

Item	Quantity	Reference Part	Rating	Type	Tolerance	Footprint	Manufacturer	Manufacturer Code	Additional Notes	
1	1	C1	47uF	400V - 105°C	Aluminium Electrolytic	20%	D=16, H=20, LS=7.5	Nippon Chemicon	EKXJ401ELL470ML20S	
2	1	C2	47uF	400V - 105°C	Aluminium Electrolytic	20%	D=16, H=20, LS=7.5	Nippon Chemicon	EKXJ401ELL470ML20S	
3	1	C3	470pF	1kV	Multilayer Ceramic X7R	10%	1206	Murata	GRM31BR73A471KW01L	
4	1	C4	47pF	1kV	Multilayer Ceramic COG	5%	1206	Samsung	CL31C470J1FNFE	Not mouted
5	1	C5	0.1uF X2	305Vac	EMI Suppression MKP	20%	L=13, H=12, T=6, P=10	TDK	B32921C3104M189	
6	1	C6	22uF	50V - 105°C	Aluminium Electrolytic	20%	D=5, H=11, LS=2	Rubycon	50YXM22MEFC5X11	
7	1	C7	0.1uF	50V	Multilayer Ceramic X7R	10%	0603	Kemet	C0603C104K5RACTU	
8	1	C24	0.1uF	50V	Multilayer Ceramic X7R	10%	0603	Kemet	C0603C104K5RACTU	
9	1	C22	0.033uF	50V	Multilayer Ceramic X7R	10%	0603	Kemet	C0603X333K5X7RAC	
10	1	C8	4u7	100V	Multilayer Ceramic X7R	10%	1210	AVX	12101C475J3X7RAC	
11	1	C19	4u7	25V	Multilayer Ceramic X7R	5%	1206	Kemet	C1206X475J3X7RAC	
12	1	C27	10uF	25V	Multilayer Ceramic X7R	5%	1206	Kemet	C1206C106J3RACAUTO	
13	1	C21	10uF	25V	Multilayer Ceramic X7R	5%	1206	Kemet	C1206C106J3RACAUTO	
14	1	C9	560uF	25V - 105°C	Aluminium Conductive Polyme	20%	D=10, H=12, LS=5	Kemet	A750M5567M1EBAE01S	
15	1	C10	560uF	25V - 105°C	Aluminium Conductive Polyme	20%	D=10, H=12, LS=5	Kemet	A750M5567M1EBAE01S	
16	1	C11	1uF	50V	Multilayer Ceramic X7R	10%	0805	Samsung	CL21B105KBFNNNE	
17	1	C25	1uF	10V	Multilayer Ceramic X7R	5%	0805	Kemet	C0805C105J4RACTU	
18	1	C26	1uF	10V	Multilayer Ceramic X7R	5%	0805	Kemet	C0805C105J4RACTU	
19	1	C23	0.47uF	50V	Multilayer Ceramic X7R	10%	0805	AVX	08055C474K4T2A	
20	1	C13	100pF	50V	Multilayer Ceramic X7R	10%	0603	Kemet	C0603C101J2GAC	Not mouted
21	1	C20	100pF	50V	Multilayer Ceramic X7R	10%	0603	Kemet	C0603C101J2GAC	Not mouted
22	1	C14	47pF	50V	Multilayer Ceramic X7R	10%	0603	Kemet	C0603X47K5X7RAC	
23	1	C15	4.7nF	250Vrms - 85°C	X1 Y1 Ceramic	20%	D=9, T=5, LS=10	Murata	DE1E3RA472MA4BN01F	
24	1	C17	1uF	50V	Multilayer Ceramic X7R	10%	0805	Samsung	CL21B105KBFNNNE	
25	1	C18	1nF	2kV	Multilayer Ceramic X7R	10%	1206	JohansonDielectrics	202R18W102KV4E	
26	1	D1	3A - 600V	3A - 600V	Bridge Rectifier	L=14.8, H=10.6, LS=3.6	Diodes	KBP306G		
27	1	D2	RS1K	1A - 800V	Fast Switching Rectifier	SMA	Vishay	RS1K		
28	1	D3	1N4148WS	150mA - 70V	Signal Diode	SOD-323	Fairchild	1N4148WS		
29	1	D4	BAV21W	250mA - 250V	Small Signal Switching Diodes	SOD-123	Vishay	BAV21W		
