

Item	Quantity	Reference	Part	Value	Tol	Rating	Type	Manufacturer	Part Number	Supplier
1	3	C5, C6, C23	470uF,,,	470uF		35 VDC	Aluminum Electrolytic, Tubular/Radial	Panasonic	EEUFC1V471	Digi-Key 800-344-4539
2	2	C4, C10	0.1, 5%, 16V, MLF	0.1 uF	5%	16 V	Metallized Polyethylene, Radial (5mm)	Wima	MKS2 0.1/16/5	TAW Electronics 818-846-3911
3	3	C7, C8, C9	0.47, 5%, 16V, MLF	0.47 uF	5%	16 V	Metallized Polyethylene, Radial (5mm)	Wima	MKS2 0.47/16/5	TAW Electronics 818-846-3911
4	1	C1	0.1, 10%, 63V, MLF	0.1 uF	10%	63 V	Metallized Polyethylene, Radial (5mm)	Wima	MKS2 0.1/63/10	TAW Electronics 818-846-3911
5	2	C2, C3	33pF,,,	33pF	+/-5%	50VDC	Monolithic Ceramic Cap, NP0 Dielectric	Kemet	C1206C330J5GACTU	Digi-Key 800-344-4539
6	12	C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22	0.1,,,	0.10uF	+/-10%	25VDC	Monolithic Ceramic Cap, X7R Dielectric	Panasonic	ECJ3VB1E104K	Digi-Key 800-344-4539
7	6	JP7, JP8, JP9, JP10, JP12, JP13	JUMPER,,,	-	-	-	20AWG Metal Bus Wire			
8	1	R23	10,, 2W, AXIAL	10 Ohm	5%	2W	Metal, Large Axial	Vishay	BC10W-2CT	Digi-Key 800-344-4539
9	1	R21	4.27k, 0.25%, , AXIAL	4.27k	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55J4271BS	Garrett 805-922-0594
10	1	R22	887, 0.25%, , AXIAL	887	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55J8870BS	Garrett 805-922-0594
11	1	R4	121,,, AXIAL	121 Ohm	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
12	2	R11, R9	100,,,	100 Ohm	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
13	1	R41	470,,, AXIAL	470	5%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			
14	2	R5, R6	1k,,,	1.00k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
15	3	R10, R27, R37	2k,,,	2.00k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
16	1	R1	4.75k,,, AXIAL	4.75k	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
17	11	R7, R24, R25, R26, R28, R29, R30, R31, R32, R33, R40	10k,,,	10.0k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
18	1	R8	15k,,,	15.0k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
19	11	R12, R13, R14, R15, R16, R17, R18, R19, R20, R38, R39	100k,,,	100k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
20	3	R34, R35, R36	10M,,,	10M	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
21	1	R2	TBD,,,	TBD	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
22	1	RP1	1Mx9,,,	1 M	2%	-	SIP Network, 1 common pin	Bourns	4310R-1-105	Digi-Key 800-344-4539
23	1	R3	5k,,, 3266W	5 k	10%	.25W	Trimpot, Cermet, 1/4" sq, top adj	Bourns	3266W-1-502	Digi-Key 800-344-4539
24	1	D1	1N5817,,,	1N5817	-	20V	Rectifier, Schottky, 1A, Axial	-	1N5817RL	Digi-Key 800-344-4539
25	5	D2, D3, D4, D5, D13	1N4001,,,	1N4001	-	50V	Rectifier, Silicon, 1A, Axial	-	1N4001	Digi-Key 800-344-4539
26	6	D7, D8, D9, D10, D11, D12	1N6263,,,	1N6263	-	60V	Diode, Schottky, 15mA, 410mV, SOD-123	Diodes Inc	1N6263W-7	Digi-Key 800-344-4539
27	1	Z1	1.5KE20A,,,	20VDC	5%	1.5kW pk	Transient Voltage Supressor, Axial	General Semi	1.5KE20A	Digi-Key 800-344-4539
28	3	Z2, Z3, Z4	12V,,,	12VDC	5%	750W pk	Zener Transient Supressor, Powermite	On Semi	1PMT12AT1	Digi-Key 800-344-4539
29	5	Q1, Q2, Q3, Q5, Q7	2N7002,,,	2N7002	-	60V	N-Channel, Id .5A, Rds 7.5 Ohm, SOT-23	Fairchild	2N7002NCT	Digi-Key 800-344-4539
