708 Q709 Q710	HC300	SILICON GLEASE	서브원 A-TEK
47	3	1	Pcs	C401	EC 10pF J 6.3KV SL (10mm) DM3JSL100J617 (10mm) CC 3J SL 100J (10mm) CC81 LY 10D (10mm)	High CAPACITOR	SAMWHA APEX 동일전자 YINANDON
48	3	1	Pcs	C402	EC 54pF J 6.3KV SL (10mm) DM3JSL540J617 (10mm) CC 3J SL 54J (10mm) CC81 LY 54J (10mm)	High CAPACITOR	SAMWHA APEX 동일전자 YINANDON
49	3	2	Pcs	C600 C719	MPP 500V 824J 15F (15mm) PCMP 372FL3824 500V 824J(15mm)	CAPACITOR-M/F	SUNGHO PILKOR
50	3	2	Pcs	C611 C612	KMF 450V 82uF LB(18x31.5mm) SK 450V 82uF LR (18x32mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
51	3	1	Pcs	CX101	M.P.P PCX2 337 0.22uF K 100℃ AC275V P=15mm	CAPACITOR-X	PILKOR
52	3	1	Pcs	CX102	M.P.P PCX2 337 0.47uF K 100℃ AC275V P=15mm	CAPACITOR-X	PILKOR
53	3	5	Pcs	CY101 CY102 CY103 CY104 CY105	SD B 2G 471K 08 BW,Y1, 105℃, P=10mm DA2GYB471KK617(G), 105℃, P=10mm DA2GYB471KBKC04, 105℃, P=10mm CT81 471K 400V/AC, 105℃, P=10mm	CAPACITOR-Y	SAMWHA APEX 동일전자 YINANDON
54	3	1	Pcs	CY106	SD B 2G 331K 08 BW,Y1, 105℃, P=10mm DA2GYB331KK617(G), 105℃, P=10mm DA2GYB331KBKC04, 105℃, P=10mm CT81 331K 400V/AC, 105℃, P=10mm	CAPACITOR-Y	SAMWHA APEX 동일전자 YINANDON
55	3	2	Pcs	D600 D606	S3V60, 20mm 1N5408, 20mm 1N5408, 20mm 30PDA60, 20mm	DIODE	SHINDENGEN RECTRON TSC NI
56	3	1	Pcs	F100	T5A H 250V, 215, LEAD RED T5A H 250V, 50CT, LEAD RED	FUSE	LITTEL FUSE DAIN
57	3	1	Pcs	F501	F3.15A H 250V, 216, LEAD VIOLET F3.15A H 250V, 50CF, LEAD VIOLET	FUSE	LITTEL FUSE DAIN
58	3	2	Pcs	IC502 IC503	EL817M(DT) B TYPE(10mm) LTV817M-BN TYPE(10mm)	PHOTO COUPLER	EVERLIGHT LITEON
59	3	1	Pcs	L202	LB-001, 0.6uH(9*15), P6mm	CHOKE-BAR	NAMYANG CLOVER SOOJUNG LIENCHANG
60	3	1	Pcs	L600	LLP-101 EER3618, 220uH	PFC CHOKE	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
61	3	1	Pcs	LF101	LLF-102, SQE2828 9mH	LINE FILTER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG

62	3	2	Pcs	LF102 LF103	LLF-104, CH935230 23mH	LINE FILTER	CLOVER SOOJUNG KYOUNGIN FEELUX LIENCHANG TNC DONGIL TECH
63	3	1	Pcs	P201	SMW200-24CF(B) FW20020-24SB	CONNECTOR	YEONHO FOOSUNG
64	3	1	Pcs	P401	35002WR-02L(BK), Black, LOCKING TYPE	CONNECTOR	YEONHO
65	3	1	Pcs	P402	35002WR-02L(P), White, LOCKING TYPE	CONNECTOR	YEONHO
66	3	3	Pcs	PG102 PG103 PG104	Rug GND, SPCC 0.4t, CuSn Plating, 16.15L*7.4W*3.6H	GROUND PLATE	ST TELECOM LEZHI SAMSUNG JS DOSUNG
67	3	1	Pcs	R235	MPR 5W 0.05 ohm J MPR 5W 0.05 ohm J	RESISTOR-CEMENT	SMART ABCO
68	3	1	Pcs	SK101	DAC-11PM1 ST-A01-002LT	INLET	DONGIL TECH BEJ
69	3	1	Pcs	T501	LPM-100, EFD3634H, 1mH	TRANSFORMER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
70	3	2	Pcs	T701 T702	LIP-001	TRANSFORMER	CLOVER NAMYANG SOOJUNG KYOUNGIN FEELUX LIENCHANG
71	3	2	Pcs	T703 T704	LIF42-102C, UU1654	TRANSFORMER	CLOVER NAMYANG KYOUNGIN FEELUX LIENCHANG
72	3	2	Pcs	TH600 TH601	MF72-2.5D15 DSC2.5D15	THERMISTOR	NSE DSC
73	3	1	Pcs	VA100	INR14D621K(7.5mm),073C (BLACK TUBE) SVC621D-14A,073C (BLACK TUBE)	VARISTOR	AMOTECH SAMHWA
74	4	11	Pcs	C207 C213 C230 C303 C305 C312 C324 C502 C513 C601 C606	CAP FLAT 100NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
75	4	1	Pcs	C212	CAP FLAT 0.33UF K 50V X7R 2012	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
76	4	1	Pcs	C216	CAP FLAT 1UF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
77	4	2	Pcs	C302 C310	CAP FLAT 10NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
78	4	8	Pcs	C304 C314 C315 C318 C603 C607 C712 C713	CAP FLAT 1NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
79	4	5	Pcs	C221 C308 C313 C710 C711	CAP FLAT 1UF K 25V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
80	4	2	Pcs	C309 C602	CAP FLAT 47NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
81	4	1	Pcs	C403	CAP FLAT 56NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO

82	4	2	Pcs	C311 C505	CAP FLAT 4.7NF K 50V X7R(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
83	4	1	Pcs	C317	CAP FLAT 0.47UF K 25V X7R 2012	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
84	4	1	Pcs	C404	CAP FLAT 27NF K 50V X7R 2012 T&R	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
85	4	1	Pcs	C405	CAP FLAT 6.8NF K 50V X7R 2012 T&R	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
86	4	1	Pcs	C406	CAP FLAT 6.8NF K 50V X7R 2012 T&R	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
87	4	1	Pcs	C604	CAP FLAT 100PF J 50V CG(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
88	4	1	Pcs	C605	CAP FLAT 22PF J 50V CG(2012)	CAPACITOR-SMD	PILKOR SAMSUNG TDK MURATA TAIYOYUDEN YAGEO
89	4	4	Pcs	D401 D402 D403 D404	BAV99 SOT-23	CHIP-DIODE	ON SEMI NXP DIODES
90	4	6	Pcs	D603 D604 D701 D702 D703 D704	MMSD4148T, SOD-123 1N4148W, SOD-123 1N4148W, SOD-123	CHIP-DIODE	ON SEMI DIODES RECTRON
91	4	1	Pcs	IC201	TLV431BSN1T1G, SOT-23, 1.24V±0.5% AZ431LANTR-E1, SOT-23, 1.24V±0.5%	IC-SMD	ONSEMI BCD
92	4	1	Pcs	IC202	KIA431BM, SOT-23, 2.5V±0.5% KA431SL, SOT-23, 2.5V±0.5% AS431AN, SOT-23, 2.5V±0.5%	IC-SMD	KEC FAIRCHILD BCD
93	4	1	Pcs	IC301	BD9270F, SOP-24	IC-SMD	ROHM
94	4	1	Pcs	IC600	SCY99102BDR2G, HS01G, SO-8	IC-SMD	ONSEMI
95	4	2	Pcs	LB602 LB604	RES FLAT 0J 1/4W(3216)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
96	4	2	Pcs	Q201 Q204	MMBT2222A, SOT-23 KTN2222AS, SOT-23 KST2222A, SOT-23	CHIP-TR	ONSEMI KEC FAIRCHILD
97	4	1	Pcs	Q203	FDD5614P TO-252 NTD20P06L TO-252	FET-SMD	FAIRCHILD ONSEMI
98	4	1	Pcs	Q502	KTC3551, SOT-23 BCW66GL, SOT-23	CHIP-TR	KEC ONSEMI
99	4	2	Pcs	Q603 Q604	MMBT2907A, SOT-23 KTN2907AS, SOT-23 KST2907A, SOT-23	CHIP-TR	ONSEMI KEC FAIRCHILD
100	4	8	Pcs	R201 R204 R226 R227 R228 R229 R233 R234	RES FLAT 22 J 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
101	4	2	Pcs	R203 R205	RES FLAT 51K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
102	4	1	Pcs	R206	RES FLAT 180 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
103	4	11	Pcs	R207 R224 R232 R309 R609 R621 R622 R711 R713 R724 R725	RES FLAT 10K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
104	4	1	Pcs	R327	RES FLAT 12K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
105	4	1	Pcs	R208	RES FLAT 300 F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

106	4	1	Pcs	R209	RES FLAT 9.1K F 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
107	4	2	Pcs	R210 R212	RES FLAT, 2.2K, F, 1/8, 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
108	4	1	Pcs	R211	RES FLAT 180 F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
109	4	1	Pcs	R215	RES FLAT 1K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
110	4	1	Pcs	R216	RES FLAT 1.2K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
111	4	1	Pcs	R217	RES FLAT 330 J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
112	4	3	Pcs	R303 R305 R505	RES FLAT 1K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
113	4	1	Pcs	R219	RES FLAT 3.3K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
114	4	1	Pcs	R220	RES FLAT 820 F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
115	4	1	Pcs	R221	RES FLAT 430 F 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
116	4	2	Pcs	R222 R225	RES FLAT 47K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
117	4	2	Pcs	R223 R231	RES FLAT 470 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
118	4	5	Pcs	R230 R710 R712 R726 R727	RES FLAT 270 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
119	4	2	Pcs	R301	RES FLAT 27K J 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
120	4	2	Pcs	R603	RES FLAT 27K F 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
121	4	1	Pcs	R302	RES FLAT 51K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
122	4	3	Pcs	R304 R314 R502	RES FLAT 100K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
123	4	1	Pcs	R306	RES FLAT 200K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
124	4	1	Pcs	R344	RES FLAT 150K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
125	4	2	Pcs	R307 R608	RES FLAT 20K J 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

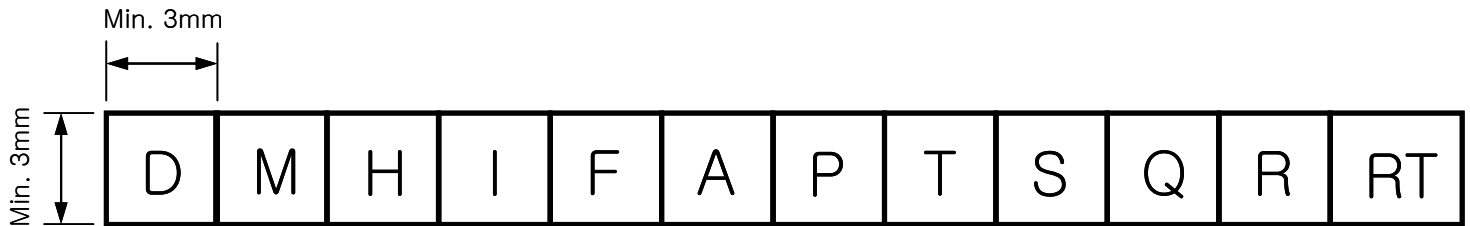
126	4	1	Pcs	R308	RES FLAT 7.5K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
127	4	1	Pcs	R322	RES FLAT 6.2K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
128	4	1	Pcs	R323	RES FLAT 10K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
129	4	1	Pcs	R310	RES FLAT 100K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
130	4	3	Pcs	R311 R312 R614	RES FLAT 2.2 J 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
131	4	1	Pcs	R313	RES FLAT 39K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
132	4	2	Pcs	R315 R316	RES FLAT 110K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
133	4	1	Pcs	R317	RES FLAT 75K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
134	4	1	Pcs	R318	RES FLAT 68K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
135	4	1	Pcs	R319	RES FLAT 10 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
136	4	1	Pcs	R324	RES FLAT 22K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
137	4	1	Pcs	R218	RES FLAT 4.7K J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
138	4	1	Pcs	R325	RES FLAT 20K J 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
139	4	1	Pcs	R326	RES FLAT , 470K, F, 1/8, 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
140	4	2	Pcs	R340 R510	RES FLAT 0 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
141	4	1	Pcs	R507	RES FLAT 2.7M J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
142	4	1	Pcs	R508	RES FLAT 2.2M F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
143	4	1	Pcs	R509	RES FLAT 820K F 1/8W 2012	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM

144	4	11	Pcs	R513 R514 R515 R516 R517 R518 R610 R611 R612 R613 R616	RES FLAT 750K F 1/8W 2012 T&R	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
145	4	2	Pcs	R604 R606	RES FLAT 200 J 1/8W(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
146	4	2	Pcs	R605 R620	RES FLAT 30 J 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
147	4	1	Pcs	R615	RES FLAT 3.3K F 1/8(2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
148	4	1	Pcs	R617	RES FLAT 240K F 1/8 (2012)	RESISTOR-SMD	YAGEO KAMAYA PILKOR SAMSUNG ROHM
149	4	1	Pcs	ZD205	MM3Z18VST1G 18V, SOD323 MMSZ5248BS, 18V, SOD323 BZT52C18S, 18V, SOD323 KDZ18V-RTK/P, SOD323	DIODE-ZENER-SMD	ON-SEMI RECTRON DIODES KEC
150	4	1	Pcs	ZD501	MM3Z6V8ST1G, SOD323 MMSZ5235BS, 6.8V, SOD323 BZT52C6V8S, 6.8V, SOD323 KDZ 6.8V-RTK/P, SOD323	DIODE-ZENER-SMD	ON-SEMI RECTRON DIODES KEC
151	5	3	Pcs	C201 C203 C209	EK R 3A 471K 07 FK5, 125℃, 1KV, P=5MM DG3AHR471K959, 125℃, 1KV, P=5MM CK3AYR471KFK, 125℃, 1KV, P=5MM CC81 1KV 471K 470PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
152	5	2	Pcs	C204 C205	NXB 1000uF 10V (10x16mm) SG 1000uF 10V (10x16mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
153	5	1	Pcs	C208	NXB 220uF 25V (8x11.5mm) SG 220uF 25V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
154	5	2	Pcs	C210 C220	KMG 50V 680uF (12.5x20mm) SK 50V 680uF (12.5x20mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
155	5	1	Pcs	C215	NXB 470UF 10V (8x11.5mm) SG 470uF 10V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
156	5	1	Pcs	C217	NXB 100uF 50V (8*11.5mm) SG 100uF 50V (8x12mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
157	5	2	Pcs	C218 C219	NXB 35V 680M (10x20mm) SG 35V 680M (10x20mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
158	5	1	Pcs	C501	EK R 3A 102K 09 FK5, 125℃, 1KV, P=5MM DG3AHR102K959, 125℃, 1KV, P=5MM CK3AYR102KFK, 125℃, 1KV, P=5MM CC81 1KV 102K 1000PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
159	5	1	Pcs	C509	NXB 10uF 50V (5*11mm) SG 10uF 50V (5x11mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
160	5	1	Pcs	C510	NXB 22uF 50V (5*11mm) SG 22uF 50V (5x11mm)	CAPACITOR-ELEC	SAMYOUNG SUSCON
161	5	1	Pcs	C608	EK R 3A 221K 06 FK5, 125℃, 1KV, P=5MM DG3AHR221K959, 125℃, 1KV, P=5MM CK3AYR221KFK, 125℃, 1KV, P=5MM CC81 1KV 221K 220PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
162	5	2	Pcs	C706 C707	EK R 3A 101K 06 FK5, 125℃, 1KV, P=5MM DG3AHR101K959, 125℃, 1KV, P=5MM CK3AYR101KFK, 125℃, 1KV, P=5MM CC81 1KV 101K 100PF, 125℃, 1KV, P=5MM	CAPACITOR-CER	SAMWHA APEX 동일전자 YINANDON
163	5	3	Pcs	D501 D502 D504	DIODE FRD UF4007 1A 1000V 75ns DO-41 T&R UF4007,DO-41 HER108G,DO-41 UF1007,DO 41	DIODE	TSC Fairchild RECTRON Diodes
164	5	17	Pcs	EL1 EL10 EL11 EL12 EL13 EL15 EL17 EL37 EL4 EL40 EL5 EL51 EL52 EL6 EL7 EL8 EL9	EYE-LET DIA 2.3*.3.1L	EYELET	DARIN LEZHI SAMSUNG JS DOSUNG
165	5	36	Pcs	EL14 EL16 EL21 EL22 EL23 EL24 EL26 EL27 EL28 EL29 EL30 EL31 EL32 EL33 EL34 EL35 EL36 EL38 EL39 EL41 EL42 EL43 EL44 EL45 EL46 EL47 EL48 EL49 EL50 EL53 EL55 EL57 EL58 EL63 EL64 EL72	EYELET DIA 1.6*3.0	EYELET	DARIN LEZHI SAMSUNG JS DOSUNG
166	5	6	Pcs	EL18 EL19 EL20 EL25 EL54 EL56	GRIPER DIA 1.6*2.6L	GRIPER	DARIN LEZHI SAMSUNG JS DOSUNG
167	5	53	Pcs	J1 J10 J103 J104 J105 J106 J12 J13 J14 J15 J16 J17 J18 J19 J20 J21 J22 J23 J24 J25 J27 J28 J29 J3 J30 J31 J32 J33 J34 J35 J36 J37 J38 J4 J40 J41 J43 J44 J45 J46 J47 J48 J49 J5 J50 J51 J52 J6 J8 J9 LB603 LB701 LB702	LEAD WIRE DΦ=0.6mm ROLL TYPE(UNIT:Pcs)	JUMPER	Tianjin Hongyuan, ST TELECOM TPI DM TPC ILKWANG

168	5	5	Pcs	LB101 LB102 LB103 LB601 LB704	BFS3550R2F SER3550050BA	BEAD	SAMWHA SCC
169	5	1	Pcs	LB703	BFS3550A0L SEB3550050BA	BEAD	SAMWHA SCC
170	5	4	Pcs	P601 P602 P603 P604	PIN 5.5 * Φ 2.3 (right angle in the edge)	GT PIN	ST TELECOM LEZHI SAMSUNG JS DOSUNG
171	5	1	Pcs	R100	MSR37 1/2W 1M ohm J Surge PRC 1M J 1/2W Surge	RESISTOR-SURGE	PILKOR SMART
172	5	1	Pcs	R202	MORS 1N 22 ohm J RSD 1W 22 ohm J PR01 1W 22R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
173	5	1	Pcs	R214	MORS 2W 820 ohm J TC, MINI RSD 2W 820 Ω J TA63 PR02 2W 820R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
174	5	2	Pcs	R403 R406	MORS 2W 12R ohm F TC RSD 12 Ω F 2W TA63 PR02 2W 12R ohm F	RESISTOR-M/O	ABCO SMART PILKOR
175	5	1	Pcs	R501	MORS 2W 100K ohm J RSD 2W 100K Ω J TA63 PR02 2W 100K ohm J	RESISTOR-M/O	ABCO SMART PILKOR
176	5	1	Pcs	R503	WNPS 1N 0.43 ohm J PRN 1W 0.43 ohm J WWR 1N 0.43 ohm J	RESISTOR-W/W	ABCO SMART PILKOR
177	5	1	Pcs	R504	CRS 1/2W 22R ohm J TC RDM 22 Ω J 1/2W SFR25H 1/2W 22R ohm J	RESISTOR-M/O	ABCO SMART PILKOR
178	5	1	Pcs	R512	CRS 1/2W 2.2R ohm J TC RDM 2.2 Ω J 1/2W SFR25H 1/2W 2R2 ohm J	RESISTOR-M/O	ABCO SMART PILKOR
179	5	1	Pcs	R519	CR 1/4W 1M ohm J TC RD 1M Ω J 1/4W SFR25 1/4W 1M ohm J	RESISTOR-M/O	ABCO SMART PILKOR
180	5	2	Pcs	R601 R602	WNPS 2N 0.1 ohm J PRN 2W 0.1 ohm J WWR 2N 0.1ohm J	RESISTOR-W/W	ABCO SMART PILKOR
181	5	1	Pcs	VR301	NVZ6TLTA 10k Ω RES VARIABLE EVM-AASA01B14 10K 1/10W	RESISTOR-VR	HOKURIKU PANASONIC
182	5	2	Pcs	ZD502 ZD504	1N5246B, 16V, DO-35 MTZJ16B, DO-34 1N5246, 16V, DO-35	DIODE-ZENER	VISHAY ROHM RECTRON
183	5	1	Pcs	ZD503	1N5232B, 5.6V, DO-35 MTZJ5.6B, DO-34 1N5232, 5.6V, DO-35	DIODE-ZENER	VISHAY ROHM RECTRON
184	6	1	Pcs		LGP323742-10L, (196x246),FR-1 1oz 1.6t (REV 1.3) [DS:DS-1108, KB: KB-3152, CC:CCP-6440(SM)]	PCB	HUIHO HSIANG KUO SAMHAN DAEDUCK GDS (TIANJIN DAEDUCK) CHIN POON WEIJUN

Process Marking

공정 표시 MARK (PCB SILK)



- ▶ **D** : AUTO INSERT
- ▶ **M** : SMD
- ▶ **H** : HAND INSERT
- ▶ **I** : ICT CHECK
- ▶ **F** : FUNCTION CHECK
- ▶ **A** : AGING
- ▶ **P** : HI-POT CHECK
- ▶ **T** : FINAL CHECK
- ▶ **S** : SET JIG CHECK
- ▶ **Q** : QA INSPECTION
- ▶ **R** : REPAIR
- ▶ **RT** : RELIABILITY TEST

PCB Layout

PCB: EAX61124201/16

REV 1.3

2010.09.13

UL E247691

Above UL reference markings are for only recognized power supply model of LG

LGIT

YY	HE	LC	NS
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CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

