

No.	Qty	Reference	Part number	Description	Specification	Manufacturer	Note
1	1	CN1	PPPC062LJBN-RC	Connector	2x6pin,2.54mm pitch,DIP	Sullins	
2	0		FFC-42BMEP1	Connector	-		Unmounted
3	1	CN3	282868-3	Connector	2x3pin,5.00mm pitch,DIP	TE	
4	1	CN4	250-702	Connector	2x2pin,5.00mm pitch,DIP	WAGO	
5	1	CN5	UX60SC-MB-5ST(80)	Connector	Mini-USB RCP 5 POS 0.8mm	HIROSE	
6	1	CN6	7614-6002	Connector	2x7pin,2.54mm pitch,DIP	3M	
7	0						
8	13	C2,C7,C15,C26,C27,C28,C29,C32,C33,C34,C35,C36,C38	CC0402JRX7R7BB104	Ceramic Capacitor	xxxF/3225		Unmounted
9	1	C3	CC0603JRX7R6BB474	Ceramic Capacitor	0.1uF/1005	Yageo	
10	1	C4	CC0402JPNP09BN101	Ceramic Capacitor	0.47uF/1005	Yageo	
11	2	C30,C5	CC0402JPX7R9BB104	Ceramic Capacitor	100pF/50V	Yageo	
12	1	C6	CC0603JPX7R9BB104	Ceramic Capacitor	0.1uF/50V	Yageo	
13	2	C9,C8	UHE1A681MPD1TD	Aluminium Capacitor	680uF/10V	NICHICON	
14	1	C10	EMK325B7226KM-PR	Ceramic Capacitor	22uF/16V	Taiyo Yuden	
15	3	C11,C16,C17	12065D106KAT2A	Ceramic Capacitor	10uF/50V	KYOCERA AVX	
16	1	C12	UMK107BJ105KA-T	Ceramic Capacitor	1uF/50V	Taiyo Yuden	
17	1	C13	UPS1H471MHD1TO	Aluminium Capacitor	470uF/50V	NICHICON	
18	1	C14	CC0402JRNPO9BN470	Ceramic Capacitor	47pF/50V	Yageo	
19	1	C18	CC0603JRX7R7BB224	Ceramic Capacitor	0.22uF/16V	Yageo	
20	1	C19	LMK105BJ225KV-F	Ceramic Capacitor	2.2uF/10V	Taiyo Yuden	
21	2	C31,C20	04023A151JAT2A	Ceramic Capacitor	150pF/25V	KYOCERA AVX	
22	1	C37	TMK212ABJ475KG-T	Ceramic Capacitor	4.7uF/25V	Taiyo Yuden	
23	1	D1	CC0402JRX7R8BB103	Ceramic Capacitor	10nF/1005	Yageo	
24	1	D2	RB168MM150	Schottky Diode	150V,1A	ROHM	
25	0	D3,D4	S1NB60-7062	Bridge Diode	600V,30A	SHINDENGEN	
26	2	D5,D8	RB520S30.115	Schottky Diode	30V,200mA	Nexperia	Unmounted
27	1	D6	PMEG4005EGWX	Schottky Diode	40V,500mA	Nexperia	
28	2	D9,D7	BAS20HT1G	Switching Diode	250V,200mA	ON Semiconductor	
29	1	D10	PMEG1020EH.115	Schottky Diode	10V,2A	Nexperia	
30	1	D11	RCLAMP0502BATCT	Zener Diode	ESD Suppressors / TVS Diodes Low	SEMTECH	
31	1	FU1	1SS226-TP	Diode	80V,100mA	Micro Commercial	
32	2	JP2,JP1	SF-0603F050-2	Fuse	500mA	BOURNS	
33	1	JP3	FFC-2AMEP1	Connector	2pin,2.54mm pitch,DIP	HONDA	
34	1	J1	FFC-3AMEP1	Connector	3pin,2.54mm pitch,DIP	HONDA	
