

PART LIST		PROJECT		TRANSMITTER		MODEL NAME		MutichargerTX		DATE		SHEET	
		ASS'Y NAME		RF ASS'Y		FREQUENCY		PLL		2009/6/11		1/3	
		관리 번호		LTKT-PL-MCT-01		특이 사항		RF					
NO.	PARTS DESCRIPTION	PART NUMBER		Q'TY	UM	LOCATION NO.		VENDOR NAME		REMARK			
1	IC	CC1070		1	EA	U109		CHIPCON					
2	Swiching REGULATOR	S5233M		1	EA	U110							
3	FET	2SK3079A		2	EA	Q107,Q108		Tohsiba					
4	TR	2SC3356(R25)		1	EA	Q106		NEC					
5	CHIP IND 12nH	0805CS-120EMPS		1	EA	L108,		FASTRON					
6	CHIP IND 15nH	0805CS-150EMPS		5	EA	L105,L106,L109,L110,L111		FASTRON					
7	CHIP IND 27nH	0805CS-270EMPS		2	EA	L101,L104		FASTRON					
8	CHIP IND 47nH	0805CS-470EMPS		1	EA	L103		FASTRON					
9	CHIP IND 56nH	0805CS-560EMPS		2	EA	L102,L107		FASTRON					
10	CAP CHIP TANTAL 10uF/6V	106/6.3V 'A'		2	EA	EC114,EC116		AVX(ELMA)					
11	CAP CHIP TANTAL 22uF/6V	226/6.3V 'A'		2	EA	EC113,EC115		AVX(ELMA)					
12	CAP CHIP TRIMMER 20pF	TZC03Z200A110T00		1	EA	TC101		PANASONIC					
13	CAP CHIP 1.5pF(2012 TYPE)	50V V0.25% 1.5P		1	EA	C186		MURATA					
14	CAP CHIP 2pF(2012 TYPE)	50V V0.25% 2P		1	EA	C184		MURATA					
15	CAP CHIP 3pF(2012 TYPE)	50V V0.25% 3P		3	EA	C185,C188,C189		MURATA					
16	CAP CHIP 8pF(2012 TYPE)	50V V0.25% 8P		1	EA	C190		MURATA					
17	CAP CHIP 1pF	GRM1885C1H1R0CZ01D		2	EA	C172,C174		MURATA					
18	CAP CHIP 3pF	GRM1885C1H3R0CZ01D		2	EA	C152,C158,		MURATA					
19	CAP CHIP 4pF	GRM1885C1H4R0CZ01D		2	EA	C148,C168,		MURATA					
20	CAP CHIP 5pF	GRM1885C1H5R0CZ01D		2	EA	C139,C169,		MURATA					
21	CAP CHIP 6pF	GRM1885C1H6R0CZ01D		1	EA	C175		MURATA					
22	CAP CHIP 8pF	GRM1885C1H8R0CZ01D		1	EA	C150		MURATA					
23	CAP CHIP 10pF	GRM1885C1H100CZ01D		1	EA	C159		MURATA					
24	CAP CHIP 18pF	GRM1885C1H180CZ01D		1	EA	C160		MURATA					
25	CAP CHIP 33pF	GRM1885C1H330CZ01D		2	EA	C161,C176		MURATA					