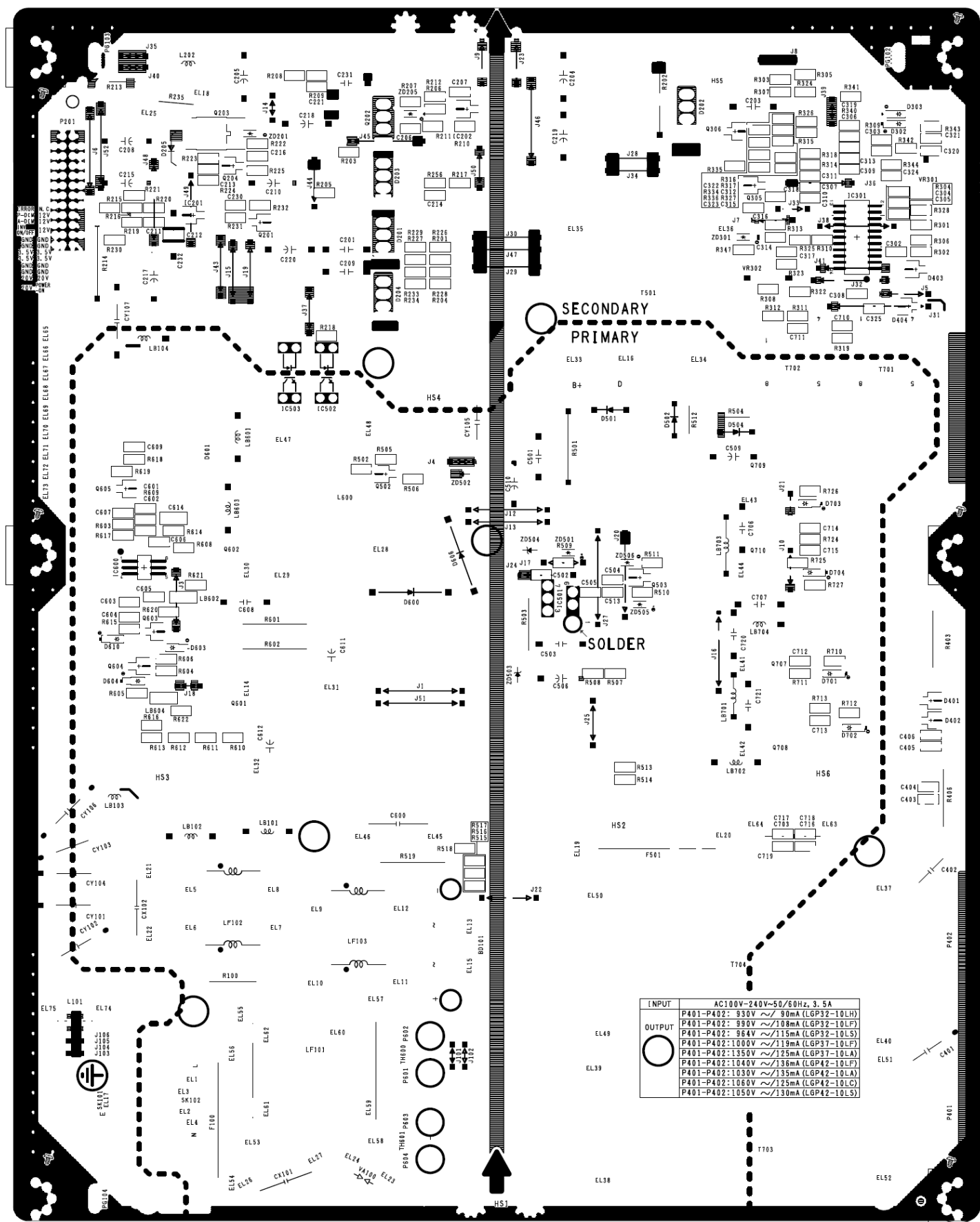
Caution High Voltage

BAR CODE

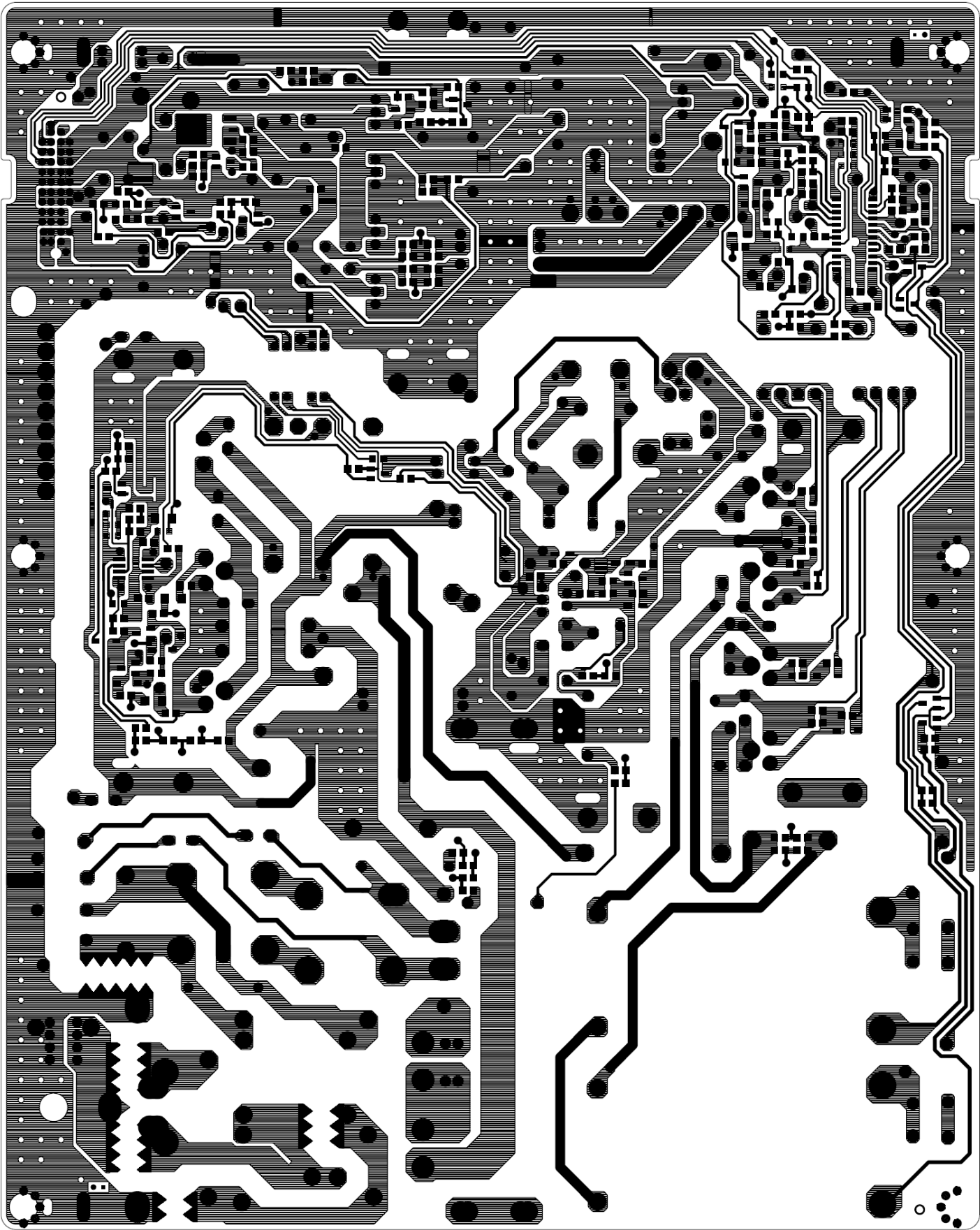
D M H I F A P T S Q R R T

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE ONLY WITH SAME TYPE AND RATING OF FUSE.

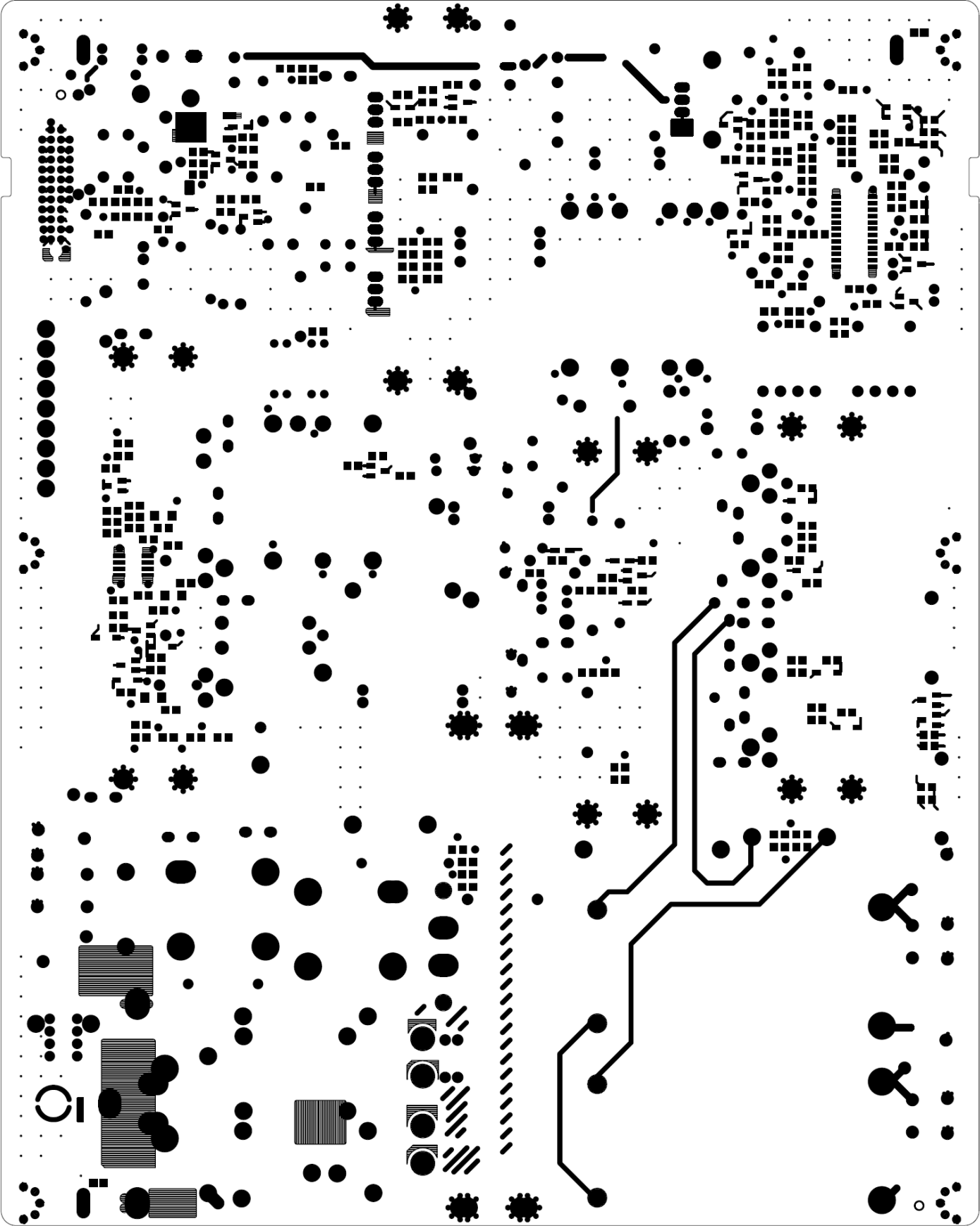
Bottom Silk



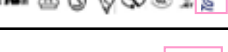
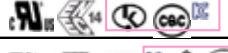
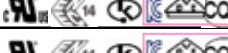
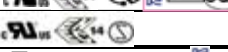
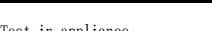
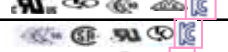
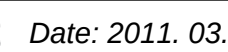
Bottom Pattern

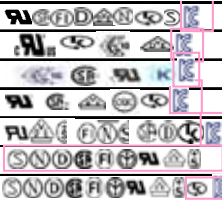
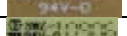
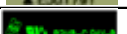
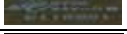
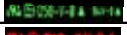
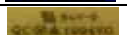
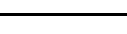


Bottom Solder Mask



Safety Parts (VER 1.0 / 091207)

Object/part No.	Manufacturer / Trademark	Type / Model	Value / Rating	부품 Marking (실물)	standard	mark(s) of conformity1)
AC input connector, (SK101)	Dongil Tech	DAC-11PM1	250V / 10A	DAC-11PM1	IEC320	
	zhejiangbeierjia	ST-A01-002LT	250V / 10A	ST-A01-002LT	IEC320	
AC input connector, (SK102) - Optional	Yeon Ho	YW396 Series	250V / 7.5A		IEC 60065	
Fuse, (F100)	Littelfuse Ltd.	215 Series	T5A H / 250V	LF.T5AH250VP	IEC 60127-1	
	WALTER FUSE	TSC		TSC5A250V(P)	IEC 60127	
	Dainfuse	50CT		T5AH250V	IEC 60127	
Fuse, (F501)	Littelfuse Ltd.	216.XXXX	F3.15A H / 250V	LF.F3.15AH250VP	IEC 60127-1	
	WALTER FUSE	FSC		FSC3.15A250V(P)	IEC 60127	
	Dainfuse	50CF		F3.15AH250V	IEC 60127	
Line Filter, (LF101)	SOOJUNG KYUNGJIN Clover Hi TECH NAMYANG FEELUX LIENCHANG	LLF-102	Rated 130℃	LLF-102	IEC 60065	Test in appliance
Line Filter, (LF102,LF103)	SOOJUNG KYUNGJIN Clover Hi TECH TNC Feelux Lienchang Dongil Tech	LLF-104	Rated 130 ℃	LLF-104	IEC 60065	Test in appliance
Varistor, (VA100)	Samwha	SVC621D-14	620V,Min.	SVC621-14	IEC61051-2	
	Amotech Co., Ltd.	INR 14D621		INR 14D621		
	Thinking Industrial Co. Ltd.	TVR14621		TVR14621		
	HUAXING	MYG20G14K621 87-CS		14K621		
Bridge Diode, (BD101)	Rectron	RS1005M	Min. 600V / 10A	RS1005M	E94233	Test in appliance
	TSC	TS10B05G		TS10B05G	E96005	
	SHINDENGEN	D10XB60		D10XB60	E142422	
X-cap.(CX101,CX102)	Pilkor	PCX2 337	275V (CX101= Max 0.22uF, CX102= Max 0.47uF)	PCX2 337	IEC 60384-14 UL1414	
	SUN-IL	436D		436D	E199061/ E311052 IEC 60384-14-2'nd edition	
	Eurotronic	NPX		MPX	IEC 60384-14 UL 1414	
	OKAYA	LE		LE	IEC 60384-14 UL 1414	
Thermistor.(TH600,TH601)	DSC	DSC-2.5D-15	2.5ohm at 25 ℃	DSC 2.5D-15	IEC 60065	
	Thinking Industrial Co. Ltd.	SCR 2R58		SCR 2R58		
	NANJING SHIHENG ELECTRONICS CO., LTD	MF72-2.5D15		MF72-2.5D15		
Elec.Cap., (C611, C612)	SAMYOUNG	KMF	450V / Max 82uF / 105℃	KMF450V82uF	IEC 60950-1	Test in appliance
	SUSCON	SK		SK450V82uF		
	SAMWHA	LT		LT450V82uF		
Switching TR, (Q601,Q602)	STMICRO	STF13NM60N	Min. 600V / Min 11A	I3NM60N	IEC 60950-1	Test in appliance
	INFINEON	SD14N60		SD14N60		
	TOSHIBA	TK12A60D		K12A60D		
	TOSHIBA	TK13A60D		K13A60D		
	POWER DEVICES	PFF13N60		PFF13N60		
Flyback IC, (IC501)	SANKEN	STR-W6053N	Min. 650 V / Min 9.5A	STR-W6053N	IEC 60950-1	Test in appliance
Switching TR, (Q707,Q708,Q709,Q710)	FAIRCHILD	FDPF5N50NZFT	Min. 500V/ Min 4.0A	FDPF5N50NZFT	IEC 60950-1	Test in appliance
	KEC	KF5N50FS		KF5N50		
	STMICRO	STF5N52U		F5N52U		
	TOSHIBA	2SK3868		K3868		
	POWER DEVICES	PFF5N50		PFF5N50		
Y Cap., Optional (CY101,CY102,CY103,CY104)	Samwha	SD	Min 250V / Max 470pF	SD471K	IEC 60384-14	
	Apex intec	NK		NK471K		
	DONG IL	DA		DA471k		
	YINANDON	CT81		CT81 471K		
	HONGMING	DCF		DCF471k		
	MURATA	KX		KX471K		
	TDK	CD		CD471K		

Bridging Cap., Optional (CY106)	Samvha	SD	Min 250V / Max 330pF	SD331K	IEC 60384-14	
	Apex intec	NK		NK331K		
	DONG IL	DA		DA331k		
	YINANDON	CT81		CT81 331K		
	GUANGDONG SOUTH HONGMING	F		F331k		
	MURATA	KX		KX331K		
	TDK	CD		CD331K		
PFC Coil, (L600)	SOOJUNG	LLP-101	Rated 130°C	LLP-101	IEC 60950-1	Test in appliance
	NAMYANG					
	KYUNGIN					
	Clover Hi TECH					
	FEELUX					
	LIENCHANG					
INV. Transformer (T703,T704) LGP42-10LF	Nam Yang	LIF42-100L	Class B	LIF42-100L	IEC 60065	Test in appliance
	Clover Hi TECH					
	Kyung-In					
	FEELUX					
	LIENCHANG					
INV. Transformer (T703,T704) LGP42-10LA	Nam Yang	LIF42-101A	Class B	LIF42-101A	IEC 60065	Test in appliance
	Clover Hi TECH					
	Kyung-In					
	FEELUX					
	LIENCHANG					
INV. Transformer (T703,T704) LGP42-10LC	Nam Yang	LIF42-102C	Class B	LIF42-102C	IEC 60065	Test in appliance
	Clover Hi TECH					
	Kyung-In					
	FEELUX					
	LIENCHANG					
INV. Transformer (T703,T704) LGP42-10LS	Nam Yang	LIF42-103S	Class B	LIF42-103S	IEC 60065	Test in appliance
	Clover Hi TECH					
	Kyung-In					
	FEELUX					
	LIENCHANG					
Transformer, (T701, T702)	Nam Yang	LIP-001	Class A	LIP-001	IEC 60065	Test in appliance
	Soo Jung					
	Clover Hi TECH					
	Kyung-In					
	FEELUX					
Switching Transformer, (T501)	SOOJUNG	LPM-100	Class B	LPM-100	IEC 60065	Test in appliance
	NAMYANG					
	KYUNGIN					
	CLOVER					
	FEELUX					
Opto-coupler, (IC502, IC503)	Everlight	EL817	>0,4mm / Rated 6000Vac	EL817	VDE 0884	
	Lite-on	LTV817...		817BN		
Discharge Resistor, (R100)	Smart	PRC	1/2W, 1Mohm, 5%		IEC 60065	
	Pilkor	SR37,MSR37			IEC 60065	
Capacitor (C600,C719)	Pilkor	PCMP 372	0.82uF / 500V	820n J500V372MKP	IEC60384-16	
	Sung-Ho	BMPP	0.82uF / 500V	824J500V BMPP SH		
PCB	DSCOM	DS 4	94V-0		94V-0, min.105°C	
	DONGMYUNG CIR.	DM5-V-0	94V-0			
	JOONGWON	NR-F NR-D	94V-0			
	SHANGHAI WANZHENG	SWZ-1	94V-0			
	SHENG KHUANG(WEI JUN)	03V0-C	94V-0			
	SHANGHAI AREX	02V0	94V-0			
	NEW TRIUNION	TU-3	94V-0			
	CHIN POON	E5	94V-0			
	Daeduck GDS Co., Ltd.	DC-1 DC-2	94V-0			
	HUIHO	4B-5	94V-0			
	HSIANG KUO	07V0	94V-0			
	Duck sung	DS8-V-0	94V-0			
	TIS KOREA	TIS-3	94V-0			
	SAMHAN	SH7	94V-0			
	HT CIRCUIT(QINGDAO)	1994V0	94V-0			

