

제 품 명	LED 전원용 SMPS	COMPONENT LIST					
모 델 명	LL-10						
작 성 자	장 장 순						
NO	ITEM	PART NO	DESCRIPTION	VENDOR	Q'TY	공정 분류	LOCATION
1	OUTPUT WAFER	5267-05P YMW025-05	2.5mm 3P STRAIGHT 2.5mm 3P STRAIGHT	MOLEX 연 호	1	수	CON5
2	OUTPUT WAFER	5267-02P YMW025-02	2.5mm 2P ANGLE 2.5mm 2P ANGLE	MOLEX 연 호	1	수	CON1, CON2, CON3, CON4
3	OUTPUT WAFER	RS-485 YH-55-05	8PIN SINGLE	GANATRADE	2	수	CON6, CON7
4	INPUT WAFER	SA1-9SC-P HP-950SA(3P)	3.96mm 3P, STRAIGHT 3.96mm 3P, STRAIGHT	MOLEX 연 호	1	수	CN1
5	X-CAP	CMPP AC275V 104K PCX2 337 PX104KIC2	AC275V 104 15mm AC275V 104 15mm AC275V 104 15mm	SUNGHO PILKOR CARLI	2	수	C1,2
6	Y-CAP	AC250V 102M(SD) DA2GYE102MBKCO4	AC250V 102M(SD) AC250V 102M(SD)	NETRON DONGIL	3	수	C5,6,8
7	CAP-CERAMIC	CK B 101K 1KV	101K 1KV	뉴콘 SAMWON/NECTRON	1	R	C32
8	CAP-CERAMIC	CK B 102K 1KV	1KV 102K	뉴콘 SAMWON/NECTRON	1	R	C34
9	CAP-CERAMIC	224K 50V TAPPING	50V 224K TAPPING	MYUNG-SUNG SUNGHO	1	R	C12
10	CAP-CERAMIC	33P 50V TAPPING	50V 33p TAPPING	MYUNG SUNG SUNGHO	1	R	C13
11	CAP-MPP	MPP684J, 630V MPP684J, 630V	630V 684 630V 684	MYUNG SUNG SUNGHO	1	수	C7
12	CAP-MPP	MT 103J 630V MT 103J 630V	630V 103 PE 630V 684	MYUNG SUNG SUNGHO	1	수	C31
13	CAP-MYLAR	PE 473J	473J, 100V	SAMWHA SUNGHO	2	R	C11,58
14	CAP-MYLAR	PE 104J	104J, 100V	SAMWHA SUNGHO	1	R	C35
15	CAP-ELECT	RH 450V 100uF RH 450V 68uF NFC 450V 100uF NFC 450V 68uF	105℃ 18*36 105℃ 18*36 105℃ 18*36 105℃ 18*36	SAMWHA SAMWHA SAMYOUNG SAMYOUNG	1	수	C3
16	CAP-ELECT	HW 50V 33uF RD 50V 33uF KMG 50V 33uF	105℃ 5*11 105℃ 5*11 105℃ 5*11	G.LUXON SAMWHA SAMYOUNG	2	R	C15
17	CAP-ELECT	HW 50V 10uF RD 50V 10uF KMG 50V 10uF	105℃ 5*11 105℃ 5*11 105℃ 5*11	G.LUXON SAMWHA SAMYOUNG	5	R	C33,C60,C61,C62,C63
18	CAP-ELECT	HW100V 47uF RD 100V 47uF KMG 100V 47uF	105℃ 10*12.5 105℃ 10*12.5 105℃ 10*12.5	G.LUXON SAMWHA SAMYOUNG	2	R	C53,54
19	CAP-ELECT	RD 100V 68uF KMG 100V 68uF HW 100V 68uF	105℃ 10*16 105℃ 10*16 105℃ 10*16	SAMWHA SAMYOUNG G.LUXON	2	R	C51,52
20	CAP-ELECT	RD 25V 1,000uF KMG 25V 1,000uF 25V 1,000uF	105℃ 10*12.5 105℃ 10*12.5 105℃ 10*12.5	SAMWHA SAMYOUNG G.LUXON	1	R	C55
21	CAP-ELECT	HW 50V 1uF KMG 50V 1uF RD 50V 1uF	105℃ 5*11 105℃ 5*11 105℃ 5*11	G.LUXON SAMYOUNG SAMWHA/SAMYOUNG	1	R	C56

NO	ITEM	PART NO	DESCRIPTION	DESCRIPTION	Q'TY	공정 분류	LOCATION
22	CAP-ELECT	HW 16V 220uF	105℃ 6.3*11	G.LUXON	1	R	C57
