

Item	Quantity	Reference	Part	Value	Tol	Rating	Type	Manufacturer	Part Number	Supplier
1	1	C1	470uF,,,	470uF		63 VDC	Aluminum Electrolytic, Tubular/Axial	BC Electronics	2222 138 18471	Digi-Key 800-344-4539
2	2	C4,C19	4.7uF,,10V,TANT	4.7 uF	10%	10VDC	Solid Tantalum, Low ESR, Industrial	Kemet	T494A475K010AS	Kemet Electronics
3	3	C34,C35,C36	10uF,,16V,TANT	10 uF	10%	16V	Solid Tantalum, Precision Molded Chip	Kemet	T491B106K016AS	SMD West 408-996-1800
4	1	C37	10uF,,16V,TANT-RADIAL	10 uF	10%	16V	Solid Tantalum, Radial Leaded	TBD	TBD	TBD
5	4	C15,C18,C26,C27	33uF,,35V,TANT	33 uF	10%	35VDC	Solid Tantalum, Low ESR, Industrial	Kemet	T494X336K035AS	Kemet Electronics
6	4	C12,C22,C24,C29	100uF,,16V,TANT	100 uF	10%	16VDC	Solid Tantalum, Low ESR, Surge Robust	Kemet	T495X107K016AS	Kemet Electronics
7	3	C2,C3,C10	330uF,,10V,TANT	330 uF	10%	10VDC	Solid Tantalum, Ultra-Low ESR	Kemet	T510X337K010AS	Kemet Electronics
8	3	C7,C21,C38	10uF,,50V,CER	10 uF	+22/-82	50VDC	Monolithic Ceramic Cap, Smoothing Type	Murata	GJ243XF51H106ZD12	
9	1	C17	0.33uF,,25V,X7R	0.33 uF	20%	25VDC	Monolithic Ceramic Cap, X7R Dielectric	AVX	12063C334MAT1A	ClassicIC 800-952-4440
10	1	C5	0.22uF,,25V,X7R	0.22 uF	20%	25VDC	Monolithic Ceramic Cap, X7R Dielectric	AVX	12063C224MAT1A	ClassicIC 800-952-4440
11	3	C9,C14,C25	0.1uF,,25V,X7R	0.10 uF	20%	25VDC	Monolithic Ceramic Cap, X7R Dielectric	AVX	08053C104MAT1A	ClassicIC 800-952-4440
12	2	C8,C16	2.2nF,,50V,NPO	2.2 nF	10%	50VDC	Monolithic Ceramic Cap, COG Dielectric	AVX	08055A222KAT1A	ClassicIC 800-952-4440
13	1	C13	470pF,,50V,NPO	470 pF	10%	50VDC	Monolithic Ceramic Cap, COG Dielectric	AVX	06035A471KAT1A	ClassicIC 800-952-4440
14	6	C6,C11,C20,C23,C32,C33	220pF,,50V,NPO	220 pF	10%	50VDC	Monolithic Ceramic Cap, COG Dielectric	AVX	06035A221KAT1A	
15	3	C28,C30,C31	0.1,5%,16V,MLF	0.1 uF	5%	16 V	Metallized Polyethylene, Radial (5mm)	Wima	MKS2 0.1/16/5	TAW Elec 818-846-3911
16	3	JP1,JP2,JP3	JMP_SML,,,	-	-	-	20AWG Metal Bus Wire			
17	1	R29	4.27k,0.1%,AXIAL	4.27k	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55J4271BS	Garrett 805-922-0594
18	1	R30	887,0.1%,AXIAL	887	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55J8870BS	Garrett 805-922-0594
19	2	R24,R25	2.2,,,AXIAL	2.2	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
20	1	R13	470,,,AXIAL	470	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
21	1	R20	1k,,,AXIAL	1.0k	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
22	2	R22,R23	2k,,,AXIAL	2.0k	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
23	1	R28	4.75k,,,AXIAL	4.75k	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
24	1	R21	20k,,,AXIAL	20.0k	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
25	2	R15,R16	100k,,,AXIAL	100.0k	1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial			Lab Stock
26	1	R11	0.01,,,	0.010	1%	1W	Precision Current Sense Resistor, SR10	Caddock	SR10-0.01-1%	Mouser 800-346-6873