1) an asterisk indicates a mark which assures the agreed level of surveillance
Remarks: *) Large volume capacitors exceeding volume 1750mm³

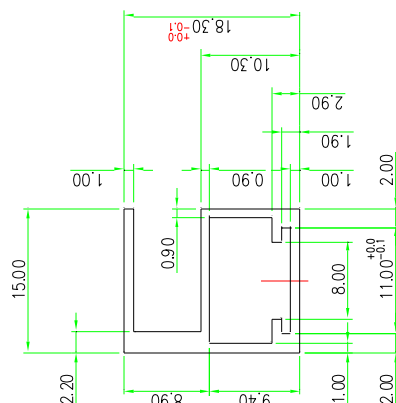
Mechanical Drawing

HS1

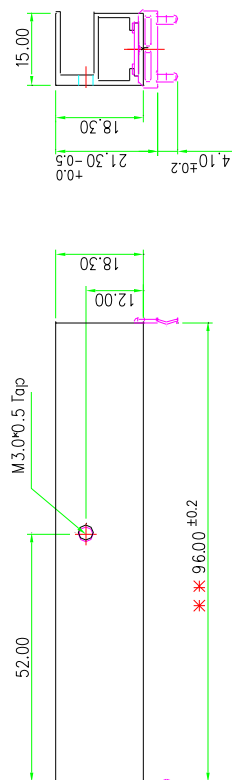
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Extruding Drawing

(Scale 2:1)



Ass'y Drawing

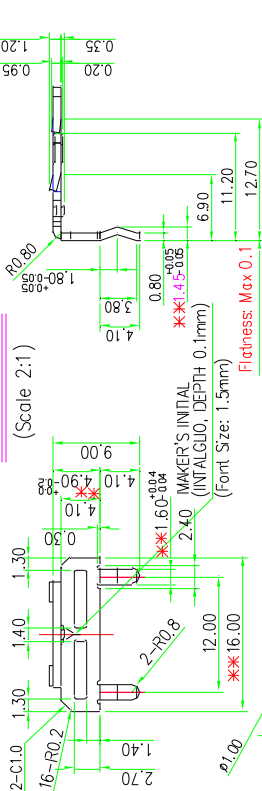


NOTE

1. Unspecified tolerance is ± 0.15
2. Flatness and warpage should be less than 0.15
3. The electric connection must be secured between heat sink and lugs.
(Electric resistance between lugs in end of H/S: under 0.5 Ohm)
4. Cutting planes shouldn't be remained any sharp burrs could injure worker
in surface of it couldn't be allowed
5. Any metallic particles, contaminations, scratches, dents and marks
6. Lug shouldn't be taken out by specific pulling force is less than 3kgf.
(Refer to below details)

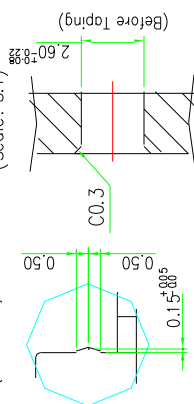
Lug Drawing

(Scale 2:1)



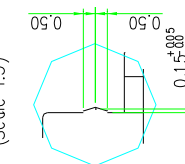
Hole Detail

(scale: 5:1)



Detail "a"

(Scale 1-5)

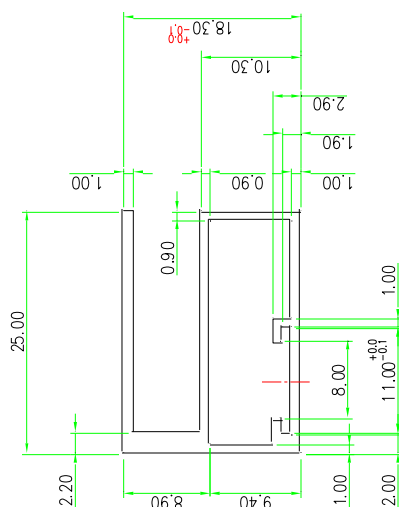


—	Lug	SPCC, 0.8t	16(L) x 16(W) x 9.0(H)	Tin Plating (Cu: 1~6um, Sn: 2~8um)
—	Heat Sink	Al6063, Purity: more than 98%	96(L) x 15(W) x 18.3(H)	Anodizing 1~4um
Part No.	Name	Raw Material	Specification	Plating/Finish
			UNIT mm	SCALE 1 : 1
			DSGD	10L 32" 37" 42" (Normal)
			CHGD	TITLE Heat Sink-1 (3HEAZA0033A-R)
		APPD. 2009.12.01	DRM. 2009.12.01	DOCUMENT NO.
		Kano Chang Sung	Issued Checked Hiro	(1/5)
DATE	DATE	DATE	DATE	DATE
SIGN	SIGN	SIGN	SIGN	SIGN

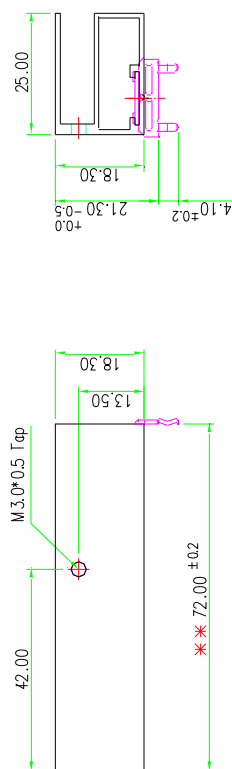
HS2

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND MAY NOT BE REPRODUCED WITHOUT THE EXPRESS WRITTEN PERMISSION OF A DUTY AUTHORIZED REPRESENTATIVE OF LG INNOTEK.

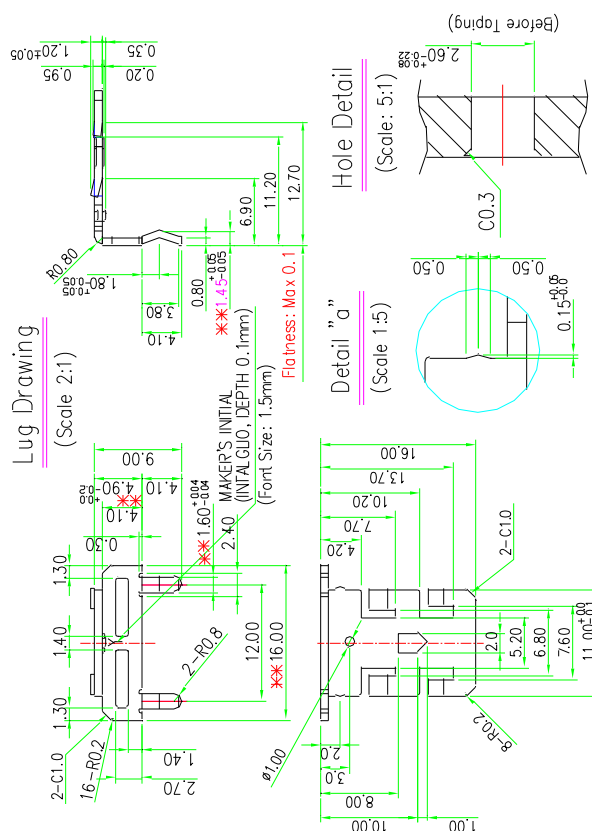
Extruding Drawing
(Scale 2:1)



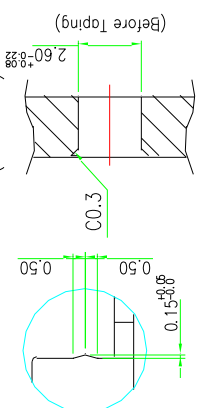
Ass'y Drawing



Lug Drawing
(Scale 2:1)



Hole Detail
(Scale: 5:1)



NOTE

1. Unspecified tolerance is ± 0.15
2. Flatness and warpage should be less than 0.15
3. The electric connection must be secured between heat sink and lugs.
(Electric resistance between lugs in end of H/S: under 0.5 Ohm)
4. Cutting planes shouldn't be remained any sharp burrs could injure worker
in surface of it couldn't be allowed
5. Any metallic particles, contaminations, scratches, dents and marks
6. Lug shouldn't be taken out by specific pulling force is less than 3kgf.
(Refer to below details)

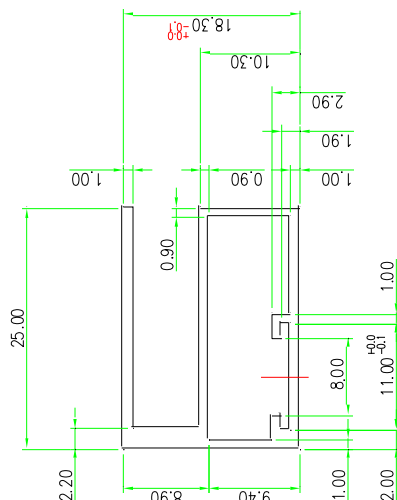
—	Lug	SPCC, 0.8t	16(L)×16(W)×9.0(H)	In Plating (Cu:1~6um, Sn:2~8um)
—	Heat Sink	A6063, Purity: more than 98%	72(L)×25(W)×18.3(H)	Anodizing 1~4um
Part No.	Name	Raw Material	Specification	Plating/Finish
			UNIT mm	SCALE 1 : 1
			APPD.	DRUM.
			2009.12.01	2009.12.01
			Kun Chang Sang	Jesa Sang Ho
			DSD	DOCUMENT NO.
			APPD	(2/5)
ZONE	SYMB	DATE OR NO.		

HS3

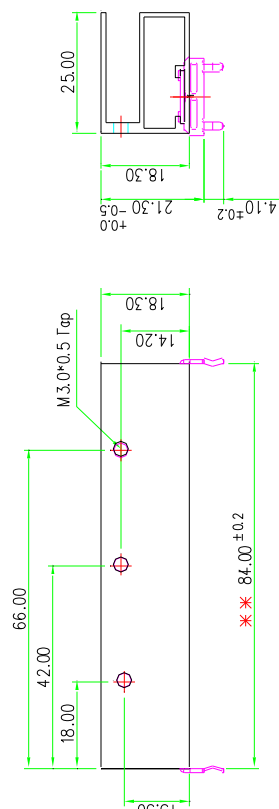
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND MAY NOT BE REPRODUCED WITHOUT THE EXPRESS WRITTEN PERMISSION OF A DUTY AUTHORIZED REPRESENTATIVE OF LG INNOTEK.

Extruding Drawing

(Scale 2:1)



Ass'y Drawing

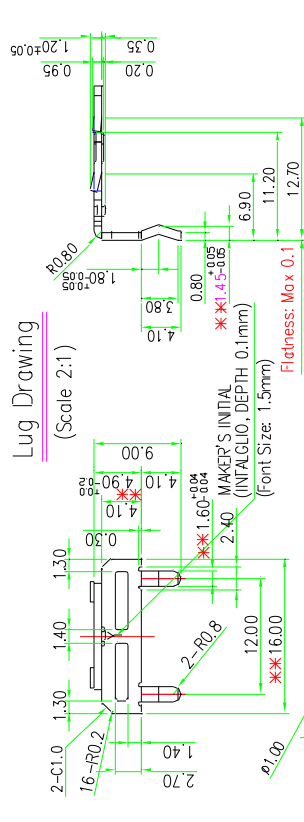


NOTE

1. Unspecified tolerance is ± 0.15
2. Flatness and warpage should be less than 0.15
3. The electric connection must be secured between heat sink and lugs.
(Electric resistance between lugs in end of H/S: under 0.5 Ohm)
4. Cutting planes shouldn't be remained any sharp burrs could injure worker
5. Any metallic particles, contaminations, scratches, dents and marks in surface of it couldn't be allowed
6. Lug shouldn't be taken out by specific pulling force is less than 3kgf.
(Refer to below details)

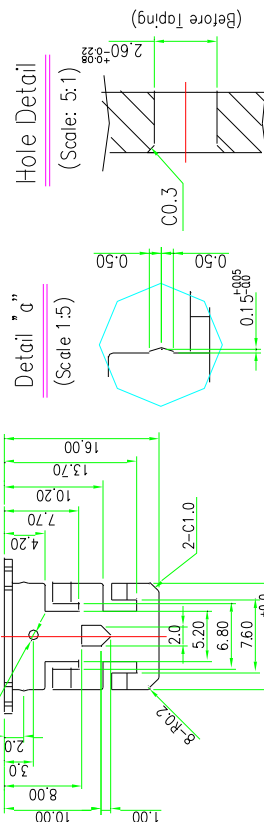
Lug Drawing

(Scale 2:1)



Hole Detail

(Scale: 5:1)



