

Item	Quantity	Reference	Part	Value	Tol	Rating	Type	Manufacturer	Part Number	Supplier
1	3	C26, C30, C31	330uF,,10V,TANT	330 uF	10%	10VDC	Solid Tantalum, Ultra-Low ESR	Kemet	T510X337K010AS	Kemet Electronics
2	4	C25, C27, C28, C29	100uF,,16V,TANT	100 uF	10%	16VDC	Solid Tantalum, Low ESR, Surge Robust	Kemet	T495X107K016AS	Kemet Electronics
3	4	C3, C4, C6, C8	33uF,,35V,TANT	33 uF	10%	35VDC	Solid Tantalum, Low ESR, Industrial	Kemet	T494X336K035AS	Kemet Electronics
4	5	C12, C15, C33, C34, C35	4.7uF,,10V,TANT	4.7 uF	10%	10VDC	Solid Tantalum, Low ESR, Industrial	Kemet	T494A475K010AS	Kemet Electronics
5	2	C7, C5	10uF,,50V,CER	10 uF	+22/-82	50VDC	Monolithic Ceramic Cap, Smoothing Type	Murata	GJ243XF51H106ZD12	
6	1	C11	0.33uF,,25V,X7R	0.33 uF	20%	25VDC	Monolithic Ceramic Cap, X7R Dielectric	AVX	12063C334MAT1A	ClassicIC 800-952-4440
7	1	C10	0.22uF,,25V,X7R	0.22 uF	20%	25VDC	Monolithic Ceramic Cap, X7R Dielectric	AVX	12063C224MAT1A	ClassicIC 800-952-4440
8	4	C9, C13, C14, C19	0.1uF,,25V,X7R	0.10 uF	20%	25VDC	Monolithic Ceramic Cap, X7R Dielectric	AVX	08053C104MAT1A	ClassicIC 800-952-4440
9	2	C23, C24	2.2nF,,50V,NPO	2.2 nF	10%	50VDC	Monolithic Ceramic Cap, COG Dielectric	AVX	08055A222KAT1A	ClassicIC 800-952-4440
10	1	C32	470pF,,50V,NPO	470 pF	10%	50VDC	Monolithic Ceramic Cap, COG Dielectric	AVX	06035A471KAT1A	ClassicIC 800-952-4440
11	6	C16, C17, C18, C20, C21, C22	220pF,,50V,NPO	220 pF	10%	50VDC	Monolithic Ceramic Cap, COG Dielectric	AVX	06035A221KAT1A	
12	2	C2, C1	0.1uF,5%,16V,MLF	0.1 uF	5%	16 V	Metallized Polyester, Radial (2.5mm)	Wima	MKS02 0.1/16/5	Capsco 408-734-3020
13	3	R1, R9, R19	TBD,,,	TBD	5%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	KOA		Digi-Key 800-344-4539
14	2	R7, R8	10,,,	10	5%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	KOA		Digi-Key 800-344-4539
15	1	R6	1150,0.25%,,	1150	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55J1150BS	Garrett 805-922-0594
16	1	R5	942,0.25%,,	942	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55H9420BS	Garrett 805-922-0594
17	1	R2	4.27k,0.25%,,	4.27k	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55J4271BS	Garrett 805-922-0594
18	1	R3	887,0.25%,,	887	0.1%	1/8W	Metal Film, +/-100 ppm TC, Mini Axial	Vishay	RNC55J8870BS	Garrett 805-922-0594
19	1	R12	392,,,	392	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
20	1	R18	1.58k,,,	1.58k	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
21	1	R10	3.92k,,,	3.92k	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
22	1	R21	35.7k,,,	35.7k	1%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
23	2	R13, R11	10k,,,	10k	5%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
24	1	R20	100k,,,	100k	5%	1/16W	Metal Film, +/-100 ppm TC, SMT-0603	TAD		Garrett 805-922-0594
25	8	R4, R14, R15, R16, R17, R22, R23, R24	1M,,,	1M	5%	1/16W	Metal Film, +/-100 ppm TC, SMT-0805	TAD		Garrett 805-922-0594
26	3	D2, D4, D7	MBRS340T3,,,	MBRS340T3	-	40VDC	Schottky Power Rectifier 3.0 Amps	ON Semiconductor	MBRS340T3	ClassicIC 800-952-4440