PART LIST				PROJECT	TRANSMITTER	MODEL NAME	Multicharger TX	DATE	SHEET
				ASS'Y NAME	RF ASS'Y	FREQUENCY	PLL	2009/6/11	2/3
				관리 번호	LTKT-PL-MCT-01	특이 사항	RF		
NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.	VENDOR NAME	REMARK		
26	CAP CHIP 47pF	GRM1885C1H470CZ01D	1	EA	C142	MURATA			
27	CAP CHIP 68pF	GRM1885C1H680CZ01D	2	EA	C143,C144	MURATA			
28	CAP CHIP 120pF	GRM1885C1H121CZ01D	1	EA	C181	MURATA			
29	CAP CHIP 220pF	GRM188R71H221KA01D	2	EA	C156,C132	MURATA			
30	CAP CHIP 330pF	GRM188R71H331KA01D	2	EA	C162,C177	MURATA			
31	CAP CHIP 1000pF	GRM188R71H102KA01D	10	EA	C134,C135,C138,C141,C165,C171 C180,C182,C191,C192	MURATA			
32	CAP CHIP 2200pF	GRM188R71H222KA01D	1	EA	C145	MURATA			
33	CAP CHIP 8200pF	GRM188R71H822KA01D	1	EA	C147	MURATA			
34	CAP CHIP 0.01uF	GRM188R71H103KA01D	3	EA	C137,C140,C153	MURATA			
35	CAP CHIP 0.1uF	GRM188R71H104KA01D	10	EA	C130,C131,C133,C136,C154,C164 C166,C170,C178,C179,	MURATA			
36	CAP CHIP 0.22uF	GRM188R71H224KA01D	1	EA	C146	MURATA			
37	RES CHIP 10Ω	MCR03EZHX100	2	EA	R168,R171	ROHM			
38	RES CHIP 22Ω	MCR03EZHX220	1	EA	R164	ROHM			
39	RES CHIP 33Ω	MCR03EZHX330	1	EA	R158	ROHM			
40	RES CHIP 330Ω	MCR03EZHX331	1	EA	R157	ROHM			
41	RES CHIP 1KΩ	MCR03EZHX102	11	EA	R146,R147,R148,R149,R150,R151 R152,R153,R154,R155,R163	ROHM			
42	RES CHIP 1.5KΩ	MCR03EZHX152	1	EA	R160	ROHM			

PART LIST											
PROJECT		TRANSMITTER		MODEL NAME		Multicharger TX		DATE		SHEET	
ASS'Y NAME		RF ASS'Y		FREQUENCY		PLL		2009/6/11		3/3	
관리 번호		LTKT-PL-MCT-01		특이 사항		RF					
NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.	VENDOR NAME	REMARK				
43	RES CHIP 2.7KΩ	MCR03EZHJX272	1	EA	R161	ROHM					
44	RES CHIP 4.7KΩ	MCR03EZHJX472	2	EA	R159,R165	ROHM					
45	RES CHIP 10KΩ	MCR03EZHJX103	1	EA	R172	ROHM					
46	RES CHIP 27KΩ	MCR03EZHJX273	2	EA	R167,R170	ROHM					
47	RES CHIP 56KΩ	MCR03EZHJX563	2	EA	R166,R169	ROHM					
48	RES CHIP 82KΩ	MCR03EZHJX823	1	EA	R156	ROHM					
49	AIR COIL	내경 4Ø 2.5T	2	EA	L113,L116	승우스프링	수납				
50	AIR COIL	내경 4Ø 3.5T	2	EA	L114,L115,	승우스프링	수납				
51	AIR COIL	내경 4Ø 5.5T	1	EA	L112	승우스프링	수납				
52	DTCXO(DX-5-2.0D3)	14.745600MHz	1	EA	Y104	SHINSUNG					
53	BNC-RB PCB용	BNCJ-R/A-L-PCB	1	EA	CON109	성진정보통신	수납				
54	SHIELD CASE(전면)	0.5W 用(신형)	1	EA		서진기업사	수납				
55	SHIELD CASE(후면)	2.5W 用	1	EA		서진기업사	수납				

PART LIST		PROJECT	TRANSMITTER	MODEL NAME	Multicharger TX	DATE	SHEET
ASS'Y NAME		LOGIC ASS'Y		FREQUENCY	PLL	2009/6/11	1/3
관리 번호		LTKT-PL-MCT-01		특이 사항	Main		

*Multicharger TX IQ/G3/Slim에서 connector con105와 con106을 제외한 모든 connector는 삽입한다.
 (con5는 IQ만 삽입, con106은 Slim만 삽입, G3는 con106 삽입 과 con105(16Pin)에 6Pin connector를 정방향에서 우측방향으로 삽입한다.)
 *이번 작업에서 RX부분은 제외됩니다. (EC110, con108, C126,D107,D108,D109,R120,R122는 제외NC 처리합니다)

NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.	VENDOR NAME	REMARK
1	PCB	2-LEAYER 1.6T	1	EA	LTKTC-MCT-2009T_REV1.2 090603	jandcircuit	
2	IC CPU	PIC18F8722-1/PT	1	EA	U101	MICROCHIP	
3	IC CPU	PIC18F4620	1	EA	U104	MICROCHIP	
4	IC CPU	CP2102	1	EA	U105	SiLab	
5	IC EEPROM	24LC02B	1	EA	U102	MICROCHIP	
6	IC CLOCK	DS1302S	1	EA	U103	DALLAS	
7	REGULATOR	MC7805CT	2	EA	U108, U107	MOTOROLA	수납
8	REGULATOR	S7805D(SMD type)	1	EA	U106	KEC	
9	TR	KTN2907AS(SOT-23)	1	EA	Q103	KEC	
10	TR	KRC114	4	EA	Q101, Q102, Q104, Q105	KEC	
11	CHIP DIODE	MA111	4	EA	D110, D111, D112, D113		
12	CHIP DIODE	1SR-154-400	6	EA	D101,D102,D103,D104,D105,D106 D107(NC),D108(NC),D109(NC)	서울 반도체	
13	DIODE LED	RED COLOR(L-C191KRCT)	1	EA	LED101		
14	CAP ELECTRIC 220uF/25V	220uF/25V	3	EA	EC101, EC103, EC105	SAM YOUNG	수납
15	CAP ELECTRIC 470uF/10V	470uF/10V	4	EA	EC102, EC104, EC106, EC107	SAM YOUNG	수납
16	CAP TANTAL 1uF/6V	ECSTOGY105R	1	EA	EC112	AVX(ELMA)	
17	CAP TANTAL 10uF/6V	ECSTOGY106R	3	EA	EC108, EC109, EC111	AVX(ELMA)	
18	CAP TANTAL 22uF/6V	ECSTOGY226R	0	EA	EC110(NC)	AVX(ELMA)	
19	COIL BEAD	BEAD 3550	4	EA	BLF101,BLF102,BLF103,BLF104	세일반도체	수납

PART LIST									
PROJECT		TRANSMITTER	MODEL NAME		Multicharger TX	DATE	SHEET		
ASS'Y NAME		LOGIC ASS'Y	FREQUENCY		PLL	2009/6/11	2/3		
관리 번호		LTKT-PL-MCT-01	특이 사항		Main				
NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.	VENDOR NAME	REMARK		
20	CAP CHIP 12pF	GRM1885C1H120JA01D	2	EA	C117,C118	MURATA			
21	CAP CHIP 27pF	GRM1885C1H270JA01D	2	EA	C110,C122	MURATA			
22	CAP CHIP 33pF	GRM1885C1H330JA01D	2	EA	C123,C111	MURATA			
23	CAP CHIP 100pF	GRM1885C1H101JA01D	1	EA	C119	MURATA			
24	CAP CHIP 0.1uF	GRM188R71H104KA01D	18	EA	C101,C102,C103,C104,C105,C106,C107,C109,C112,C113,C114,C115,C116,C121,C124,C127,C128,C129	MURATA			
25	CAP CHIP 1uF	GRM188R71H105KA01D	3	EA	C108,C120,C125,C126(NC)	MURATA			
26	RES CHIP 470Ω	MCR03EZHXJ471	5	EA	R105,R106,R107,R108,R119	ROHM			
27	RES CHIP 1KΩ	MCR03EZHXJ102	11	EA	R101,R103,R104,R109,R117,R118,R124,R142,R143,R144,R145	ROHM			
28	RES CHIP 4.7KΩ	MCR03EZHXJ472	1	EA	R123	ROHM			
29	RES CHIP 10KΩ	MCR03EZHXJ103	5	EA	R111,R114,R115,R122,R162	ROHM			
30	RES CHIP 22KΩ	MCR03EZHXJ223	1	EA	R112	ROHM			
31	RES CHIP 68KΩ	MCR03EZHXJ683	1	EA	R113	ROHM			
32	RES CHIP 100KΩ	MCR03EZHXJ104	2	EA	R121,R125	ROHM			
33	RES CHIP 1MΩ	MCR03EZHXJ105	2	EA	R102,R116	ROHM			
34	RES CARBON(DIP)	CARBON 39Ω 1/2W	1	EA	R110	DAE HO	수납		
35	RES CARBON(DIP)	CARBON 100Ω 1/4W	1	EA	R110S	DAE HO	수납		