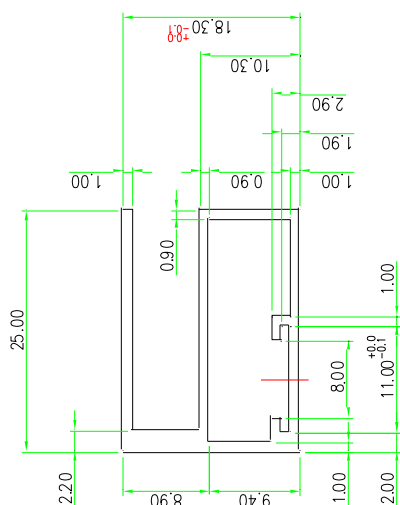
	Lug	SPCC, 0.8t	16(L)x16(W)x9.0(H)	Tin Plating (Cu:1~6um;Sn:2~8um)
	Heat Sink	AI6063, Purity: more than 98%	84(L)x25(W)x18.3(H)	Anodizing 1~4um
Part No.	Name	Raw Material	Specification	Plating/Finish
			UNIT mm	10L 37" 42" (Normal)
			SCALE 1 : 1	
			DRAW. 2009.12.01	
			CHECKED APPROVED 2009.12.01 KIM	
			DESIGN CHENG SUNG IL CHANG SUNG IL	
ZONE	SITE	DATE OR NO.	APPROV	DOCUMENT NO. (3 / 5)

HS4

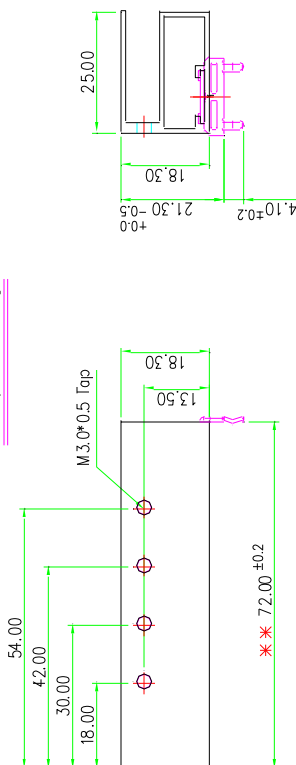
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Extruding Drawing

Scale 2:1)



Ass'y Drawing

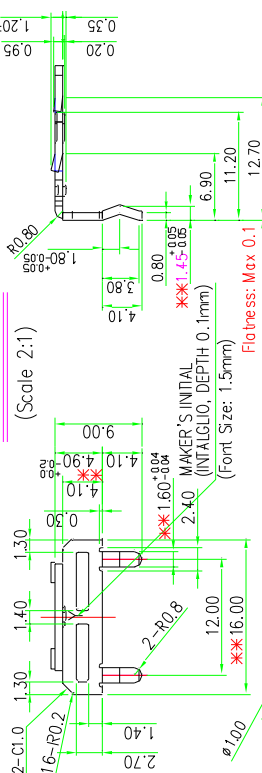


NOTE

1. Unspecified tolerance is ± 0.15
2. Flatness and warpage should be less than 0.15
3. The electric connection must be secured between heat sink and lugs.
(Electric resistance between lugs in end of H/S: under 0.5 Ohm)
4. Cutting planes shouldn't be remained any sharp burrs could injure worker in surface of it couldn't be allowed
5. Any metallic particles, contaminations, scratches, dents and marks
6. Lug shouldn't be taken out by specific pulling force is less than 3kgf.
(Refer to below details)

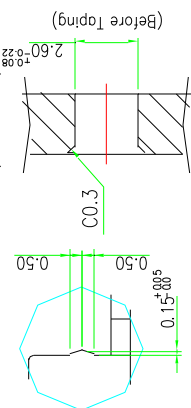
Lug Drawing

(Scale 2:1)



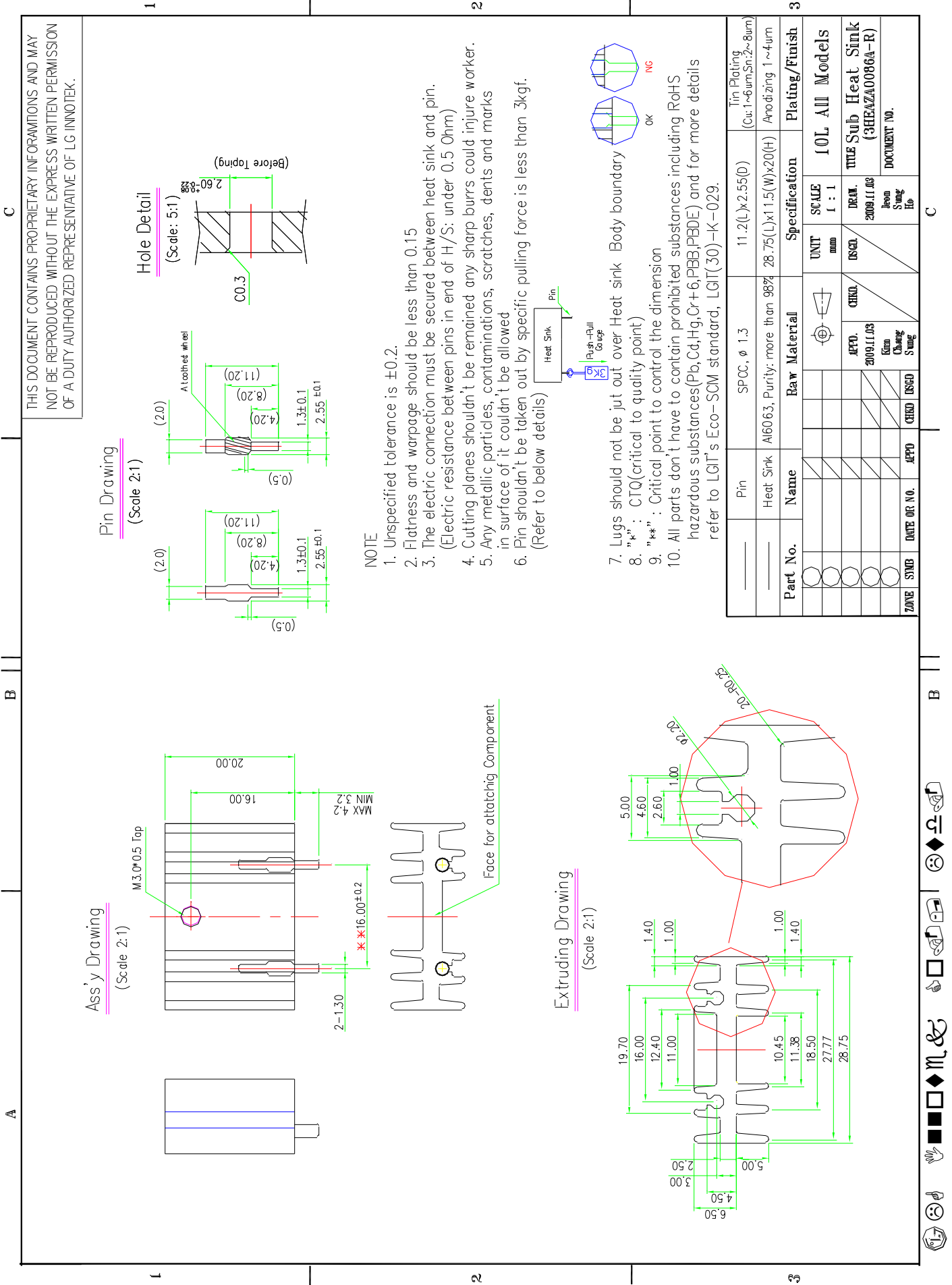
Hole Detail

(Scale: 5:1)



Part No.	Name		Raw Material		Specification		Plating/Finish	
					UNIT mm	SCALE 1 : 1	Tin Plating (Cu:1~6um,Sn:2~8um)	
							16(L)x16(W)x9.0(H)	
							72(L)x25(W)x18.3(H)	
							Anodizing 1~4um	
ZONE	SYMB	DATE OR NO.	APPD	CHECK	DESIGN	DRAM.	TITLE Heat Sink-4 (3HEAZA0036A-R)	
						2009.12.01	DOCUMENT NO. (4/5)	

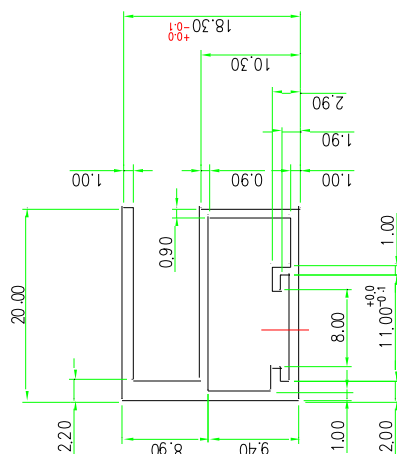
HS5



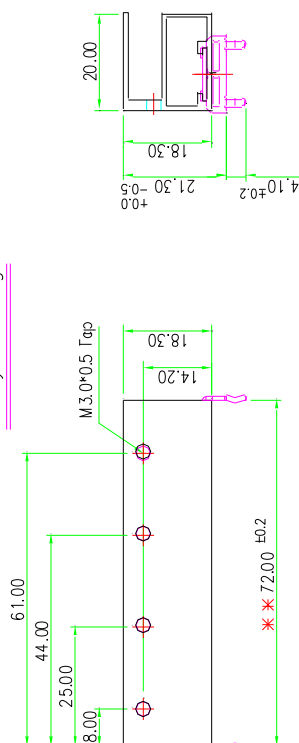
HS6

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND MAY NOT BE REPRODUCED WITHOUT THE EXPRESS WRITTEN PERMISSION OF A DUTY AUTHORIZED REPRESENTATIVE OF LG INNOTEK.

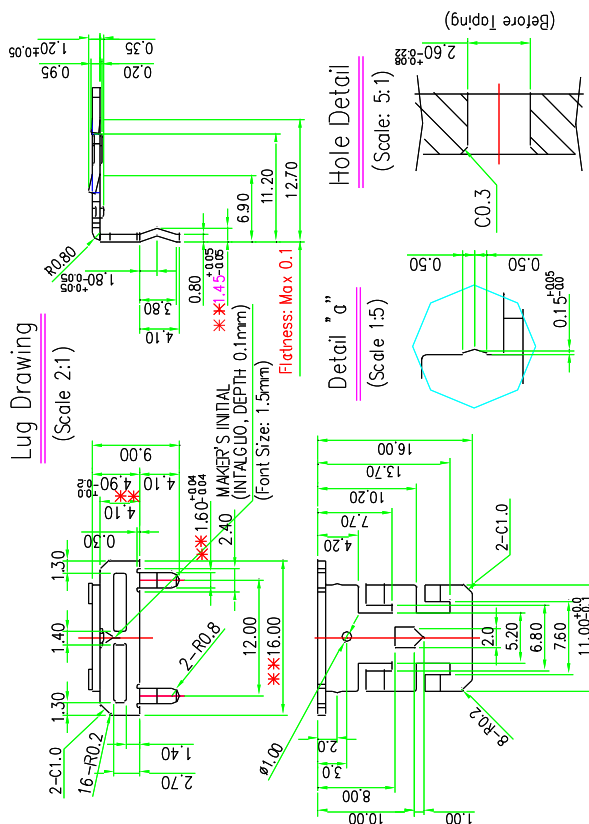
Extruding Drawing
(Scale 2:1)



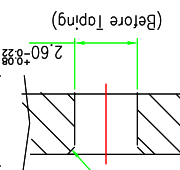
Ass'y Drawing



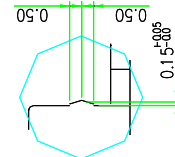
Lug Drawing
(Scale 2:1)



Hole Detail
(Scale: 5:1)



Detail "a"
(Scale 1:5)

