

RL78/G24 DC/DC LED Control Evaluation Board BOM List

ItemNo	Quantity	Mount component reference	Unmount component reference	Schematic part name	Kind	Part name	Manufacture
1	1	CN1		PJ-018H	JACK	PJ-018H	CUI Devices
2	1	CN2		250-702	Terminal Block	250-702	WAGO
3	1	CN3		250-703	Terminal Block	250-703	WAGO
4	1	CN4		250-704	Terminal Block	250-704	WAGO
5	1	CN5		UX60SC-MB-5ST	USB Connector	UX60SC-MB-5ST	Hirose Electric
6	21	C1,C5,C6,C11,C14,C15,C16,C18,C23,C27,C32,C33,C34,C36,C41,C46,C48,C49,C50,C51,C52		0.1uF/50V/1005	CERAMIC CAPACITOR	GRT155R71H104KE01D	Murata Electronics
7	1	C2		0.47uF/50V/1005	CERAMIC CAPACITOR	GRM155R61H474KE11D	Murata Electronics
8	2	C4,C3		3.7pF/50V/1005	CERAMIC CAPACITOR	GCQ1555C1H3R7CB01D	Murata Electronics
9	2	C7,C8		xxxF/1005	Pin Socket	801-87-002-10-001101	Preci-Dip
10	4	C9,C17,C35,C47		4.7uF/25V/1608	CERAMIC CAPACITOR	GRM188R61E475KE11D	Murata Electronics
11	1	C10		680uF/16V/DIP	ALUMINUM CAPACITOR	UPW1C681MPD6	Nichicon
12	1	C12		47pF/50V/1005	CERAMIC CAPACITOR	GCM1555C1H470JA16J	Murata Electronics
13	0		C13	0.22uF/25V/1608	CERAMIC CAPACITOR	CC0603JRX7R8BB224	YAGEO
14	9	C19,C20,C21,C28,C29,C30,C37,C38,C39		10uF/25V/1608	CERAMIC CAPACITOR	GRM188R61E106KA73D	Murata Electronics
15	0		D3,D1	RB520S30,115	Schottky Diode	RB520S30,115	Nexperia USA
16	1	D2		S1NB60-7062	Bridge Rectifiers	S1NB60-7062	Shindengen
17	1	D4		BAS20HT1G	Diode	BAS20HT1G	onsemi
18	6	D6,D7,D8,D9,D10,D11		DSS13U	Schottky Diode	DSS13U	SMC Diode Solutions
19	1	D12		RCLAMP0502BATCT	TVS Diode	RCLAMP0502BATCT	Semtech
20	1	FU1		SF-0603F050-2	FUSE	SF-0603F050-2	Bourns
21	2	JP2,JP1		HWP-3P-G	Pin Header	HWP-3P-G	MAC8
22	2	J2,J1		FFC-32BMEP1	Pin Header	FFC-32BMEP1	Honda
23	2	J5,J3		PPPC081LFBN-RC	Pin Socket	PPPC081LFBN-RC	Sullins Connector Solutions
24	1	J4		PPPC061LFBN-RC	Pin Socket	PPPC061LFBN-RC	Sullins Connector Solutions
25	1	J6		PPPC101LFBN-RC	Pin Socket	PPPC101LFBN-RC	Sullins Connector Solutions
26	1	J7		7614-6002	Connector	7614-6002BL	3M
27	1	LED1		LXM2-PD01-0050	LED	LXM2-PD01-0050	Lumileds
28	1	LED2		LXML-PM01-0090	LED	LXML-PM01-0090	Lumileds
29	1	LED3		LXML-PB01-0030	LED	LXML-PB01-0030	Lumileds
30	1	LED4		SML-E12M8W	LED	SML-E12M8W	Rohm Semiconductor
31	1	L1		LQH43MN102K03	Inductor	LQH43MN102K03	Murata Electronics
32	3	L2,L3,L4		SLF7045T-151MR40-PF	Inductor	SLF7045T-151MR40-PF	TDK
33	2	NF2,NF1		NFE31PT222Z1E9L	Filter	NFE31PT222Z1E9L	Murata Electronics
34	1	PC1		ACPL-217-50DE	Photo Coupler	ACPL-217-50DE	Broadcom Limited
35	1	PC2		PS2801C-1-A/L	Photo Coupler	PS2801C-1-A/L	Renesas Electronics
36	0		P1 to P7	PAD	PAD		
37	1	Q1		FZT493ATA	Transistor	FZT493ATA	Diodes Incorporated
38	1	Q3		MMBT2222A-G	Transistor	MMBT2222A-G	Comchip Technology
39	1	Q4		STF13N60M2	Transistor	STF13N60M2	STMicroelectronics
40	3	Q5,Q6,Q7		SSM3J334R,LF	Transistor	SSM3J334R,LF	TOSHIBA
41	2	R1,R2		2.2K/1%/1608	Resistor	RK73H1JTDD2201F	KOA Speer Electronics
42	5	R3,R62,R63,R65,R66		1K/1%/1608	Resistor	RK73H1JTDD1001F	KOA Speer Electronics