35	1	LED1	PJ-018H	DC-Jack	DC Power Connectors Power Jacks	CUI DEVICES	
36	1	LED2	SID1050CM	LED	Red	SANKEN	
37	1	LED3	WP710A10ID	LED	Red	Kingbright	
38	1	LED4	WP710A10GD	LED	Green	Kingbright	
39	1	LED5	WP710A10QBC/D	LED	Blue	Kingbright	
40	1	L1	SML-E12M8W	LED	1608, Yellow-Green	ROHM	
41	1	L2	LQH43MN102K03#	Inductor	1mH	MURATA	
42	1	L3	NR6028T220M	Inductor	22uH	TAIYO YUDEN	
43	2	NF2,NF1	NRS8030T100MJGJ	Inductor	10uH	TAIYO YUDEN	
44	1	PC1	NFE31PT222Z1E9L	Filter	2200pF,25VDC	MURATA	
45	1	PC2	ACPL-217-50DE	Photo Coupler	3.75kv TRANS	Broadcom Limited	
46	1	Q1	EL3H7(C)(TA)-VG	Photo Coupler	3.75KV TRANS	Everlight Electronics	
47	1	Q2	BSR14.215	Transistor	BSR14.215	Nexperia	
48	1	Q3	FZT493ATA	Transistor	FZT493ATA	Diodes Incorporated	
49	1	Q4	MMBT2222A-7-F	Transistor	MMBT2222A-7-F	Diodes Incorporated	
50	1	Q5	STF13N60M2	FET	STF13N60M2	STMicro	
51	5	R1,R6,R49,R59,R61	2SA1586	Transistor	2SA1586	TOSHIBA	
52	1	R2	RK73B1JTTDD103J	Resistor	10Kohm/5%	KOA	
53	1	R3	RK73B1JTTD150J	Resistor	15ohm/5%	KOA	
54	2	R4,R5	RK73B1JTTD202J	Resistor	2Kohm/5%	KOA	
55	3	R7,R8,R9	RK73H1JTTD2201F	Resistor	2.2Kohm/1%	KOA	
56	1	R10	RK73B1JTTD122J	Resistor	1.2Kohm/5%	KOA	
57	1	R11	RK73H1JTTD9092F	Resistor	90.9Kohm/1%	KOA	
58	1	R12	CRCW1210120RFKEA	Resistor	120ohm/0.5W/1%	Vishay	
59	0		RK73H1JTTD2002F	Resistor	20Kohm/1%	KOA	
60	1	R14		Resistor	xxxohm/1608		Unmounted
61	1	R17	RK73H1JTTD3300F	Resistor	330ohm/1%	KOA	
62	1	R19	RK73H1JTTD10R0F	Resistor	10ohm/1%	KOA	
63	3	R20,R26,R33	KTR18EZPF3903	Resistor	390Kohm/1%/500V	ROHM	
64	1	R21	RK73Z1JTTD	Resistor	0ohm	KOA	
65	1	R22	KTR18EZPF2003	Resistor	200Kohm/1%/500V	ROHM	
66	1	R23	KTR18EZPF4303	Resistor	430Kohm/1%/500V	ROHM	
67	1	R24	RK73H1JTTD36R0F	Resistor	36ohm/1%	KOA	
68	1	R25	KTR18EZPF2703	Resistor	270Kohm/1%/500V	ROHM	
69	1	R27	RK73H1JTTD2000F	Resistor	200ohm/1%	KOA	
70	1	R29	RK73H1JTTD3600F	Resistor	360ohm/1%/1608	KOA	
71	1	R30	RK73H1JTTDD1000F	Resistor	100ohm/1%	KOA	
			RK73H1JTTD3301F	Resistor	3.3Kohm/1%	KOA	

72	1	R31		KTR18E2PF2202	Resistor	22Kohm/1%/500V	ROHM	
73	6	R32,R46,R47,R50,R51,R52		RK73B1ETTP102J	Resistor	1Kohm/1005	KOA	
74	1	R34		RC1206FR-0730RL	Resistor	30ohm/1%/0.1W	Yageo	