PART LIST		PROJECT		TRANSMITTER	MODEL NAME		Multicharger TX	DATE	SHEET
		ASS'Y NAME		LOGIC ASS'Y	FREQUENCY		PLL	2009/6/11	3/3
		관리 번호		LTKT-PL-MCT-01	특이 사항		Main		
NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.		VENDOR NAME		REMARK
36	X-TAL	10MHz(49/S TYPE)	2	EA	Y101,Y103				수납
37	X-TAL	32.768KHz	1	EA	Y102				수납
38	BATTERY(LITHUM CELL)	CR2032(?)	1	EA	BATT1		PANASONIC		수납
39	POWER DC JACK	DC ADAPTOR JACK(2 phi)	1	EA	AJ101				수납
40	POWER DC JACK	DC ADAPTOR JACK(1.3 phi)	1	EA	AJ102				수납
41	CONNECTOR(USB PIN)	MINE 5 USB	1	EA	CON101				
42	CONNECTOR(HEAD 16PIN)	16PIN (5268-16PIN S/T)	1	EA	CON103				수납
43	CONNECTOR(HEAD 16PIN)	16PIN (5268-16PIN S/T)	1	EA	CON105				수납
44	CONNECTOR(HEAD 14PIN)	14PIN (5268-14PIN S/T)	1	EA	CON104				수납
45	CONNECTOR(HEAD 6PIN)	6PIN WAFER 5267-06P(S/T)	3	EA	CON102,CON106,CON107		창우전자		수납
46	CONNECTOR(HEAD 8PIN)	2400-DD3.5-08P	0	EA	CON108(NC)		우리전자산업		수납
47	BUZZER	SM-1205C	1	EA	BZ101		세일반도체		수납
48	HEAT SINK		2	EA			동진 ELC		수납
49	BOLT		2	EA			동진 ELC		수납
50	NUT		2	EA			동진 ELC		수납

[illegible]

PART LIST		PROJECT	TRANSMITTER	MODEL NAME	Multicharger TX	DATE	SHEET
ASS'Y NAME		LOGIC ASS'Y		FREQUENCY	PLL	2009/6/11	1/3
관리 번호		LTKT-PL-MCT-01		특이 사항	Main		

*Multicharger TX IQ/G3/Slim에서 connector con105와 con106을 제외한 모든 connector는 삽입한다.
 (con5는 IQ만 삽입, con106은 Slim만 삽입, G3는 con106 삽입 과 con105(16Pin)에 6Pin connector를 정방향에서 우측방향으로 삽입한다.)
 *이번 작업에서 RX부분은 제외됩니다. (EC110, con108, C126,D107,D108,D109,R120,R122는 제외NC 처리합니다)

NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.	VENDOR NAME	REMARK
1	PCB	2-LEAYER 1.6T	1	EA	LTKTC-MCT-2009T_REV1.2 090603	jandcircuit	
2	IC CPU	PIC18F8722-1/PT	1	EA	U101	MICROCHIP	
3	IC CPU	PIC18F4620	1	EA	U104	MICROCHIP	
4	IC CPU	CP2102	1	EA	U105	SiLab	
5	IC EEPROM	24LC02B	1	EA	U102	MICROCHIP	
6	IC CLOCK	DS1302S	1	EA	U103	DALLAS	
7	REGULATOR	MC7805CT	2	EA	U108, U107	MOTOROLA	수납
8	REGULATOR	S7805D(SMD type)	1	EA	U106	KEC	
9	TR	KTN2907AS(SOT-23)	1	EA	Q103	KEC	
10	TR	KRC114	4	EA	Q101, Q102, Q104, Q105	KEC	
11	CHIP DIODE	MA111	4	EA	D110, D111, D112, D113		
12	CHIP DIODE	1SR-154-400	6	EA	D101,D102,D103,D104,D105,D106 D107(NC),D108(NC),D109(NC)	서울 반도체	
13	DIODE LED	RED COLOR(L-C191KRCT)	1	EA	LED101		
14	CAP ELECTRIC 220uF/25V	220uF/25V	3	EA	EC101, EC103, EC105	SAM YOUNG	수납
15	CAP ELECTRIC 470uF/10V	470uF/10V	4	EA	EC102, EC104, EC106, EC107	SAM YOUNG	수납
16	CAP TANTAL 1uF/6V	ECSTOGY105R	1	EA	EC112	AVX(ELMA)	
17	CAP TANTAL 10uF/6V	ECSTOGY106R	3	EA	EC108, EC109, EC111	AVX(ELMA)	
18	CAP TANTAL 22uF/6V	ECSTOGY226R	0	EA	EC110(NC)	AVX(ELMA)	
19	COIL BEAD	BEAD 3550	4	EA	BLF101,BLF102,BLF103,BLF104	세일반도체	수납