43	11	R27,R36,R37,R38,R45,R54, R55,R56,R67,R68,R70		10K1%/1608	Resistor	RK73H1JTDD1002F	KOA Speer Electronics
44	1	R5		100ohm1%/1608	Resistor	RK73H1JTDD1000F	KOA Speer Electronics
45	1	R6		120ohm1%/2012	Resistor	RK73H2ATTD1200F	KOA Speer Electronics
46	0		R8,R10,R11,R13 R23,R30,R64	xxx/1608	Resistor		
47	1	R9		1.3K1%/1608	Resistor	RK73H1JTDD1301F	KOA Speer Electronics
48	1	R12		10ohm1%/1608	Resistor	RK73H1JTDD10R0F	KOA Speer Electronics
49	1	R14		390K1%/500V/3216	Resistor	KTR18EZPF3903	Rohm Semiconductor
50	3	R15,R22,R29		0ohm/1608	Resistor	RK73Z1JTDD	KOA Speer Electronics
51	1	R16		430K1%/500V/3216	Resistor	KTR18EZPF4303	Rohm Semiconductor
52	1	R17		200K1%/500V/3216	Resistor	KTR18EZPF2003	Rohm Semiconductor
53	1	R18		36ohm1%/1608	Resistor	RK73H1JTDD36R0F	KOA Speer Electronics
54	1	R19		270K1%/500V/3216	Resistor	KTR18EZPF2703	Rohm Semiconductor
55	2	R20,R25		300ohm1%/1608	Resistor	RK73H1JTDD3000F	KOA Speer Electronics
56	1	R21		560ohm1%/1608	Resistor	RK73H1JTDD5600F	KOA Speer Electronics
57	1	R26		22K1%/500V/3216	Resistor	KTR18EZPF2202	Rohm Semiconductor
58	0		R31,R40,R49	xxx/2012	Resistor		
59	3	R32,R41,R50		10K1%/2012	Resistor	RK73H2ATTD1002F	KOA Speer Electronics
60	3	R33,R42,R51		47ohm1%/2012	Resistor	RK73H2ATTD47R0F	KOA Speer Electronics
61	3	R34,R43,R52		200ohm1%/2012	Resistor	RK73H2ATTD2000F	KOA Speer Electronics
62	3	R35,R44,R53		1.3ohm1%/6432	Resistor	ERJ-1TRQF1R3U	Panasonic Electronic
63	3	R39,R48,R57		100K1%/2012	Resistor	RK73H2ATTD1003F	KOA Speer Electronics
64	1	R60		2K1%/1608	Resistor	RK73H1JTDD2001F	KOA Speer Electronics
65	0		SO1 to 10	SO	ShortPAD		
66	0		SS1 to SS14	SS	ShortPAD		
67	1	SW1		A6S-6104-H	Switch	A6S-6104-H	Omron Electronics
68	1	SW2		SSSS213000	Switch	SSSS213000	Alps Alpine
69	1	SW3		SKRTLAE010	Switch	SKRTLAE010	Alps Alpine
70	0		TH1 to TH6	Through hole	Through hole		
71	2	TP8,TP1		HK-5-G-Red	Test Pin	HK-5-G-Red	MAC8
72	2	TP3,TP2		HK-5-G-Black	Test Pin	HK-5-G-Black	MAC8
73	4	TP4,TP5,TP6,TP7		HK-5-G-White	Test Pin	HK-5-G-White	MAC8
74	1	U1		R7F101GLG2DFB	IC	R7F101GLG2DFB	Renesas Electronics
75	2	U2,U4		ISL55110IRZ	IC	ISL55110IRZ	Renesas Electronics
76	1	U5		ISL3159EFBZ	IC	ISL3159EFBZ	Renesas Electronics
77	1	U6		FT232RL	IC	FT232RL	FTDI
78	1	U7		BRM-2508	IC	BRM-2508	American Bright Optoelectronics
79	1	U10		74LVC1G126GV,125	IC	74LVC1G126GV,125	Nexperia
80	3	VR1,VR2,VR3		RS08U111Z001	Variable Resistor	RS08U111Z001	Alps Alpine
81	1	Y1		CSTLS20M0X51x	Pin Socket	801-87-003-10-001101	Preci-Dip
82	1	Y2		SSP-T7-FL 32.768KHz	CRYSTAL	SSP-T7-FL 32.768KHz	Seiko Instruments
83	0		ZD1	MMBZ5221BLT1G	Zener Diode	MMBZ5221BLT1G	onsemi
84	1	ZD2		CMHZ5245B	Zener Diode	CMHZ5245B	Central Semiconductor
85	1	ZD3		SZMMBZ5232BLT1G	Zener Diode	SZMMBZ5232BLT1G	onsemi
86	1	ZD4		MMSZ5260BT1G	Zener Diode	MMSZ5260BT1G	onsemi
87	1	ZD5		BZX84-C12,215	Zener Diode	BZX84-C12,215	Nexperia USA
88	0		ZD6,ZD7,ZD8	PDZVTFTR4.3B	Zener Diode	PDZVTFTR4.3B	Rohm Semiconductor
89	1	R69		4.7K1%/1608	Resistor	RK73H1JTDD4701F	KOA Speer Electronics
90	1	U11		PSSI2021SAY,115	IC	PSSI2021SAY,115	Nexperia

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		Page	Summary
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