30	1	Q4	BSS84,,,	BSS84	-	-50V	P-Channel, Id .13A, Rds 10 Ohm, SOT-23	Fairchild	BSS84LT1	Digi-Key 800-344-4539
31	2	Q8, Q6	SI4435DY,,,	Si4435	-	-30V	P-Channel, Id 8A, Rds 20 mOhm, SO8	Vishay/IRQ	Si4435DY	Digi-Key 800-344-4539
32	2	U10, U11	74LVC1G07,,,	74LVC1G07	-	-	Single Open Drain Buffer, SOT-23-5	TI	SN74LVC1G07DBV	Digi-Key 800-344-4539
33	2	U20, U21	74LV221A,,,	74LV221A	-	-	Dual Mono Multivibrator, SOIC	TI	SN74LV221AD	Digi-Key 800-344-4539
34	1	U24	74AHC00,,,	74AHC00	-	-	Quad Dual Input NAND Gate, SOIC	TI	SN74AHC00D	Digi-Key 800-344-4539
35	1	U23	74AHC04,,,	74AHC04	-	-	Hex Inverter, SOIC	TI	SN74AHC04D	Digi-Key 800-344-4539
36	1	U8	74AHC245,,,	74AHC245	-	-	Otcal Bus Xceiver with Tri-State, SOIC	TI	SN74AHC245DW	Digi-Key 800-344-4539
37	4	U4, U5, U15, U16	74AHC273,,,	74AHC273	-	-	Octal D Flip-Flop with Reset, SOIC	TI	SN74AHC273DW	Digi-Key 800-344-4539
38	2	U6, U7	74AHC373,,,	74AHC373	-	-	Octal Tri-State Transparent Latch, SOIC	TI	SN74AHC373DW	Digi-Key 800-344-4539
39	1	U1	DS1994,,,	DS1994	-	-	Real-Time Clock with 1-Wire Interface	Dallas	DS1994L-F5, DS9094F Socket	Maxim 972-371-6824
40	1	U19	DS1996,,,	DS1996	-	-	64kBit NVRAM with 1-Wire Interface	Dallas	DS1996L-F5, DS9094F Socket	Maxim 972-371-6824
41	1	U17	MAX836,,,	MAX836	-	-	Micropower Voltage Monitor, SOT143	Maxim	MAX836EUS	Maxim 972-371-6824
42	1	U2	MAX6371,,,	MAX6371	-	-	Pin Selectable Watchdog Timer, SOT23-8	Maxim	MAX6371KA	Maxim 972-371-6824
43	1	IS01	PS2701-1,,,	PS2701-1	-	-	Optocoupler-Xistor Output, 4 Pin SOP	NEC	PS2701-1	Digi-Key 800-344-4539
44	1	U22	LTC1487,,,	LTC1487	-	-	Lo Pwr RS485 Transciever, Plastic DIP-8	Linear Technology	LTC1487CN8	Digi-Key 800-344-4539
45	3	U25, U26, U27	MAX3222,,,	MAX3222E	-	250kBPS	RS232 Self-Powered Dual Xceiver, SSOP	TI	MAX3222IDBR	Digi-Key 800-344-4539
46	1	U3	DLP-USB245M,,,	DLP-USB245M-	-	-	USB to FIFO Parallel Interface Module	DLP Design	DLP-USB245M	DLP Inc 469-964-8027
47	4	SW1, SW2, SW3, SW4	FSM2JSMA,,,	FSM2JSMA	-	-	PCB mount micro mini pushbutton switch	Alcoswitch	FSM2JSMA	Digi-Key 800-344-4539
48	8	K1, K2, K3, K4, K5, K6, K7, K8	RELAY 4PDT,,,	4PDT	-	5VDC	High Sensitivity Latching Relay	Aromat	DS4E-SL2-DC5V	Digi-Key 800-344-4539
49	3	K9, K10, K11	RELAY 2PST,,,	2PST	-	5VDC	High Sensitivity Latching Power Relay	Aromat	DSP2A-L2-DC5V, Use Socket	Digi-Key 800-344-4539
50	1	J4	HEADER_110,,,	Dual 27, 28	-	-	Two Pair of 27 and 28 Pin Headers	Samtec	SQT-127- and SQT-128-03-G-S	Samtec 812-944-6733
51	1	J8	AMPLATCH_34,,, VERT	34 Pin	-	-	2 Row Vertical Latching Header	AMP	499374-8	Digi-Key 800-344-4539
52	2	J2, J3	AMPMODU_3,,, VERT	3 Pin	-	-	1 Row Vertical Detent Latch Header	AMP	103414-1	Digi-Key 800-344-4539
53	3	J5, J6, J7	TERM_BLOCK_2,,,	2 Pin	-	-	1 Row Vert Header with Screw Retention	Phoenix Contact	1843224 and 1847055 Plug	Future 888-880-3449
54	1	J10	TERM_BLOCK_10,,,	10 Pin	-	-	1 Row Vert Header with Screw Retention	Phoenix Contact	1843305 and 1847204 Plug	Future 888-880-3449
55	2	JP1, JP2	JUMPER_3,,,	3 x 1	-	-	.25" Square Wrap Post .1" Center 1 Row	Samtec	TSW-136-07-G-S	Samtec 812-944-6733
56	1	JP11	JUMPER_2X2,,,	2 x 2	-	-	Holes To Accomodate 20AWG Metal Bus Wire			

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