		RD 16V 220uF	105℃ 6.3*11	SAMWHA			
		KMG 16V 220uF	105℃ 6.3*11	SAMYOUNG			
23	BRIDGE-DIODE	RS405	600V , 4A	RECTRON	1	수	BD1
		GBJ406	600V , 4A	KD			
		BJ-06	600V , 4A	TSC			
24	RECT-DIODE	1N4937	600V , 1A	DIODE/RECTRON	1	A	D15
		1N4937	600V , 1A	TSC/PCTRONIX			
25	UF-DIODE	UF5408	1000V 3A	DIODE/RECTRON	2	수	D31, 37
		UF5408	1000V 3A	TSC/PCTRONIX			
26	UF-DIODE	UF4004	400V , 1A	DIODE/RECTRON	3	A	D32, 33, 52
		UF4004	400V , 1A	TSC/PCTRONIX			
27	UF-DIODE	FSU10A60	600V 10A	N.I	1	수	D53
		FSU10U60	600V 10A	N.I			
		FMG-26S,R	600V 10A	SANKEN			
28	UF-DIODE	FSU10A40	400V 10A	N.I	1	수	D51
		FSU10U60	600V 10A	N.I			
		FMG-26S,R	600V 10A	SANKEN			
29	SWITCHING-DIODE	1N4148	40V 500mA	DIODE/RECTRON	2	A	D1, 14
		1N4148	40V 500mA	TSC/PCTRONIX			
30	ZENER-DIODE	1N5248	18V 500mW	DIODE/RECTRON	2	A	D13, 34
		1N5248	18V 500mW	TSC/PCTRONIX			
31	ZENER-DIODE	1N5252	24V 500mW	DIODE/RECTRON	1	A	D2
		1N5252	24V 500mW	TSC/PCTRONIX			
32	FUSE-CERAMIC	215315XEP	T3.15AL 250VAC	LITTELFUSE	1	수	F1
		56T 3.15A	T3.15AL 250VAC	ORISEL			
33	PFC IC	FAN7530	650V SMD 8PIN	FAIRCHILD	1	SMD	IC11
34	SWITCHING IC	FSCQ0765RB	650V 7A	FAIRCHILD	1	수	IC31
		FSCQ1265RT	650V 12A	FAIRCHILD			
35	SHUNT IC	SL431	37V, Ref 2.5V 1% TO-92	AUK	1	R	IC3
		KA431A	37V, Ref 2.5V 1% TO-92	FAIRCHILD			
		IK431	37V, Ref 2.5V 1% TO-92	IK SEMI			
36	PHOTO-COUPLER	PC17K1	VCEO=60V, 10.16mm, 130~260%	KODENSHI	2	수	PT1, 2
		H11A817B	VCEO=60V, 10.16mm, 130~260%	FAIRCHILD			
		K1010 B	VCEO=60V, 10.16mm, 130~260%	COSMO			
37	RES-MOR	2W 680K MINI	2W 680K TAPPING MINI	ABCO	1	A	R32
				JEIL			
38	RES-MOR	2W 47K MINI	2W 47K TAPPING MINI	ABCO	1	A	R31
				JEIL			
39	RES-CARBON	1/4W 100	1/4W 100 TAPPING	ABCO	1	A	R33
				JEIL			
40	RES-CARBON	1/4W 10	1/4W 10 TAPPING	ABCO	1	A	R36
				JEIL			
41	RES-MOR	1W 10K	1W 10K TAPPING	ABCO	1	A	R37, R38
				JEIL			
42	RES-CARBON	1/4W 200	1/4W 200 TAPPING	ABCO	1	A	R22
				JEIL			
43	RES-CARBON	1/8W 1K	1/8W 1K TAPPING	ABCO	5	A	R23, 34, 35, 51, 52
				JEIL			
44	RES-CARBON	1/4W 1K	1/4W 1K TAPPING	ABCO	1	A	R61
				JEIL			
45	RES-CARBON	1/8W 200K	1/8W 200K TAPPING	ABCO	4	A	R18, 19, 20, 21
				JEIL			

NO	ITEM	PART NO	DESCRIPTION	DESCRIPTION	Q'TY	공정 분류	LOCATION
46	RES-CARBON	1/8W 240K	1/8W 240K TAPPING	ABCO JEIL	2	A	R13,17