PART LIST									
PROJECT		TRANSMITTER	MODEL NAME		Multicharger TX	DATE	SHEET		
ASS'Y NAME		LOGIC ASS'Y	FREQUENCY		PLL	2009/6/11	2/3		
관리 번호		LTKT-PL-MCT-01	특이 사항		Main				
NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.	VENDOR NAME	REMARK		
20	CAP CHIP 12pF	GRM1885C1H120JA01D	2	EA	C117,C118	MURATA			
21	CAP CHIP 27pF	GRM1885C1H270JA01D	2	EA	C110,C122	MURATA			
22	CAP CHIP 33pF	GRM1885C1H330JA01D	2	EA	C123,C111	MURATA			
23	CAP CHIP 100pF	GRM1885C1H101JA01D	1	EA	C119	MURATA			
24	CAP CHIP 0.1uF	GRM188R71H104KA01D	18	EA	C101,C102,C103,C104,C105,C106,C107,C109,C112,C113,C114,C115,C116,C121,C124,C127,C128,C129	MURATA			
25	CAP CHIP 1uF	GRM188R71H105KA01D	3	EA	C108,C120,C125,C126(NC)	MURATA			
26	RES CHIP 470Ω	MCR03EZHX471	5	EA	R105,R106,R107,R108,R119	ROHM			
27	RES CHIP 1KΩ	MCR03EZHX102	11	EA	R101,R103,R104,R109,R117,R118,R124,R142,R143,R144,R145	ROHM			
28	RES CHIP 4.7KΩ	MCR03EZHX472	1	EA	R123	ROHM			
29	RES CHIP 10KΩ	MCR03EZHX103	5	EA	R111,R114,R115,R122,R162	ROHM			
30	RES CHIP 22KΩ	MCR03EZHX223	1	EA	R112	ROHM			
31	RES CHIP 68KΩ	MCR03EZHX683	1	EA	R113	ROHM			
32	RES CHIP 100KΩ	MCR03EZHX104	2	EA	R121,R125	ROHM			
33	RES CHIP 1MΩ	MCR03EZHX105	2	EA	R102,R116	ROHM			
34	RES CARBON(DIP)	CARBON 39Ω 1/2W	1	EA	R110	DAE HO	수납		
35	RES CARBON(DIP)	CARBON 100Ω 1/4W	1	EA	R110S	DAE HO	수납		

PART LIST		PROJECT		TRANSMITTER	MODEL NAME		Multicharger TX	DATE	SHEET
		ASS'Y NAME		LOGIC ASS'Y	FREQUENCY		PLL	2009/6/11	3/3
		관리 번호		LTKT-PL-MCT-01	특이 사항		Main		
NO.	PARTS DESCRIPTION	PART NUMBER	Q'TY	UM	LOCATION NO.		VENDOR NAME		REMARK
36	X-TAL	10MHz(49/S TYPE)	2	EA	Y101,Y103				수납
37	X-TAL	32.768KHz	1	EA	Y102				수납
38	BATTERY(LITHUM CELL)	CR2032(?)	1	EA	BATT1		PANASONIC		수납
39	POWER DC JACK	DC ADAPTOR JACK(2 phi)	1	EA	AJ101				수납
40	POWER DC JACK	DC ADAPTOR JACK(1.3 phi)	1	EA	AJ102				수납
41	CONNECTOR(USB PIN)	MINE 5 USB	1	EA	CON101				
42	CONNECTOR(HEAD 16PIN)	16PIN (5268-16PIN S/T)	1	EA	CON103				수납
43	CONNECTOR(HEAD 16PIN)	16PIN (5268-16PIN S/T)	1	EA	CON105				수납
44	CONNECTOR(HEAD 14PIN)	14PIN (5268-14PIN S/T)	1	EA	CON104				수납
45	CONNECTOR(HEAD 6PIN)	6PIN WAFER 5267-06P(S/T)	3	EA	CON102,CON106,CON107		창우전자		수납
46	CONNECTOR(HEAD 8PIN)	2400-DD3.5-08P	0	EA	CON108(NC)		우리전자산업		수납
47	BUZZER	SM-1205C	1	EA	BZ101		세일반도체		수납
48	HEAT SINK		2	EA			동진 ELC		수납
49	BOLT		2	EA			동진 ELC		수납
50	NUT		2	EA			동진 ELC		수납

[illegible]