

RL0021 Rev. A Bill of Materials

Qty	Reference Designator	Description	Manufacturer Part Number	Vendor	Vendor Part Number
2	J1 J5	CONN HEADER 2POS 4.2MM VERT TIN	39299023	Digi-Key	WM3853-ND
3	J2-4		395311008	Digi-Key	WM7842-ND
1	J6	IDC BOX HEADER 0.050 10 POS	3220-10-0300-00	Digi-Key	1175-1629-ND
2	R46-47		3522200RFT	Digi-Key	A121182CT-ND
1	X1	CRYSTAL 16.0000MHZ 18PF SMD	ABM8G-16.000MHZ-18-D2Y-T	Digi-Key	535-10267-1-ND
2	U7 U9		ALM2402QDRRRQ1	Digi-Key	296-41954-1-ND
2	FB1-2		BLM18KG471SN1D	DIGIKEY	490-5257-1-ND
8	U2-5 U11-14		BTN8962TAAUMA1	Digi-Key	BTN8962TAAUMA1INCT-ND
4	C18 C25 C27 C33		C2012X5R1A106K125AB	Digi-Key	445-7660-1-ND
1	R3	RES SMD 1 OHM 5% 2W 2512	CRM2512-JW-1R0ELF	Digikey	CRM2512-JW-1R0ELFCT-ND
3	R37 R41 R44	RES 1K OHM 1/10W 1% 0402 SMD	ERJ-2RKF1001X	Digi-Key	P1.00KLCT-ND
5	R14 R19 R27 R32 R48		ERJ-2RKF1002X	Digi-Key	P10.0KLCT-ND
6	R16 R28-30 R17 R15	RES 10K OHM 1/10W 1% 0402 SMD	ERJ-2RKF1002X	Digi-Key	P10.0KLCT-ND
10	R4-5 R9-10 R18 R22 R31 R36 R38 R43	RES 100K OHM 1/10W 1% 0402 SMD	ERJ-2RKF1003X	Digi-Key	P100KLCT-ND
1	R23	RES 16.2K OHM 1/10W 1% 0402 SMD	ERJ-2RKF1622X	Digi-Key	P16.2KLCT-ND
1	R2	RES 3.48K OHM 1/10W 1% 0402 SMD	ERJ-2RKF3481X	Digi-Key	P3.48KLCT-ND
2	R1 R21	RES 49.9K OHM 1/10W 1% 0402 SMD	ERJ-2RKF4992X	Digi-Key	P49.9KLCT-ND
10	R7-8 R12-13 R34-35 R39-40 R42 R45	RES 5.1K OHM 1/10W 1% 0402 SMD	ERJ-2RKF5101X	Digi-Key	P5.10KLCT-ND
4	R11 R20 R26 R33	RES 22K OHM 1/10W 1% 0402 SMD	ERJ2RKF2202X	Digi-Key	P22.0KLCT-ND
2	R24-25	RES 2.7K OHM 1/10W 1% 0402 SMD	ERJ2RKF2701X	Digi-Key	P2.70KLCT-ND
2	C36-37	CAP CER 10PF 50V 5% 0402	GRM1555C1H100JA01D	Digi-Key	490-5921-1-ND
13	C5 C11-12 C15 C19-20 C29-30 C32 C34 C39 C41 C43	CAP CER 0.1UF 50V 10% X5R 0402	GRM155R61H104KE14D	Digi-Key	490-10697-1-ND
2	C26 C40		GRM155R70J105KA12D	Digi-Key	490-10024-1-ND
2	C2 C17	CAP CER 10000PF 25V 10% X7R 0402	GRM155R71E103KA01D	Digi-Key	490-1312-1-ND
6	C1 C4 C16 C21 C23 C31	CAP CER 10UF 25V 10% X5R 0805	GRM21BR61E106KA73L	Digi-Key	490-5523-1-ND
4	C7-10	CAP CER 22UF 25V 20% X5R 0805	GRM21BR61E226ME44L	Digi-Key	490-10749-1-ND
2	C3 C22	CAP CER 10UF 35V 10% X5R 1206	GRM31CR6YA106KA12L	Digi-Key	490-5524-1-ND
8	C6 C13-14 C24 C28 C35 C38 C42		GRM32ER71H106KA12L	Digi-Key	490-6544-1-ND
1	U15	IC RCVR ESD RS485/422 LP SOT23-6	ISL3283EIHZ-T	Digi-Key	ISL3283EIHZ-TCT-ND
1	U8	SENSOR TEMP I2C/SMBUS 8DFN	MCP9808T-E/MC	Digi-Key	MCP9808T-E/MCCT-ND
1	U10	IC MCU 32BIT 64KB FLASH 32QFN	MKV11Z64VFM7	Digi-Key	568-13578-ND
1	D1	DIODE ZENER 24V 200MW SOD323F	MM3Z24VB	Digi-Key	MM3Z24VBTR-ND
1	Q1	TRANS NPN 30V 0.6A SOT23	MMBT2222LT1G	Digikey	MMBT2222LT1GOSCT-ND
2	U1 U6	Voltage Regulators - Switching Regulators 1A 24V 1.4MHz Non-sync Buck	MP2360DG-LF-P	Mouser	946-MP2360DGLFP
2	L1-2	FIXED IND 1UH 1.7A 70 MOHM SMD	NRS2012T1R0NGJ	Digi-Key	587-3448-1-ND
3	D4-5 D7	DIODE SCHOTTKY 60V 1A PMDU	RB160M-60TR	Digi-Key	RB160M-60CT-ND
1	R6	RES 499 OHM 1% 1/2W 1206	RNCP1206FTD499R	Digi-Key	RNCP1206FTD499RCT-ND
5	D2-3 D6 D8-9	DIODE SCHOTTKY 45V 15A DO214AB	SK1545-TP	Digi-Key	SK1545-TPCT-ND