27	1	R1	392,,,	392	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
28	1	R3	1.58k,,,	1.58k	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
29	1	R6	3.92k,,,	3.92k	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
30	1	R7	35.7k,,,	35.7k	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
31	6	R2,R4,R12,R14,R17,R18	10k,,,	10k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
32	2	R5,R8	100k,,,	100k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
33	1	R26	340k,,,	240k	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
34	4	R9,R10,R19,R27	1M,,,	1M	1%	1/8W	Metal Film, +/-100 ppm TC, SMD 1206			Lab Stock
35	1	RP1	1Mx9,,,	1 M	2%	-	SIP Network, 1 common pin	Bourns	4310R-1-105	Digi-Key 800-344-4539
36	3	D1,D6,D7	MBRS340T3,,,	MBRS340T3	-	40VDC	Schottky Power Rectifier 3.0 Amps	ON Semiconductor	MBRS340T3	ClassicIC 800-952-4440
37	6	D2,D3,D4,D9,D10,D11	MBR0530T1,,,	MBR0530T1	-	30VDC	Schottky Power Rectifier 0.5 Amps	ON Semiconductor	MBR0530T1	ClassicIC 800-952-4440
38	1	D8	DIODE DUAL SCHOTTKY,,,	MBRD1035CTL	-	35VDC	Dual 5.0 Amp Schottky Power Rectifiers	ON Semiconductor	MBRD1035CTL	ClassicIC 800-952-4440
39	1	D5	BAS85,,,	BAS85	-	30VDC	Schottky Signal Diode 200 mA	General Semi	BAS85	ClassicIC 800-952-4440
40	1	Z1	ZMM5240,,,	10 VDC	-	500 mW	Zener Diode, 10.0 VDC	General Semi	ZMM5240	ClassicIC 800-952-4440
41	1	Q10	IRF7210,,,	IRF7002	-	-12V	P-Channel, Id -12A, Rds 0.007 Ohm, SO-8	IRF	IRF7210	Newark 800-463-9275
42	5	Q3,Q4,Q5,Q6,Q7	SI4412DY,,,	Si4412	-	+30VDC	N-Channel, Id 8A, Rds 24 mOhm, S08	Vishay	Si4412DY	ClassicIC 800-952-4440
43	1	Q15	SI4835BDY,,,	Si4835	-	-30V	P-Channel, Id 8A, Rds 20 mOhm, S08	Vishay	Si4835BDY	Mouser 800-346-6873
44	7	Q1,Q2,Q8,Q9,Q11,Q12,Q14	2N7002,,,	2N7002	-	+60VDC	N-Channel, Id .5A, Rds 7.5 Ohm, SOT-23	Zetex	2N7002CT	ClassicIC 800-952-4440
45	1	Q13	BSS84,,,	BSS84	-	-50V	P-Channel, Id .13A, Rds 10 Ohm, SOT-23	Fairchild	BSS84LT1	Digi-Key 800-344-4539
46	1	U13	74AHC273,,,	74AHC273	-	-	Octal D Flip-Flop with Reset, SOIC	TI	SN74AHC273DW	Digi-Key 800-344-4539
47	1	U11	74AHC373,,,	74AHC373	-	-	Octal Tri-State Transparent Latch, SOIC	TI	SN74AHC373DW	Digi-Key 800-344-4539
48	1	U12	74AHC374,,,	74AHC374	-	-	Octal Tri-State Latch, SOIC	TI	SN74AHC374DW	Digi-Key 800-344-4539
49	1	U5	DS1994,,,	DS1994	-	-	Real-Time Clock with 1-Wire Interface	Dallas	DS1994L-F5, DS9094F	Socket Maxim 972-371-6824
50	1	U6	MAX6371,,,	MAX6371	-	-	Pin Selectable Watchdog Timer, SOT23-8	Maxim	MAX6371KA	Maxim 972-371-6824
51	1	U15	MAX6348,,,	MAX6348	-	-	Ultra-Low Power uP Reset, SOT23-3	Maxim	MAX6348UR__-T	Maxim 972-371-6824
52	2	U1,U4	LTC1625,,,	LTC1625	-	-	Current-Mode Synchronous Switcher, S0	Linear	LTC1625CS	Digi-Key 800-344-4539
53	1	U3	LTC1693-1,,,	LTC1693-1	-	-	N-Channel MOSFET Driver, S08	Linear	LTC1691-1CS8	ClassicIC 800-952-4440