27	3	D1, D5, D6	MBR0530T1,,,	MBR0530T1	-	30VDC	Schottky Power Rectifier 0.5 Amps	ON Semiconductor	MBR0530T1	ClassicIC 800-952-4440
28	1	D3	MBRD1035CTL,,,	MBRD1035CTL	-	35VDC	Dual 5.0 Amp Schottky Power Rectifiers	ON Semiconductor	MBRD1035CTL	ClassicIC 800-952-4440
29	1	D8	BAS85,,,	BAS85	-	30VDC	Schottky Signal Diode 200 mA	General Semi	BAS85	ClassicIC 800-952-4440
30	1	Z2	ZMM5240,,,	10 VDC	-	500 mW	Zener Diode, 10.0 VDC	General Semi	ZMM5240	ClassicIC 800-952-4440
31	1	Z1	5KP22A,,,	24 VDC	5%	5kW peak	TransZorb Transient Voltage Supressor	General Semi	5KP22A	ClassicIC 800-952-4440
32	5	Q7, Q8, Q9, Q12, Q13	SI4435DY,,,	Si4435	-	-30VDC	P-Channel, Id 8A, Rds 20 mOhm, S08	Vishay/IRQ	Si4435DY	Digi-Key 800-344-4539
33	5	Q2, Q3, Q4, Q5, Q10	SI4412DY,,,	Si4412	-	+30VDC	N-Channel, Id 8A, Rds 24 mOhm, S08	Vishay	Si4412DY	ClassicIC 800-952-4440
34	4	Q1, Q6, Q11, Q14	2N7002,,,	2N7002	-	+60VDC	N-Channel, Id .5A, Rds 7.5 Ohm, SOT-23	Zetex	2N7002CT	ClassicIC 800-952-4440
35	2	U2, U3	LTC1625,,,	LTC1625	-	-	Current-Mode Synchronous Switcher, SO	Linear	LTC1625CS	Digi-Key 800-344-4539
36	1	U8	LTC1693-3,,,	LTC1693-3	-	-	N-Channel MOSFET Driver, MSOP	Linear	LTC1693-3CMS8	ClassicIC 800-952-4440
37	1	U9	LT1529,,,	LTC1529	-	-	3A Low Dropout Linear Regulator, DDPAK	Linear	LT1529CQ	Digi-Key 800-344-4539
38	1	U7	LT1121,,,	LTC1121-3.3	-	-	Micropower Low Dropout Regulator, SOT	Linear	LT1121CST-3.3	Digi-Key 800-344-4539
39	1	U1	MAX836,,,	MAX836	-	-	Micropower Voltage Monitor, SOT143	Maxim	MAX836EUS-T	Maxim
40	1	U6	MAX3181,,,	MAX3181	-	1Mbps	RS232 Recv w/valid data sig, SOT23-5	Maxim	MAX3181EUK-T	Maxim
41	1	U5	MAX3188,,,	MAX3188	-	250kbps	RS232 Xmitter w/enable, SOT23-6	Maxim	MAX3188EUT-T	Maxim
42	1	U11	DCP010505DB,,,	DCP01B	-	1W	Unreg DC/DC, +/-5VDC Output, Gull-Wing	TI	DCP010505DBP-U	Digi-Key 800-344-4539
43	1	U4	IS0150,,,	IS0150	-	-	Dual Isolated Data Coupler, SOIC	TI	IS0150AU	Digi-Key 800-344-4539
44	1	U10	4N25,,,	4N25	-	-	Optocoupler-Xistor Output, Gull-Wing	Vishay	4N25	ClassicIC 800-952-4440
45	1	J1	AMPLATCH_20,,,	20 Pin	-	-	2 Row Vertical Latching Header	AMP	102153-4	Digi-Key 800-344-4539
46	3	J2, J3, J4	SRW-PLUG-2,,,	2 Pin	-	8A	3.81mm OC Vertical Connector Header	Phoenix	1803426	Digi-Key 800-344-4539
47	1	F1	5A,, ,PC-TRON	5 A	-	-	Fuse, Solid Matrix	Bussman	PCE-5	Digi-Key 800-344-4539
48	3	FIL1, FIL2, FIL3	BNX002-01,, ,EMI_FILTER	-	-	50 VDC	EMI Filter, 10A, 4 Lead, "Block" Type	Murata Erie	BNX002-01	ClassicIC 800-952-4440
49	1	L1	15uH,,,	15 uH	+/-20%	3.4A RMS	SMT Power Inductor, DCR 48 mOhm	Coilcraft	DS5022P-153	ClassicIC 800-952-4440
50	1	L2	33uH,,,	33 uH	+/-20%	2.8A RMS	SMT Power Inductor, DCR 75 mOhm	Coilcraft	DS5022P-333	ClassicIC 800-952-4440
51	8	JP1, JP2, JP6, JP7, JP9, JP11, JP12, JP13	JMP_LRG,,,	NOTE: USE 18AWG BUS WIRE						
52	5	JP3, JP4, JP5, JP8, JP10	JMP_SML,,,	NOTE: USE 18AWG BUS WIRE						
53	1	JP14	JMP_SM,,,	NOTE: USE 22AWG BUS WIRE						