

I21RU4A Bill of Materials

Qty per 1PCB	Reference	Part Number (Digikey #)	Manufacturer	Description
5	C1, C6, C7, C10, C12, C14	C0603Y5V250-104ZNP	Venkel	Multilayer Ceramic Chip Capacitor Surface Mount 0603, Y5V, 25V, 0.1uF, +80/-20%
3	C2, C3,	C0603C0G500-220JNP	Venkel	Multilayer Ceramic Chip Capacitor Surface Mount 0603, NPO, 50V, 22pF, ±5%
1	C9	C0603C0G500-270JNP	Venkel	Multilayer Ceramic Chip Capacitor Surface Mount 0603, NPO, 50V, 27pF, ±5%
1	C4	TA010TCM106MAR	Venkel	Surface Mount Tantalum Electrolytic Capacitor 3216 (A), 10uF, 10V
1	C5	C0603C0G500-101JNP	Venkel	Multilayer Ceramic Chip Capacitor Surface Mount 0603, NPO, 50V, 100pF, ±5%
1	C8	C0603X7R250-272JNP	Venkel	Multilayer Ceramic Chip Capacitor Surface Mount 0603, X7R, 25V, 2700pF, ±5%
2	C16, C17	C0805X7R160-105JNP	Venkel	Multilayer Ceramic Chip Capacitor Surface Mount 0805, X7R, 16V, 1uF, ±5%
1	C20	TA016TCM107MDR	Venkel	Surface Mount Tantalum Electrolytic Capacitor 7343 (D), 100uF, 16V
1	C21	DME2P47K	CDE Cornel Dubilier	Miniature Metallized Polyester Capacitor, 250VDC (160VAC), 0.47uF
1	D2	LTL-4261N (160-1035-ND)	Lite-On	LED T-1, Ultrabright Red Diffused
1	D3	LTL-4231N (160-1142-ND)	Lite-On	LED T-1, Green Diffused
1	D5	BAS16 (BAS16DITR-ND)	Diodes	Diode High Speed SMD SOT-23 package
2	D6, D7	MMSZ5229B-7 (MMSZ5229BDITR-ND)	Diodes	not installed
1	D8	MMSZ5246B-7 (MMSZ5246BDITR-ND)	Diodes	not installed
1	D9	1N4739A-T (1N4739ADITR-ND)	Diodes	Zener Diode - 1W, DO-41, 9.1V
1	JP3	310-93-164-41-001000 (ED7064-ND)	Mill-Max	STRIP SOCK 64 PIN SOLDER TAIL
1	JP7	4-103239-0 (A26512-ND)	AMP	Standard 0.025" (0,64mm) Square Post Header, Centerline: 0.1" (2,54mm) Single row, 3 pin, Gold plated
1	L1	ELJ-NC15NKF (PCD1537TR-ND)	Panasonic	Inductor Fixed Surface Mount 1008 15nH
1	L2	ELJ-NCR10KF (PCD1049TR-ND)	Panasonic	Inductor Fixed Surface Mount 1008 100nH
4	R1, R2, R42, R43	CR0603-16W-000JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 0 Ohm
6	R8, R9, R24, R26, R34, R35	CR0603-16W-101JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 100 Ohm
1	R3	CR0603-16W-334JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 330k

1	R12	CR0603-16W-303JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 30k
1	R6	CR0603-16W-104JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 100k
3	R11	CR0603-16W-223JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 22k
1	R12	CR0603-16W-164JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 160k
3	R15, R16, R38	CR0603-16W-1001FT	Venkel	1% Precision Thick Film Chip Resistor Surface Mount 0603 1.00K
4	R19, R20, R23, R25	CR0603-16W-202JT	Venkel	not installed
6	R4, R7, R21, R27, R28, R31	CR0603-16W-203JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 20 kOhm
1	R29	CR0603-16W-1002FT	Venkel	1% Precision Thick Film Chip Resistor Surface Mount 0603 10.0K
1	R30	CR0603-16W-302JT	Venkel	5% Precision Thick Film Chip Resistor Surface Mount 0603 3 kOhm
3	R36, R37	CR0603-16W-512JT	Venkel	not installed
1	R40	ERG-1SJ301 (P300W-1BK-ND)	Panasonic	5% Metal Oxide Film Resistor, 1W, 300 Ohm
1	R41	ERD-S2TJ474V (P470KBACT-ND)	Panasonic	not installed
1	U1	LM61BIZ (LM61BIZ-ND)	National Semiconductor	2.7V Temperature Sensor, TO-92
1	U2	PIC18LF2320-I/SO (PIC18LF2320-I/SO-ND)	Microchip	8-bit Microcontroller, 28-SOIC
1	U3	TR8000	RFM	916.5 MHz Hybrid Transceiver
1	U4	TC7SH86F (TC7SH86FTR-ND)	Toshiba	XOR Gate, SOT-23-5
1	U5	LT1460KCS3-2.5 (LT1460KCS3-2.5TR-ND)	Linear Technology	Precision Low-Drift 2.500 VSOT-23 Voltage References
1	U6	TK71535ASCL	Toko	Low Dropout Voltage Regulator, 3.5V
1	U7	MCP809T-270I/TT (MCP809T-270I/TTTR-ND)	Microchip	Microcontroller Supervisor, 2.70V, SOT-23
1	Y1	CSA310-4.000MABJ (300-1010-ND)	Citizen	CSA Series Cylinder Type Crystal