30	1	D5	BZV55-C18	18V - 500mW	Zener Diode	5% SOD80C	Nexperia	BZV55-C18		
31	1	D11	SMAZ24	24V - 1W	Zener Diode	5% SMA	Diodes	SMAZ24		
32	1	D6	RS1K	1A - 800V	Fast Switching Rectifier	SMA	Vishay	RS1K		
33	1	D7	BAT43WS	0.200W	Schottky Diode	SOD-323	Diodes	BAT43WS		
34	1	D8	BAV21W	0.250W	Switching Diode	SOD-123	Diodes	BAV21W		
35	1	D9	1N4148WS	150mA - 70V	Signal Diode	SOD-323	Fairchild	1N4148WS		
36	1	D10	1N4148WS	150mA - 70V	Signal Diode	SOD-323	Fairchild	1N4148WS		
37	1	D12	ESDAL	10mA - 1.2V	Dual Transil	SOT23	STMicroelectronics	ESDA25L		
38	1	F1	3.15A - 300Vac	3.15A - 300Vac	Time-Delay Fuses	L=4.3, H=7.85, LS=5.08	Copper Bussmann	SS-5H-3-15A-BK		
39	1	J1	AC IN	20A - 300 Vac	PCB Header Male/Female	2 pin - 5.08 mm	Würrth Electronics	691311500102 / 691351500002		
40	1	J2	DC OUT		Connector USB 3.1,type C,90°	24 pins - p. 0.5mm	MOLEX	2012670005		Farnell
41	1	RT1	2.2R	7A	NTC	20% Ø15 x 7 x p.7.5 mm	Epcos	B57237S0229M000		
42	1	RT2	100K	100mW	NTC	1% 0603	Vishay	NTCS0603E3104FXT		
43	1	RT3	100K	100mW	NTC	1% 0603	Vishay	NTCS0603E3104FXT		Not mouted
44	1	RV1	275Vac	25A	SIOV metal oxide varistors	L=12, H=14.5, LS=7.5	Epcos	B72210S0271K101		
45	1	Q1	STD7N65M6	0.91ohm - 650V	Power Mosfet	DPACK	STMicroelectronics	SD7N65M6		
46	1	Q2	STL110N10F7	0.006ohm - 100V	Power Mosfet	PQFN 5x6mm	STMicroelectronics	STL110N10F7		
47	1	Q3	BSS169	12ohm - 100V	Power Mosfet	SOT23	Infineon	BSS169H6327XTSA1		
48	1	Q4	DMP3013SFV	0.0095ohm - 30V	Power Mosfet	PowerDI3333-8	Diodes	DMP30175FGQ-7		
49	1	Q5	DMP3013SFV	0.0095ohm - 30V	Power Mosfet	PowerDI3333-8	Diodes	DMP30175FGQ-7		
50	1	R1	180k	0.5W	Anti-Surge Thick Film Chip	5% 0805	Panasonic	ERJ-P06J1803V		
51	1	R2	180k	0.5W	Anti-Surge Thick Film Chip	5% 0805	Panasonic	ERJ-P06J1803V		
52	1	R3	18R	0.5W	Anti-Surge Thick Film Chip	5% 1206	Panasonic	ERJP08J180V		
53	1	R4	4R7	0.125W	Thick Film Chip	5% 0805	Vishay	CRCW08054R70JKEA		
54	1	R27	47R	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW060347R0JKEA		
55	1	R28	330R	0.0625W	Thick Film Chip	1% 0603	Yageo	RC0603FR-07330RL		
56	1	R29	100R	0.0625W	Thick Film Chip	1% 0603	Yageo	RC0603FR-07100RL		
57	1	R20	0R36	0.5W	Flat Chip	1% 1206	TE	RLP73K2BR36FTDF		
58	1	R6	0R36	0.5W	Flat Chip	1% 1206	TE	RLP73K2BR36FTDF		
59	1	R7	0R	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW06030000JKEA		
60	1	R8	100k	0.125W	Thick Film Chip	1% 0805	Yageo	RC0805FR-07100KL		
61	1	R26	100k	0.0625W	Thick Film Chip	1% 0603	Yageo	RC0603FR-07100KL		