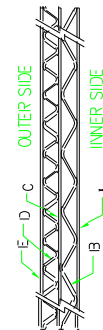


NOTE

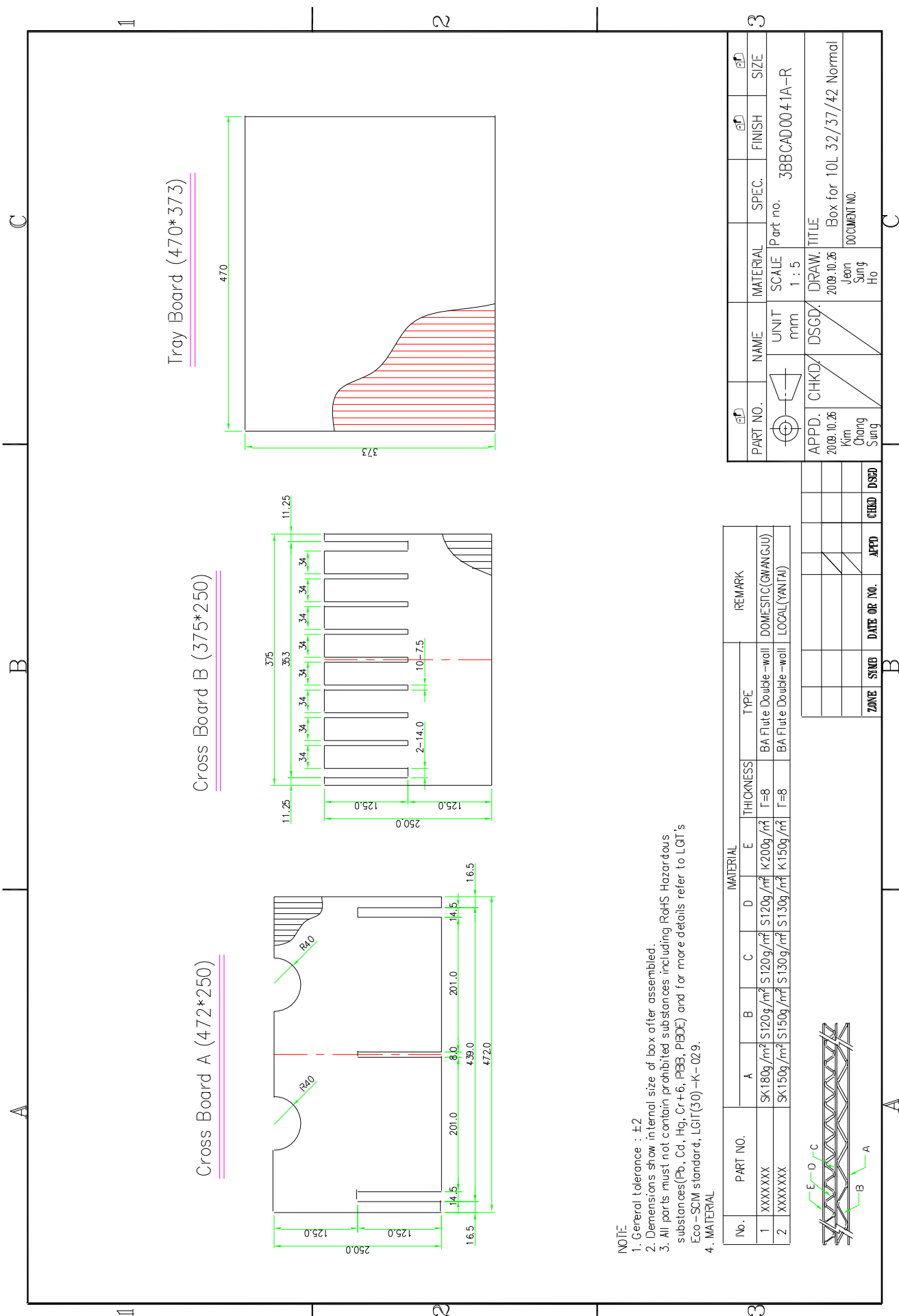
1. Unspecified tolerance is ± 0.15
 2. Flatness and warpage should be less than 0.15
 3. The electric connection must be secured between heat sink and lugs.
(Electric resistance between lugs in end of H/S: under 0.5 Ohm)
 4. Cutting planes shouldn't be remained any sharp burrs could injure worker in surface of it couldn't be allowed
 5. Any metallic particles, contaminations, scratches, dents and marks
 6. Lug shouldn't be taken out by specific pulling force is less than 3kgf.
(Refer to below details)
-
7. Surface treatment: Anodizing 1~4um
 8. "JK": CTQ(critical to quality point)
 9. "KK": Critical point to control the dimension
 10. All parts don't have to contain prohibited substances including RoHS hazardous substances (Pb, Cd, Hg, Cr+6, PBB, PBDE) and for more details refer to LGIT's Eco-SDM standard, LGIT(30)-K-029.

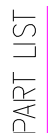
		Lug	SPCC, 0.8t	16(L)×16(W)×9.0(H)	tin Plating (Cu: 1~6um, Sn: 2~8um)
		Heat Sink	A16063, Purity: more than 98%	72(L)×20(W)×18.3(H)	Anodizing 1~4um
Part No.	Name	Raw Material	Specification	Plating/Finish	
				UNIT mm	SCALE 1 : 1
				10L 32"37"42" (Normal)	
			APPR. 2009.12.01 Kim Chang Sung	CHECKED	TITLE Heat Sink-5 (3HEAZA0037A-R)
			DRAWN	2009.12.01	DOCUMENT NO. (5/5)
			DATE OF NO.	DATE	
			DATE		

Packing Drawing



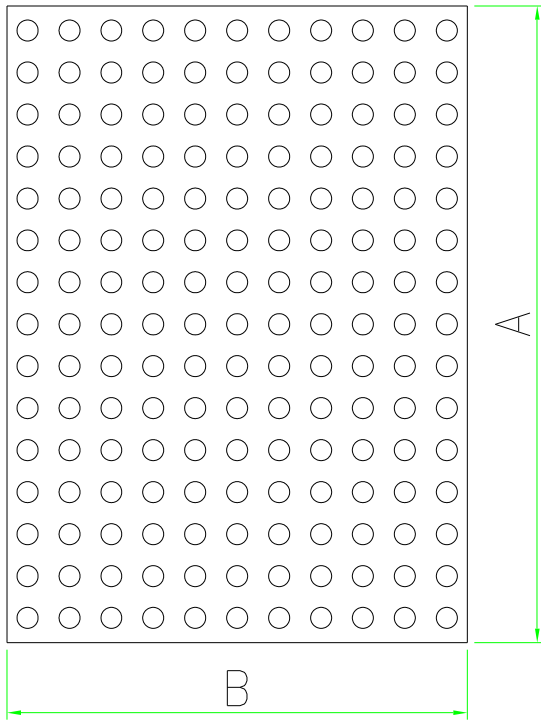






No.	PART NAME	QUANTITY	REMARK
①	OUT BOX	1	
②	Tray Board (470*373)	3	
⑤	Cross Board A (472*250)	11	
④	Cross Board B (375*250)	5	

[illegible][illegible]



- NOTE
1. Material : LDPE
 2. General tolerance : ± 5
 3. COLOR : PINK
 4. Antistatic finishing
 5. Surface Resistance : $10^8 \sim 10^{10} \Omega/\text{SQ}$
 6. All parts must not contain prohibited substances including RoHS azardous substances (Pb, Cd, Hg,Cr+6, PBB, PBDE) and for more details refer to LGIT's Eco-SCM standard, LGIT (30)-K-029.

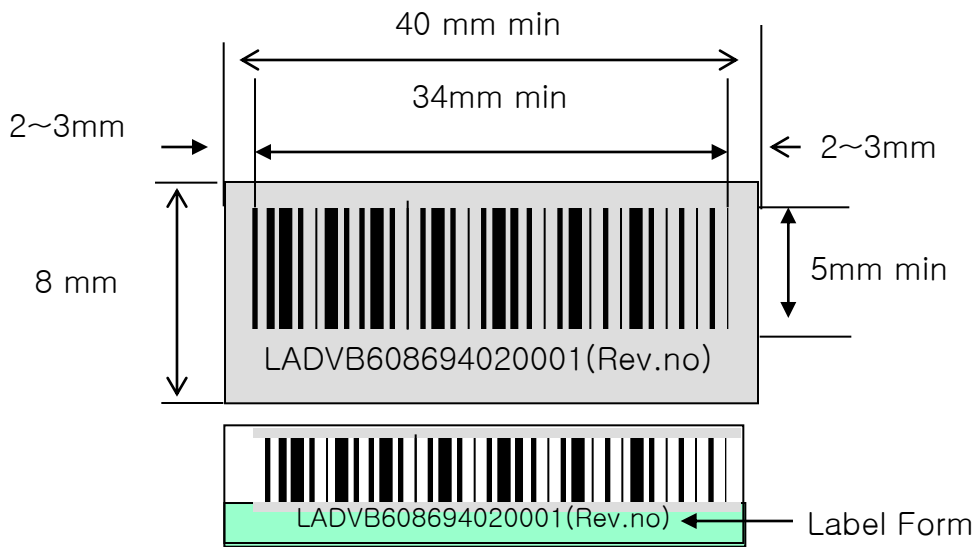
Part NO.	Thickness	"A"	"B"	Application Model
A	4 ±1.5	720	220	32/37/42 Normal
B	4 ±1.5	580	350	47" Normal/ 42TM
C	4 ±1.5	580	365	47" TM

PART NO.		NAME		MATERIAL		SPEC.		FINISH	SIZE
							UNIT mm	SCALE NS	
						APPD.	CHKD.	DRAW.	TITLE
						09.09.21		09.09.21	Air Vinyl for 10L
						Kim		Jeon	
						Chang		Sung	
						Sung		Ho	DOCUMENT NO.
ZONE	SYMB	DATE OR NO.	APPD	CHKD	DSGD				

LG Innotek Co., Ltd.

Bar-Code Label Drawing

LGP42-10LF (EAY60869402)



※ Bar Code Size는 그림의 size가 최소size이며, 업체 기준 및 PCB공간에 따라 변경 할 수 있으나, 그림의 size보다 줄일 수 는 없음.

Code	Barcode Specification	Remark
Manufacturing code	L (L : LGIT)	
Manufacturing Year	A (A : 2010)	
Manufacturing Month	2 (1,2,3,... 10:O, 11:N, 12:D)	
Manufacturing Date	1 (1~9,... A:10, B:11, C:12, ...V)	
Manufacturing Line	A~D : Gwangju , E~N, 0~9 : Yantai	
LG Part No.	60869402 (EAY60869402)	
Serial. No.	0001 (10Digit, 0001~9999)	
Rev. No	Approval Sheet Revision Number	
Barcode type : 93 code Barcode length : 17 digit Label size : 8 X 36 mm (minimize)		

※ BARCODE PRINTING : DO NOT ERASE, WHEN RUB BY HAND.

※ Label P/N : 3320KE0008B
Ribbon Black R300 P/N : 5250KR0011A

LGP42-10LA (EAY60869403)

※ Bar Code Size는 그림의 size가 최소size이며, 업체 기준 및 PCB공간에 따라 변경 할 수 있으나, 그림의 size보다 줄일 수 는 없음.

Code	Barcode Specification	Remark
Manufacturing code	L (L : LGIT)	
Manufacturing Year	A (A : 2010)	
Manufacturing Month	2 (1,2,3,... 10:O, 11:N, 12:D)	
Manufacturing Date	1 (1~9,... A:10, B:11, C:12, ...V)	
Manufacturing Line	A~D : Gwangju , E~N, 0~9 : Yantai	
LG Part No.	60869403 (EAY60869403)	
Serial. No.	0001 (10Digit, 0001~9999)	
Rev. No	Approval Sheet Revision Number	
Barcode type : 93 code Barcode length : 17 digit Label size : 8 X 36 mm (minimize)		

※ BARCODE PRINTING : DO NOT ERASE, WHEN RUB BY HAND.

※ Label P/N : 3320KE0008B

Ribbon Black R300 P/N : 5250KR0011A

LGP42-10LC (EAY60869405)

※ Bar Code Size는 그림의 size가 최소size이며, 업체 기준 및 PCB공간에 따라 변경 할 수 있으나, 그림의 size보다 줄일 수 는 없음.

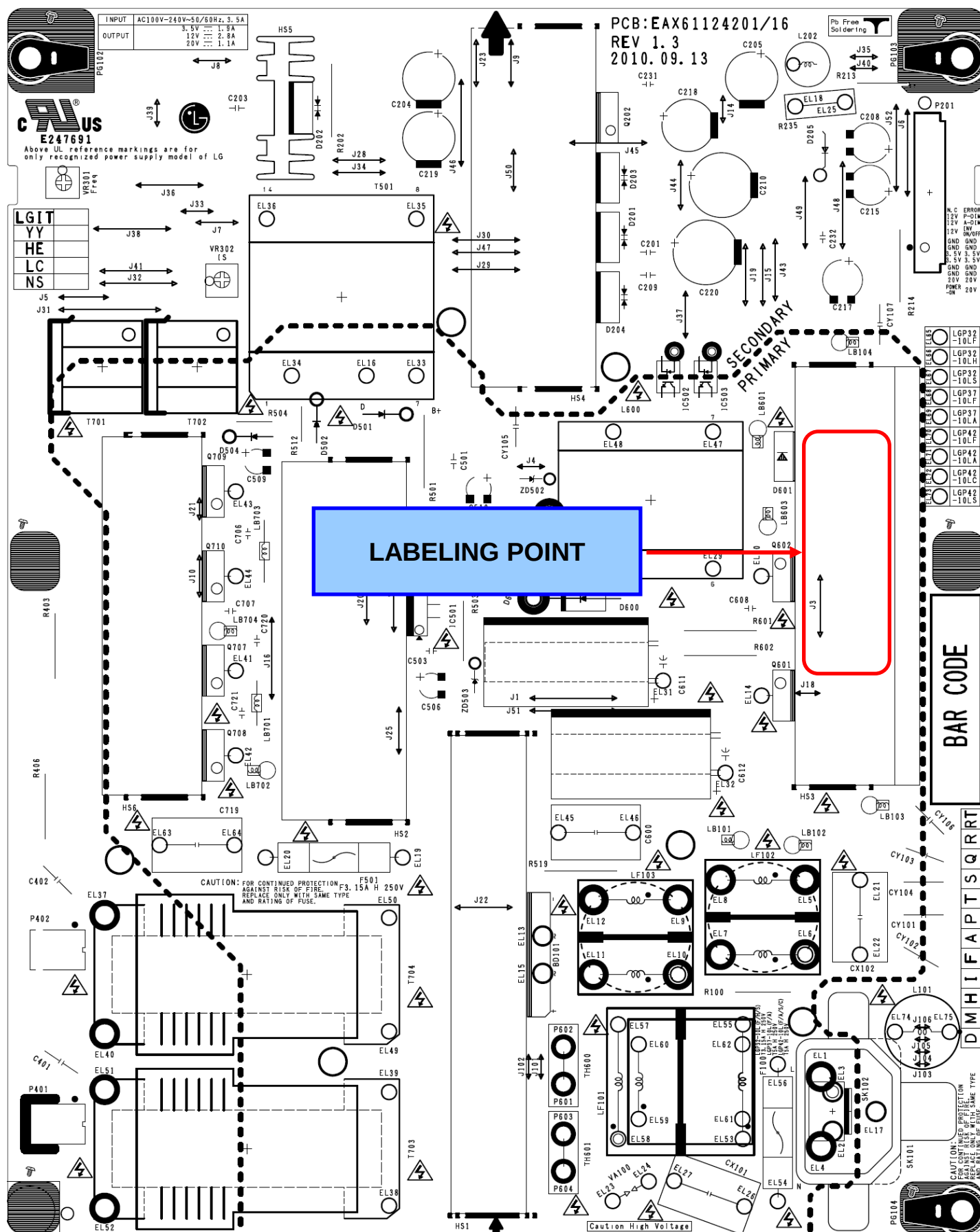
Code	Barcode Specification	Remark
Manufacturing code	L (L : LGIT)	
Manufacturing Year	A (A : 2010)	
Manufacturing Month	2 (1,2,3,... 10:O, 11:N, 12:D)	
Manufacturing Date	1 (1~9,... A:10, B:11, C:12, ...V)	
Manufacturing Line	A~D : Gwangju , E~N, 0~9 : Yantai	
LG Part No.	60869405 (EAY60869405)	
Serial. No.	0001 (10Digit, 0001~9999)	
Rev. No	Approval Sheet Revision Number	
Barcode type : 93 code Barcode length : 17 digit Label size : 8 X 36 mm (minimize)		

※ BARCODE PRINTING : DO NOT ERASE, WHEN RUB BY HAND.