75	1	R36		ERJ-14BQF5R6U	Resistor	5.6ohm/1%/0.5W	PANASONIC	
76	1	R37		RK73H1JTTD3013F	Resistor	301Kohm/1%/1608	KOA	
77	1	R38		RK73H1JTTD1783F	Resistor	178Kohm/1%/1608	KOA	
78	4	R40,R42,R43,R44		RK73H1JTTD5102F	Resistor	51Kohm/1%	KOA	
79	1	R41		RK73H1JTTD1332F	Resistor	13.3Kohm/1%	KOA	
80	1	R45		RK73H1JTTD2001F	Resistor	2Kohm/1%	KOA	
81	6	R53,R54,R55,R56,R57,R58		RK73H1JTTD5600F	Resistor	560ohm/1%/1005	KOA	
82	1	R60		RK73H1JTTD4702F	Resistor	47Kohm/1%/1608	KOA	
83	1	SW1		SSSS213000	Switch	SSSS213000	ALPS ALPINE	
84	1	SW2		A6S-6104H-R100	Switch	A6S-6104H-R100	OMRON	
85	1	SW3		SKRTLAE010	Switch	SKRTLAE010	ALPS ALPINE	
86	4	TP1,TP6,TP7,TP8		HK-5-G-Red	Test Pin	HK-5-G-Red	MAC8	
87	4	TP2,TP3,TP4,TP5		HK-5-G-White	Test Pin	HK-5-G-White	MAC8	
88	2	TP10,TP9		HK-5-G-Black	Test Pin	HK-5-G-Black	MAC8	
89	1	U1		R7F100GGG2DFB#AA0	MCU	R7F100GGG2DFB#AA0	Renesas	
90	1	U2		ISL85415FRZ	IC	ISL85415FRZ	Renesas	
91	1	U3		ISL3159EFBZ	IC	ISL3159EFBZ	Renesas	
92	1	U5		LM217T	IC	LM217T	STMicro	
93	1	U6		MAX14575AETA+T	IC	MAX14575AETA+T	Analog Devices/Maxim	
94	1	U7		LMR62014	IC	LMR62014	TI	
95	2	U8,U9		74LVC1T45Z6	IC	74LVC1T45Z6	Diodes Incorporated	
96	1	U10		FT232RL	IC	FT232RL	FTDI	
97	1	U11		74LVC1G126GM.115	IC	74LVC1G126GM.115	Nexperia	
98	1	U12		M74VHC1G125DTT1G	IC	M74VHC1G125DTT1G	onsemi	
99	0		ZD1	MMBZ5221BLT1G	Zener Diode	MMBZ5221BLT1G	onsemi	Unmounted
100	1	ZD2		SZMMSZ5245BT1G	Zener Diode	SZMMSZ5245BT1G	onsemi	
101	1	ZD3		MMBZ5232BLT1G	Zener Diode	MMBZ5232BLT1G	onsemi	
102	1	ZD4		SZMMSZ5260BT1G	Zener Diode	SZMMSZ5260BT1G	onsemi	
103	1	ZD5		BZX84C12LT1G	Zener Diode	BZX84C12LT1G	onsemi	
104	1	LED1		LA-2	LED Spacer	(SID1050CM)	MAC8	
105	1	R39		RK73G2BTDD2201F	Resistor	2.2Kohm/1%/3216	KOA	
106	1	C21		UVR1A471MED	Aluminium Capacitor	470uF/10V	NICHICON	
107	0		C22	UVR1V471MPD1TD	Aluminium Capacitor	470uF/35V	NICHICON	Unmounted
108	1	D12		PMEG4005AEA.115	Schottky Diode	PMEG4005AEA.115	Nexperia	
109	1	C23		GRM188R61E105KA12	Ceramic Capacitor	1uF/10V	Murata	

Revision History	RL78/G23 Lighting Communication Master Evaluation Board
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Rev.	Date	Description	
		Page	Summary
1.00	Jun. 17, 2022	-	First Revision