46	RES-CARBON	1/8W 6.8K	1/8W 6.8K TAPPING	ABCO JEIL	2	A	R16,25
47	RES-CARBON	1/8W 100K	1/8W 100K TAPPING	ABCO JEIL	1	A	R24
48	RES-CARBON	1/8W 24K	1/8W 24K TAPPING	ABCO JEIL	1	A	R12
49	RES-CARBON	1/8W 10K	1/8W 10K TAPPING	ABCO JEIL	3	A	R11,26,54
50	RES-CARBON	1/8W 20K	1/8W 20K TAPPING	ABCO JEIL	1	A	R14
51	RES-CARBON	1/8W 27	1/8W 27 TAPPING	ABCO JEIL	1	A	R15
52	RES-CARBON	1/8W 3.3K	1/8W 3.3K TAPPING	ABCO JEIL	1	A	R53
53	RES-CARBON	1/8W 12K	1/8W 12K TAPPING	ABCO JEIL	1	A	R58
54	RES-M.F	1/8W 2.4KF	1/8W 2.2KF TAPPING	ABCO JEIL	1	A	R57
55	RES-M.F	1/8W 40KF	1/8W 40KF TAPPING	ABCO JEIL	1	A	R56
56	RES-MPR	5W 0.15	5W 0.15 R-TYPE	PILKOR/ABCO JEIL	1	수	R2
57	REGULATOR-IC	KA7805	1A 5V LOW-DROP	FAIRCHILD KEC	1	수	IC4
58	THERMISTOR	5D15 5D15	240Vac 5A 15Φ, 5Ω 240Vac 5A 15Φ, 5Ω	DSC SAMKYUNG	1	수	TH1
59	MOSFET	F11NM60N FQP10N60C	11A 600V 9.5A 600V	ST FAIRCHILD	1	수	Q11
60	TR-NPN	KTD1347	50V 3A TO-92L	KEC	1	수	Q12
61	TR-NPN	KSP2222A	40V 600mA TO-92	FAIRCHILD	1	수	Q51
62	BAR-COIL	5*20 2.2uH	5*20 2.2uH	DAWON HAN'S ELEC	1	수	L2
63	LINE FILTER	UD035080	UU11*16 20mH	DAWON	2	수	LF1,2
64	TRANSFOMER	URP80M(EER2834 H-TYPE)	URP80M(EER2834 H-TYPE)	DAWON	1	수	T1
65	PFC COIL	QHAD01250(EER3124)	300uH(EER3124)	DAWON	1	수	L1
66	HEAT SINK	HS502510-2	50mm HOLE*2	부흥금속	1	수	HS1,HS2,HS3
67	SCREW	3*8 MACHINE	3*8 MACHINE		4	수	FOR HS1,2,3
68	JUMPER	JUMPER 15mm	JUMPER 15mm	ANY	17	A	J1,2,4,6-8,j10~j21,L4
71	JUMPER				2	A	J3,J4 (DRIVE OPTION)
69	PCB	CEM-1(150*75)1.6T	CEM-1(210*110)1.6T	이산전자	1	수	(215mm X 100mm)
70	VARISTOR	CNR10D471K SVC10D471 TNR10471k	10Φ .470V 7.5mm Pitch 10Φ .470V 7.5mm Pitch 10Φ .470V 7.5mm Pitch	CENTRA SAMWHA THINKING	1	수	VT1
71							



PROJECT NAME		LL-10	PARTS LIST		ORG		CHK	
ISSUE DATE		2010. 10. 28			APPD		APPD	
PRODUCT NAME		LL-10 SMPS DRIVER (LL-10B)			ASS`Y LVL		REV. NO.	V1.3
NO.	PART NAME	DESCRIPTION	Q`TY	LOCATION NO.	VENDOR		U/PRICE	PRICE
1	PCB	FR4, 양면 55X28.5X1.6t	1	LL-10B				
2	IC	SJ432AS	4	U10~U13				
3								
4	RESISTOR(2012)	1K	12	R21~R23,R26~R28				
5		1K		R31~R33,R36~R38				
6		4.7K	1	R20				
7		10	4	R24,R29,R34,R39				
8		12	4	R25,R30,R35,R40				
9		47K	4	R11~R14				
10		10K	4	R15~18				
11								
12	CAPACITOR(2012)	1uF	4	C10,C11,C12,C13				
13	CAPACITOR(TANTAL)	10uF/50V	1	C14				
14								
