

Item	Quantity	Reference	Part	Value	Tol	Rating	Type	Manufacturer	Part Number	Supplier
1	1	C6	470uF,,,	470uF		63 VDC	Aluminum Electrolytic, Tubular/Radial	Panasonic	EEUFC1J471L	Digi-Key 800-344-4539
2	1	C3	33uF,,10V,AO	33uF	+/-20%	10VDC	Alum Organic, Ultra-Low ESR, SMD 7343	Kemet	A700V336M010AT	Digi-Key 800-344-4539
3	4	C1,C2,C4,C5	10uF,,50V,CER	10uF	+22/-82%	50VDC	Monolithic Ceramic Cap, Smoothing Type	Murata	GJ243XF51H106ZD12	
4	2	C8,C7	0.1,,50V,CER	0.10 uF	+/-5%	50VDC	Monolithic Ceramic Cap, X7R Dielectric	AVX	08055C104JAT2A	Digi-Key 800-344-4539
5	1	R11	1.50,,3W,	1.50	1%	3W	Wirewound, Axial	Vishay/Dale	RS02B1R500FE70	Digi-Key 800-344-4539
6	4	R5,R6,R7,R8	100,,,SMD	100 Ohm	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 0805			
7	2	R12,R14	360,,,SMD	360 Ohm	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 0805			
8	2	R9,R10	470,,,SMD	470 Ohm	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 0805			
9	3	R13,R15,R16	10k,,,SMD	10.0k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 0805			
10	2	R1,R2	100k,,,SMD	100k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 0805			
11	4	D1,D2,D3,D4	MBR130,,,	MBR130T1	-	30VDC	Schottky Power Rectifier 1.0 Amps	ON Semiconductor	MBR130T1	Digi-Key 800-344-4539
12	1	D7	LED,,,RED	-	-	60mW	Red LED, SMD	Panasonic	LN1261C	Digi-Key 800-344-4539
13	2	D6,D5	LED,,,GREEN	-	-	60mW	Green LED, SMD	Panasonic	LN1361C	Digi-Key 800-344-4539
14	1	D8	1.5KE20CA,,,	19.0VDC	5%	1.5kW pk	BiDirection Transient Voltage Supressor	General Semi	1.5KE20CA	Digi-Key 800-344-4539
15	2	Q8,Q7	UN2213,,,	UN2213	-	50 V	NPN, with 47k Resistor Network, SOT-23	ON Semiconductor	MMUN2213LT1G	Digi-Key 800-344-4539
16	2	Q5,Q6	BSS84,,,	BSS84	-	-50V	P-Channel, Id .13A, Rds 10 Ohm, SOT-23	Fairchild	BSS84LT1	Digi-Key 800-344-4539
17	2	Q2,Q1	SI4435,,,	SI4435	-	-30VDC	P-Channel, Id 9A, Rds 20 mOhm, SO8	Vishay	Si4435BDY	ClassicIC 800-952-4440
18	2	Q4,Q3	SI4412,,,	SI4412	-	+30VDC	N-Channel, Id 8A, Rds 24 mOhm, SO8	Vishay	Si4412ADY	ClassicIC 800-952-4440
19	2	U1,U2	74HCT1G04,,,	74HCT104	-	-	Single INV Gate, 5 Pin, SOT-23	TI	SN74AHCT1G04DBV	Digi-Key 800-344-4539
20	1	U10	74HCT1G08,,,	74HCT108	-	-	Single AND Gate, 5 Pin, SOT-23	TI	SN74AHCT1G08DBV	Digi-Key 800-344-4539
21	2	U5,U6	74HCT1G86,,,	74HCT186	-	-	Single XOR Gate, 5 Pin, SOT-23	TI	SN74AHCT1G86DBV	Digi-Key 800-344-4539
22	1	U4	LT1121-5,,,	LTC1121-5	-	-	Micropower Low Dropout Regulator, SOT	Linear	LT1121CST-5	Digi-Key 800-344-4539
23	3	U7,U8,U9	PS2701-1,,,	PS2701-1	-	-	Optocoupler-Xistor Output, 4 Pin SOP	NEC	PS2701-1	Digi-Key 800-344-4539
24	1	J2	AMPMODU_6,,,VERT	6 Pin	-	-	1 Row Vertical Detent Latch Header	AMP	103414-4	Digi-Key 800-344-4539
25	1	J3	AMPMODU_7,,,VERT	7 Pin	-	-	1 Row Vertical Detent Latch Header	AMP	103414-5	Digi-Key 800-344-4539
26	2	J1,J4	TERM_BLOCK_2,,,	2 Pin	-	-	1 Row Vert Header with Screw Retention	Phoenix Contact	1843224 and 1847055 Plug	Future 888-880-3449
27	4	P1,P2,P3,P4	PAD_LG,,,	20AWG Solder Pad						
28	3	J5,J6,J7	TERM_2,,,	2 x 1	-	-	1 Row Vert .025" Square Terminal Strip	Samtec	TSW-136-07-G-S	Digi-Key 800-344-4539
29	1	U3	DCP021515P,,,	15VDC	-	2W	Isolated DC/DC, UnReg +15VDC Output	TI	DCP021515P	Digi-Key 800-344-4539
30	1	F1	P075X,,,	1.5 A	-	-	Fuse, Resettable	Wickmann	RLD60P075X	Wickmann 404-699-7820
31	1	L1	FB20010-3B,,,	FB20010-3B	+/-25%	-	Wide-Band Choke, Axial	JW Miller	FB20010-3B	Digi-Key 800-344-4539