62	1	R42	10k	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW060310KJKEA		
63	1	R9	7k5	0.125W	Thick Film Chip	1% 0805	Vishay	CRCW08057K50FKEA		
64	1	R21	68k	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW060368K0JKEA		
65	1	R24	14k	0.125W	Thick Film Chip	5% 0805	Vishay	CRCW080514K0JKEA		
66										
67	1	R37	15k	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW060315KJKEA		
68	1	R36	1k	0.0625W	Thick Film Chip	1% 0603	Yageo	RC0603FR-071KL		
69										
70	1	R44	0R	0.125W	Thick Film Chip	5% 0805	Vishay	CRCW08050000JKEA		
71										
72	1	R18	4.7M	0.250W	Thick Film Chip	5% 1206	Vishay	CRCW12064M7JKEA		Not Mounted
73	1	R19	4.7M	0.250W	Thick Film Chip	5% 1206	Vishay	CRCW12064M7JKEA		Not Mounted
74	1	R25	47k	0.125W	Thick Film Chip	1% 0805	Yageo	RC0805FR-0747KL		
75	1	R30	47k	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW060347K0JKEA		

76	1 R22	18R	0.250W	Thick Film Chip	1% 1206		
77	1 R23	150k	0.125W	Thick Film Chip	5% 0805	Vishay	CRCW0805150KJKEA
78	1 R31	OR010	0.750W	Power Thick Film Chip	1% 1206	SSM	KRL1632E-C-R010-F
79	1 R32	10k	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW060310K0JKEA
80	1 R39	4k7	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW06034K70JKEA
81	1 R40	4k7	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW06034K70JKEA
82	1 R41	4.7k	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW06034K70JKEA
83	1 R33	100R	0.5W	Thick Film Chip	1% 0805	Panasonic	ERJP06F1000V
84	1 R35	3k	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW06033K0JKEA
85	1 R34	33R	0.250W	Thick Film Chip	1% 1206	Yageo	RC1206FR-0733RL
86	1 R45	510R	0.0625W	Thick Film Chip	1% 0603	Yageo	RC0603FR-07510RL
87	1 R10	OR	0.0625W	Thick Film Chip	5% 0603	Vishay	CRCW06030000JKEA
88	1 T1	TRNSFMR	400uH	Transformer	10% RM8	Würth Electronics	750344353/4
89	1 L1	47uH	1.8A	Fixed Inductor	10% D=9.5 H=8, LS=5	Würth Electronics	744732470
90							
91	1 U1	STCH03		Offline PWM Controller	SO8	STMicroelectronics	STCH03
92	1 U3	SFH617A-2		Optocoupler	SMD-4	Vishay	SFH617A-2X017
93	1 U4	SRK1001		Synchronous Rectification Controller	SO8	STMicroelectronic	SRK1001
94	1 U5	STUSB4761		USB PD Controller	QFN16	STMicroelectronic	STUSB4761
95	4	PST-7-01		Stand-Off	ø4.5xh11.1	Essentra	PST-7-01
96	1	PCB		CB11.V02	FR4 50mmx70mm		
97	1 TP10	2501		Turret	ø2.3xh8.4	Mill_Max	2501-2-00-80-00-00-07-0
98	1 TP11	2501		Turret	ø2.3xh8.4	Mill_Max	2501-2-00-80-00-00-07-0
99	1 TP13	Keystone_5000		Red Test Point	ø1	Keystone	Keystone_5000