15	FET	SNN5010D	4	Q2,Q4,Q6,Q8				
16	TR(SMD)	MMBT2222LTIG	8	Q1,Q3,Q5,Q7,Q9~Q12				
17	CONNECTOR(2.5mm)	11PIN	1	CON4				
18								
19	ZENER DIODE(SOD-123)	5.1V	4	D15~18				
20	ZENER DIODE(SOD-123)	24V	4	D11~14				
21								
22								
23								
24					SUB-TOTAL			
25				\$1=1,200	TOTAL			

PROJECT NAME		LL-10	PARTS LIST			ORG		CHK	한재현
ISSUE DATE		2010. 12. 22				APPD		APPD	한재현
PRODUCT NAME		LL-10 SMPS CONTROLLER (LL-10A)				ASS`Y LVL		REV. NO.	V1.3
NO.	PART NAME	DESCRIPTION	Q`TY	LOCATION NO.	VENDOR		U/PRICE	PRICE	
1	PCB	FR4,양면 70X28.5X1.6t	1	LL-10A V1.3					
2	IC	PIC16F724TQFP	1	U1					
3		DS75176B	1	U2					
4	RESISTOR(3216)	4.7Kohm	24	1~22,R2,R4					
5		10Kohm	1	R1					
6		1Kohm	5	R3,R5~R8					
7	CAPACITOR(3216)	0.1μF, CL31B104KB	1	C6					
8	CAPACITOR(TANTAL)	10uF/50V	1	C1	TCSCS1E106MBA				
9	CONNECTOR	4PIN	1	CON2					
10		11PIN ,H/P R/A 1*11	1	CON3					
11	SWITCH(DIP)	KSPA52	1	SW1	OTKSP05H Piano				
12		KSPA82	1	SW2					
13	THERMISTOR (NTC)	103KT1608	1	TH1(DSC103)					
계			40						

ITEM	Qty	Part	Component	Descripton	비고
1	1	MIC5219-3.3BM5 (SOT-23-5 Type)	REG1	LDO Regulator	
2	2	SN74LVC1G125_DCK (SC_70 Type)	U1,U2	Buffer	
3	1	ATmega8A (32PIN TQFP Type)	U3	MCU	
4	1	MMSD418 (SOD_123 Type)	D4	DIODE	
5	1	HDS404 (SMD 1.27 Type)	SW1	SMD Switch	
6	1	CC1101 (QLP 20PIN Type)	U4	Tranceiver Chip	
7	1	5268-04 (2.5mm Pitch Right Angle Type)	J1	Connector	THD
8	1	12505WR-06	J3	Connector	
9	1	A7031-110 (SMA PCB RECEPTACLE RIGHT ANGLE JACK)	S1	RF Connector	THD
10	1	SBX-11 HC-49/S_7.3728MHz (LEAD Type)	X1	X-TAL	THD
11	1	DSB321SCA_3225 TCXO	Y1	TCXO	
12	10	0603X7R104KCT,1608,100nF	C2,C5,C6,C7,C8,C10,C13,C14,C15,C16	C1608	
13	2	0603X7R103KCT,1608,10nF	C9,C24	C1608	
14	1	0603X7R105KCT,1608,1uF	C23	C1608	
15	2	0603C0G220JTL,1608,22pF,5%	C3,C4	C1608	
16	2	0603C0G221JTL,1608,220pF,5%	C21,C22	C1608	
17	4	0603C0G3R9DLT,1608,3.9pF,0.5%	C17,C18,C19,C20	C1608	
18	1	0603C0G471JTL,1608,470pF,5%	C1	C1608	
19	1	MLG0603S22NHT,1608,22nH,3%	L4	L1608	
20	3	MLG0603S27NHT,1608,27nH,3%	L1,L2,L3	L1608	
21	5	WR06X0R0_JTL,1608,0R	R1,R2,R3,R4,R5	R1608	
22	1	WR06X103_JTL,1608,10KΩ	R8	R1608	
23	3	WR06X472_JTL,1608,4.7KΩ	R9,R10,R11	R1608	
24	1	WR06X563_JTL,1608,56KΩ	R12	R1608	
25	5	TCSCN1A106MAAR (10uF/10V,3216)	TC1,TC2,TC3,TC4,TC5	TANTAL	