※ Label P/N : 3320KE0008B

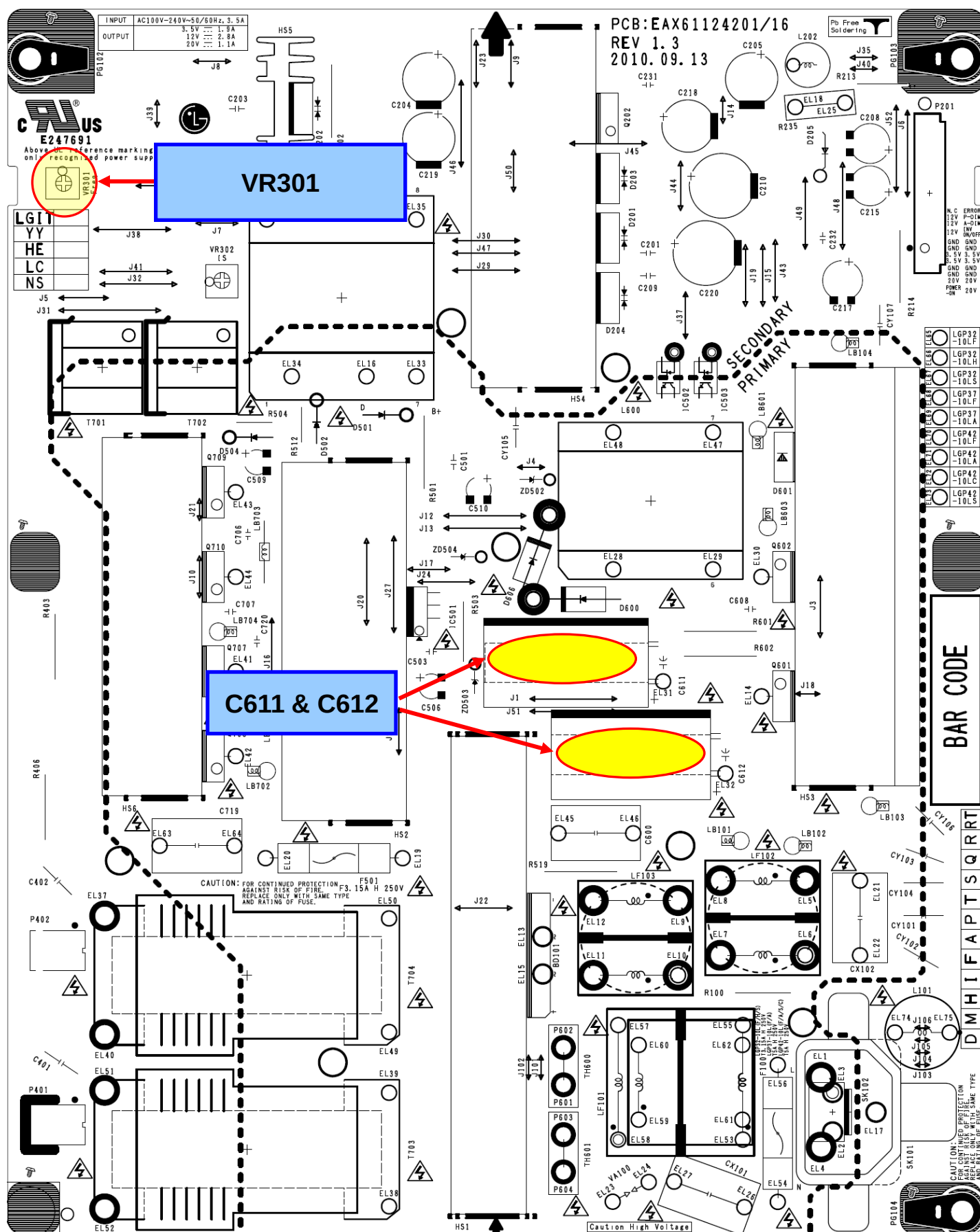
Ribbon Black R300 P/N : 5250KR0011A

Labeling Point

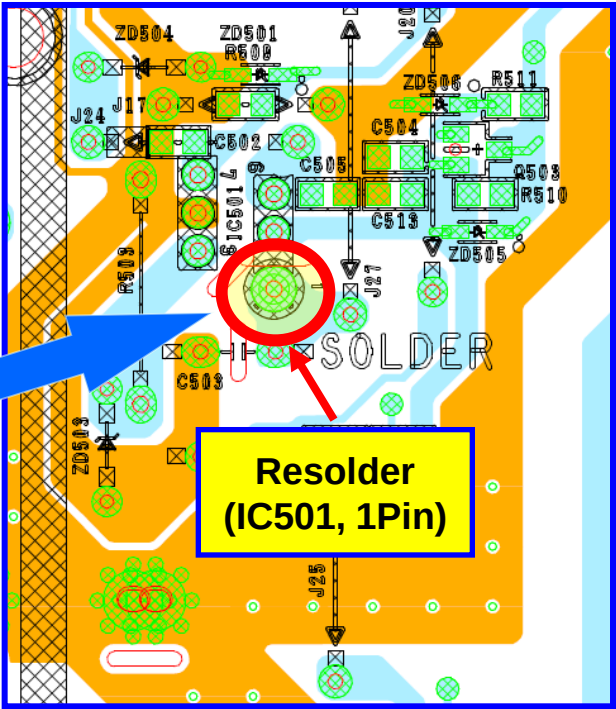
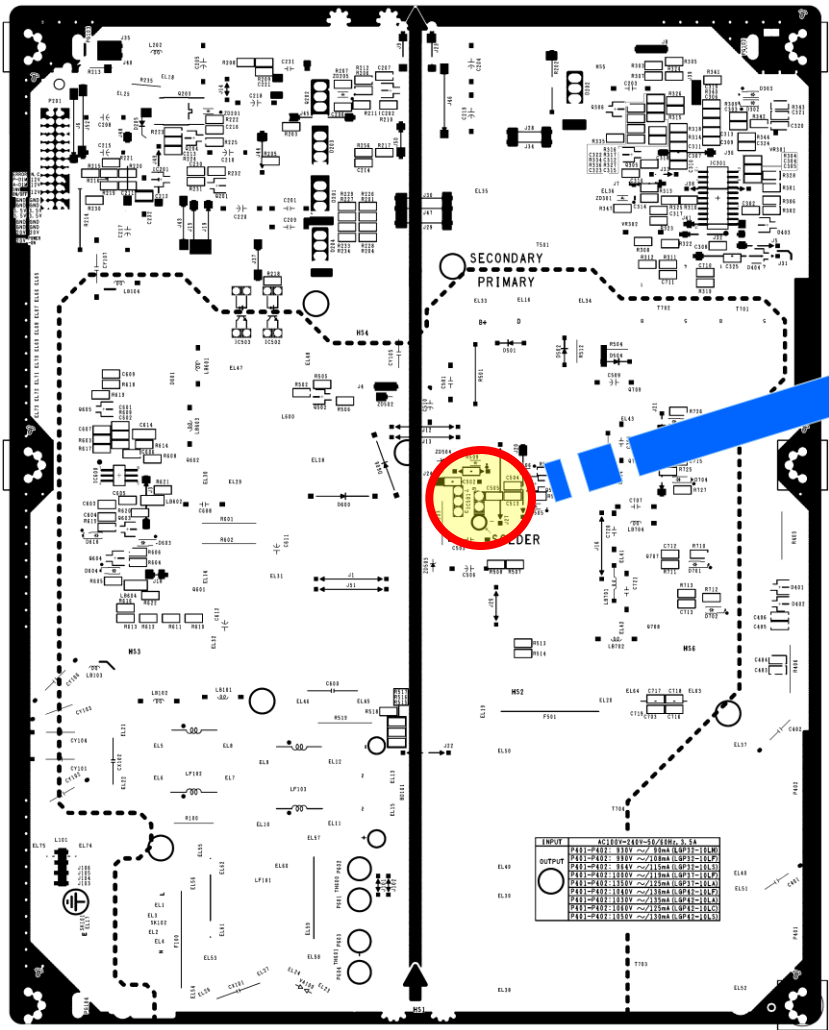


Workmanship Point

Silicon Bonding Point (●).



Additional Soldering Point



Appendix List

No.	Contents
1	PCB Check list
2	Warranty letter

Appendix 1.

PCB CHECK LIST

Revision History		Rev	DATE	REMARK
1	Power Point로 양식 변경	1.2	2005.07.15	승인원 첨부용
2	기타 3항 추가	1.3	2005.09.28	
3	Safety GND marking 기준 변경	1.4	2006.04.06	
4	1. 2page : CTV Location No. 800번대 회로번호 표준 제정(2007.04.16) 2. 3page : PCB pattern Primary <-> Secondary 6.5mm -> 규격 Creepage Table : 첨부화일 참조 3. 4 page No.1 : Surge Test Pattern : 주석 추가. 4. 4 page No.3 : Lug Type Capacitor : Power부가 수직으로 장착 모델에 한함. 5. 4 page No.6 : 규격 Gr. 확인 필요. 6. 5 page No.5 : Inverter 출력부 Marking 추가 7. 5 page No.6 : 안전 규격 check List 입수 8. 5 page No.7 : Inverter 출력부 Marking 9. 6 page No.1 : varistor 15 pi 이상 -> 14 pi 이상 10. 6 page No.4 : 4mm -> 3.5mm 11. 6 page No.3(온도) : Solder면 관리 기준 변경 12. 7 page No.4 : Litz wire 사용 금지 추가 13. 양산 문제점 추가 - PFC : Bypass Diode 추가 - Relay : Fusing 저항 사용 - Control IC 저온 기동 불 : Vcc 정류 cap. High Ripple/Low Impedance 적용 - 기구 Dead space 확인 - Conducted Emission Test항목 : 110Vac/ 220Vac/50Hz/60Hz/안테나 GND 유/무 - RN Type (Metal Film Type) Resistor 14. Revised PL법	1.5	2007.09.17	
5	1. 5 page No. 1 : AC socket L/N 표기 주의 추가 2. 7 page No. 9 : TO-220 forming 확인 추가 3. 4 page No. 6 : Trans 이격 spec 변경 (7→8mm)	1.6	2008.03.25	
6	1. 7 page No. 8 : Metal film 저항 불량 이력 추가 2. 7 page No. 10 : lead 길이 special 관리 품 주의	1.7	2008.06.24	
7	1. 6 page No. 3 : Inverter 고압 CAP touch 방지 추가	1.8	2008.11.06	
8	부품 LOCATION NO. 기준 변경 1. 3 page No.33 : Y_CAP -> CY*** 2. 3 page No.34 : X-CAP -> CX*** 3. 3 page No.29 : Line Filter -> LF*** 4. 2 page No.16 : Bead -> LB*** 5. 2 page No. 25 : EYELET -> EL*** 6. 3 page No.35 : Fusible Resistor -> R***	1.9	2009.10.07	

Details Check Item		RESULT		REMARK
▶ 부품 LOCATION NO.		OK	NG	
1	Power 1차측 회로 Location No.가 100번대 일 것(Multi 1차측 포함)	O		
2	Power 2차측 회로 Location No.가 200번대 일 것(Stand by 2차측, Multi 2차 포함)	O		
3	Inverter 1차측 회로 Location No.가 300번대 일 것	O		
4	Inverter 2차측 회로(F/B, OVP 회로부 포함) Location No.가 400번대 일 것	O		
5	Stand by 1차측은 Location No.가 500번대 일 것	O		
6	PFC단은 Location No.가 600번대 일 것	O		
7	MICOM 주위는 Location No.가 700번대 일 것			해당 없음
8	PDP Vs, Va 1차단은 Location No.가 800번대 일 것			해당 없음
9	PDP Vs, Va 2차단은 Location No.가 900번대 일 것			해당 없음
9'	CTV Power Block은 Location No. 800번대 일 것			해당 없음
10	Resistor의 회로Location No.는 R***로 시작할 것	O		
11	Capacitor의 회로Location No.는 C***로 시작할 것	O		
12	Diode의 회로Location No.는 D***로 시작할 것	O		
13	Zener Diode의 회로Location No는 ZD***로 시작할 것	O		
14	Coil의 회로Location No.는 L***로 시작할 것 (PFC 포함)	O		
15	Transformer의 회로Location No.는 T***로 시작할 것(Drive Trans 포함)	O		
16	Bead의 회로Location No.는 LB***로 시작할 것	O		
17	Fuse의 회로Location No.는 F***로 시작할 것	O		
18	TR/FET/Thyristor의 회로Location No.는 Q***로 시작할 것	O		
19	Varistor의 회로Location No.는 VA***로 시작할 것	O		
20	Volume Resistor의 회로Location No.는 VR***로 시작할 것	O		
21	Jumper의 회로Location No.는 J***로 시작할 것	O		
22	H/S의 회로Location No.는 HS***로 시작할 것	O		
23	IC의 회로Location No.는 IC***로 시작할 것	O		2007.04.16 DDC 표준
24	Connector wafer / Ass'y (Board in type)의 회로 Location No.는 P***로 시작할 것	O		
25	Eyelet의 회로Location No.는 EL***로 시작할 것	O		
25	Gripper의 회로Location No.는 G***로 시작할 것			해당 없음

Details Check Item		RESULT		REMARK
▶ 부품 LOCATION NO.		OK	NG	
26	Holder의 회로Location No.는 HD***로 시작할 것			해당 없음
27	Thermistor의 회로Location No는 TH***로 시작할 것	O		
28	Metal Ground의 회로Location No.는 PG***로 시작할 것	O		
29	Line Filter의 회로Location No.는 LF***로 시작할 것	O		
30	AC Socket(Inlet)의 회로 Location No.는 SK***로 시작할 것 (AC전원 Docking용 Wafer 포함)	O		2007.04.16 DDC 표준
31	Photo Coupler의 회로Location No는 IC***로 시작할 것	O		2007.04.16 DDC 표준
32	Relay의 회로 Location No.는 RL***로 시작할 것			해당 없음
33	Y-Capacitor의 회로Location No는 CY***로 시작할 것	O		
34	X-Capacitor의 회로Location No는 CX***로 시작할 것	O		
35	Fuseble Resistor의 회로Location No는 R***로 시작할 것			해당 없음
▶ PCB Pattern 간격		OK	NG	
1	Primary ⇔ Secondary(GND,Y-Cap,Photo Coupler) 간격이 Creepage 기준을 만족할 것.(규격Gr. 안전규격 Check List 참조.Note 0) (단, Working Voltage가 350V이상일 때 규격 요청 거리에 따른다.)	O		첨부화일 참조. (Creepage)
2	Primary(L,N) ⇔ Safety GND 간격이 3mm이상일 것	O		
3	Live ⇔ Neutral 간격이 3mm이상일 것	O		
4	Primary ⇔ Secondary 부품간 공간 거리는 6mm이상일 것 (6mm 이하일 경우에는 insulation sheet 추가)	O		
5	1차측 Main Current loop는 Pattern 두께 3mm 이상일 것 (BD ↔ 1차 평활 Cap까지 중점 Check)	O		
6	2차측은 40V이상일 경우 전압에 따라 Pattern 거리 이격 시켜야 함. * 50V : 0.5 mm, 50V ~ 150V: 1.5mm, 150V ~300V : 2mm, 300V~600V : 4mm DC 기준.)	O		
7	PFC Coil 밑으로 소신호 Line이 지나가지 말 것. DC는 문제 없음	O		

NOTE 0



Creepage

Details Check Item		RESULT		REMARK
▶ Component		OK	NG	
1	Surge Test 시 1~2차간 간격이 6.0mm 이상일 것(safety GND와 2차 GND의 구별 주의 (절연 Y-Cap사용) 공간확보 주의, 절연Sheet)	O		(주) 3심:3.5mm (내압 test 必) 2심:6.0mm (Y-cap 포함)
2	전해 Cap(전수) 부품 주위 발열 부품 과 3mm 이상 이격 시킬 것 (공간거리)	O		
3	1차 평활 전해 Cap 부품 upper 영역은 1mm이상 Bottom 영역은 5mm 이상 이격 시킬 것 (Vertical type Capacitor에 한함) (Note 1)			해당 없음
4	1차 평활 Cap 3mm 영역 내 아래로 Pattern이 지나가지는 않을 것 (양면 PCB 상측 Pattern에 한함)			해당 없음
5	높이가 낮은 코어를 사용할 경우 절연 tape를 사용할 것 (PCB와의 이격거리 확보)	O		
6	Trans의 경우 300V 기준으로 Barrier 8mm 이상 사용하고 있을 것 (Note 0) (Barrier를 줄이기 위해 Wire에 Tube 사용가능, 규격 GR. 필 확인 사항)	O		첨부화일 참조. (Creepage)
7	AC Inlet의 경우 Yellow - Green wire의 Screw 3.5Φ 이상일 것. * Y/G wire를 사용하지 않을 경우, PCB Pattern으로만 대응 시엔 200A Test통과할 것 [예)Safety GND 방향은 9.5mm + Jump Wire 8개) 예) 양면 PCB는 반드시 상,하측 GND Pattern 9.5mm 이상] * Safety GND는 독립적으로 GND역할만 하도록 할 것. UL Test의뢰 / 미리 설계된 Pattern사용. Pattern 대응 시엔 반드시 규격 확인을 필할 것	O		
8	부품에 힘을 가했을 때 1~2차 부품간 6mm 공간 거리 확보할 것. Core에 절대로 부품이 접촉되면 안됨	O		
9	Box type Capacitor 사용 시 Forming type이 적용할 것. RTV Bond가 되어 있을 것 (X-capacitor 포함.) 단, PDP Sony 모델에 한함			해당 없음
10	CORE(Trans류 All 포함) 주위에는 2mm 이상 전 부품을 이격 시킨다. * 유기전압 1kV (peak to peak) 이상 시엔 4mm 이상 (1000:1 Probe 기준)	O		
11	Inverter Trans와 Metal Frame(shield)과 4mm 이상 이격을 시킨다. (적용이 어려울 경우, 반드시 Insulation sheet 추가한다.)	O		
12	발열 부품과 전해 Cap.은 3mm 이상 이격 시킨다. (특히, Heat Sink) * 불가 시 이격 시켜서 Bonding 처리할 것	O		

NOTE 0



Creepage

NOTE 1



CAPACITOR

Details Check Item		RESULT		REMARK
▶ 필수 Marking 사항		OK	NG	
1	AC Socket, AC입력용 Wafer에 L/N표시는 되어 있을 것. (Docking Type도 L/N 표시(QA 요청), 상,하측 모두 표시) 특히, Socket B/D-in type의 경우, AC socket 자체에 L/N 표기가 되어 있으므로, 반드시 PCB L/N 마킹과 동일한지 확인한다. (Note 3-2)	O		
2	Safety GND는 Chassis로 부터 분리될 때 작업자가 확인 가능한 위치일 것. (Note 2) * 추후, PCB 상,하면에 모두 표기, 상세한 내용은 하단의 유첨 파일 참조 요망, 그리고, 반드시 규격에 최종 확인 받을 것.	O		
3	Fuse rating(전압,T,전류,H), caution(규격 문구), UL Mark는 입력되어 있을 것 * caution: UL에 등록되어있는 문구가 그대로 입력되어야 함 (For ~ , Replace ~)	O		
4	Fuse가 보이는 곳에 위치할 것 (Fuse Marking도 보이는 곳에.)	O		
5	High Voltage warning mark가 입력되어 있을 것. - Inverter 출력부 : LIPS에 한함 Inverter 출력부 영역 표시하고 Warning mark 추가. - Primary측 Metal.(H/Sink), High Voltage가 open된 곳. (Fuse) : 공통	O		
6	입력/출력 전압, 전류 Spec표기는 되어 있을 것 (Note 3) - 안전규격 check list 입수할 것.	O		
7	1차측과 2차측 구분하는 Marking 표시할 것. (상측면 / 하측면)	O		
8	각 부품의 회로No.가 부품에 가려지지 않을 것	O		
9	Solder pattern에 하측 회로No./부품 형상 등 겹쳐지지 말 것	O		
10	기구 Dead Space가 고려되어 PCB Marking할 것. PCB 고정용 Metal 영역 표시할 것.	O		

NOTE 2



Safety GND 규정

NOTE 3



Input/Output

NOTE 3-2



B/D-in socket

Details Check Item		RESULT		REMARK
▶ EMI		OK	NG	
1	Lightning Surge가 L/N Test 시 Varistor를 14Φ 이상 사용할 것	O		
2	Lightning Surge가 L/G, G/N간 : 3KV이상 시 Y-Cap. Y1급 사용할 것	O		
3	Lightning Surge 로 인해 Fuse Dead시만 OK. (대책 : arcing을 방지, Varistor는 Fuse와 가까운 곳에 위치할 것)	O		
4	GND Arcing pattern Slit은 1.2mm일 것 Arcing Pattern 양단 거리는 safety규정은 최소 3.5mm일 것 (L/N 사이)	O		
5	Conducted Emission 측정조건 : 110Vac/220Vac & 50Hz/60Hz TV Model : GND 有/無	O		
▶ INVERTER (LIPS에 한함)		OK	NG	
1	Ballaster capacitor 사용할 것	O		
2	Inverter Trans로 부터 주변 4mm 이내에 소신호 AC pattern이 지나갈 시에는 OVP/OLP 등 Worst 상태를 반드시 확인하여 이상이 없을 것 (Feed Back Line 포함) [AC입력으로 부터 Inverter에 간섭 되는 noise 를 줄이기 위해 POWER FET의 Heat Sink 를 형상 변경하여 AC 입력부와 Inverter Trans 간 Shield로 사용. (CE 규제사항) - Design 상 고려되어야 함.]	O		
3	Inverter 출력부에 적용한 고압 Capacitor의 Lead는 인위적 힘을 가하여도 주변 부품과 Touch 되지 않도록 절연 거리 확보 or Bodning 적용할 것. (특히, 다른 고압 Capacitor의 body와 touch 되지 않도록 할 것)	O		
▶ 온도		OK	NG	
1	Inverter 측의 FET(SOT-8)의 방열이 40도 일 때 Solder 온도 기준 → 100도 이하. (실온일 때 → 85도 이하를 만족할 것) LIPS에 한함.	O		
2	I-V특성곡선을 기준으로 측정한 부분의 전류,전압이 높을 경우 Eyelet 또는 추가 Soldering 를 하고 있을 것' * Bridge Diode의 경우 Eyelet을 추가하기 어려우므로 추가 Soldering 필수, (LIPS :Solder Pattern 보강 PDP : 단면 PCB인 경우 반드시 Eyelet 또는 추가 납 추진)	O		
3.	PCB Solder면 온도 - Phenol/CEM : 100℃ - Epoxy : 105℃ 단, PCB 가공 Maker에서 130도급으로 규격 승인을 받은 경우에 한함. (PCB 원판에 대한 승인 제외) Eyelet/Gripper 적용 시 : +5℃	O		

Details Check Item		RESULT		REMARK
▶ 기타		OK	NG	
1	Fuse 깡통(CAN)Type 을 사용하지 말 것. LBC : 50~500A HBC : 1500A (현재 사용)			해당 없음
2	Heat Sink , Screw는 6가 크롬(Cr) 적용 불가	O		
3	Main Board/Power Board(LIPS 포함) 연결 Connector의 Housing과 Wafer의 Maker가 일치할 것. *일치가 안될 경우, Spec.확인 및 QA 인증 시험이 요구됨.(특히,Board in connector는 Terminal도 확인)	O		
4	Litz Wire 사용하지 말 것.			해당 없음
5	PFC Bypass Diode가 적용되어 있을 것. (Note 4)	O		첨부 파일 참조(Bypass)
6	Relay 적용 모델인 경우, Fusing Resistor 적용 확인할 것.(Note 5)			해당 없음
7	1차 Control IC의 IC Vcc 정류Cap.은 High Ripple, Low Impedance Cap. 사용할 것.	O		
8	RN Type (Metal Film Type) Resistor는 100kohm이상 사용하지 말 것.	O		08년 6월 26" MNT ND 분 양산 문제 발생. (여러 차례 재발됨)
9	TO-220, TO-3P type FET, Diode, IC 적용 시, Forming type 을 적용했을 때 forming 후 cutting을 하기 때문에 길이가 짧아진다. 따라서 반드시 Heatsink 와 PDM 등록 승인원, 부품 현물을 3자 확인 후 lead 길이, pitch 확인할 것. (LGEAZ, LGEND 관련하여 사전 협의 필요 LGEND 에서는 forming type 을 전수 원함)	O		08년 3월 LGEAZ CKD 분 PQ 이전 문제 발생하여 지급 조치 한 이력 있음.
10	PCB하측 lead 길이 special 관리 모델의 경우 (예를 들어 2.0mm 관리 품) H/Sink, wafer, 각종 부품 도면 받아서 lead 길이 check 할 것	O		

NOTE 4



Bypass-Diode

NOTE 5



Relay

Details Check Item		RESULT		REMARK
▶ Attachment		OK	NG	
1	 PL check List PL_280119			

Appendix 2.

WARRANTY LETTER

비사용 증명서

구분	☒ 승인용 ☐ 양산용	제출일자	2009 . 12 . 07
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협력회사				
회사명	LG 이노텍	결재	담당자	부서장
연락처	Tel 062-950-0232	성명	김 인 재	김 형 성
e-mail	ijkim@lginnotek.com	서명		

부품정보			
LG전자 P/No.	EAY60869402 EAY60869403 EAY60869405	부품제조일자	
Maker P/No.	PLHF-L923A PLHF-L923B PLHF-L923C	생산 공장	LGIT Yantai
부품명(품명)	LIPS		

당사가 납품하는 납입품 및 당사 제조 공정상 사용되는 물질이 아래 Check 항목에 대해 만족함을 증명합니다.

————— 아 래 —————

☒ ROHS 규제 6대 물질(Pb, Cd, Cr⁶⁺, Hg, PBBs, PBDEs)이 LG전자 Display 사업부 기준을 만족함

※ 아래 항목은 PCB(Printed Circuit Board)에 장착되는 부품일 경우 기록 요망

Soldering Type : ☒ Flow ☐ Reflow

최대 내열성 온도 : 260 °C 최대 내열성 시간 : 10 sec.

☒ Pb-Free Soldering (Solder Cream, Bar, Wire 모두 포함) 적용이 가능함

Note.

- 본 자료 상의 모든 기재 내용은 사실에 근거하여 작성하여야 하며, LG전자가 근거 자료를 요구 시, 관련 Data를 제출하여야 한다.
- 본 자료가 승인용으로 사용될 경우 Sample과 함께 제출하고, 양산용으로 사용될 경우 초품 입고시 제출하여야 한다.
- LG 전자 Display 사업부에 공급되는 PCB 장착 부품의 내열 기준은 다음과 같음.
Flow 부품 : 260°C/10 sec , Reflow 부품 : 250°C/10 sec