

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
1	D1, D105	2	-	TRS8E65F	TOSHIBA	SiC Schottky Barrier Diode	TO-220-2L	Through Hole	
2	D2, D102, D103, D104	4	-	STPSC8H065B-TR	STMicroelectronics	SiC Schottky Barrier Diode	DPAK	6.6 x 10.1	
3	D3, D101, D106, D107	4	-	CUS01	TOSHIBA	Schottky Barrier Diode	US-FLAT	1.25 x 2.50	
4	D4	1	-	UD3KB80	Shindengen	Bridge Diode	D3K	Through Hole	
5	D8, D100	2	-	CRZ20	TOSHIBA	Zener Diode	S-FLAT	1.6 x 3.5	
6	D9	1	-	CUS04	TOSHIBA	Schottky Barrier Diode	US-FLAT	1.25 x 2.50	
7	D10, D11	2	-	CRZ16	TOSHIBA	Zener Diode	S-FLAT	1.6 x 3.5	
8	DS100	1	-	TLP383	TOSHIBA	Photocoupler	SO6L	3.84 x 10.0	
9	IC1	1	-	UCC28051	Texas Instruments	PFC Controller	SOIC-8	6.0 x 4.9	
10	IC100	1	-	UCC28600	Texas Instruments	Flyback Controller	SOIC-8	6.0 x 4.9	
11	IC101, IC102	2	-	TPS54061DRB	Texas Instruments	DC-DC Converter	VSON-8	3.0 x 3.0	
12	IC103	1	-	NCV20071SN2T1G	ON Semiconductor	OP AMP	TSOP-5	3.15 x 3.0	
13	IC104	1	-	TL431AIDBZR	Texas Instruments	Shunt Regulator	SOT-23-3	3.04 x 2.64	
14	L1	1	230 $\mu$ H	PFC3125ER-231K06B-00	TDK	9:1, 6.4 A		Through Hole	
15	L2	1	330 $\mu$ H	B82730U3262A020	EPCOS	2.6 A, 300 VAC		Through Hole	
16	L100, L101	2	150 $\mu$ H	82154C	Murata Power Solutions	$\pm$ 10 %, 130 mA		3.2 x 2.5 (1210)	
17	Q1	1	-	TK290A60Y	TOSHIBA	MOSFET	TO-220SIS	Through Hole	
18	Q100	1	-	2SA1588	TOSHIBA	Transistor	SC-70	2.0 x 2.1	
19	Q101	1	-	TK290A65Y	TOSHIBA	MOSFET	TO-220SIS	Through Hole	
20	RY1	1	-	ALDP112W	PANASONIC	12 VDC, 277 VAC, 5 A		Through Hole	
21	T1	1	-	Y18T210-61B	GrowWill	40:22:28:22		Through Hole	
22	VR1	1	-	ERZE14A511	PANASONIC	320 VAC		Through Hole	
23	F1	1	-	04773.15	Littelfuse	500 VAC, 3.15 A		Through Hole	
24	C1, C13, C101, C108, C119, C123	6	0.1 $\mu$ F			Ceramic, 25 V, $\pm$ 10 %		1.0 x 0.5 (0402)	
25	C2, C6, C10	3	1000 pF			Ceramic, 25 V, $\pm$ 10%		1.0 x 0.5 (0402)	
26	C3	1	150 $\mu$ F	LLG2W151MELA25	NICHICON	Aluminum Electrolytic, 450 V, $\pm$ 20 %		Through Hole	
27	C4, C8	2	0.15 $\mu$ F	890334023025	Wurth Elektronik	Film, 310 VAC, $\pm$ 10 %		Through Hole	
28	C5	1	0.022 $\mu$ F			Film, 630 V, $\pm$ 10 %		Through Hole	
29	C9	1	4.7 $\mu$ F			Ceramic, 25 V, $\pm$ 10 %		1.6 x 0.8 (0603)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
30	C11	1	0.56 $\mu$ F			Ceramic, 50 V, $\pm 10$ %		2.0 x 1.2 (0805)	
31	C12	1	47 pF			Ceramic, 100 V, $\pm 5$ %		1.6 x 0.8 (0603)	
32	C100	1	0.022 $\mu$ F			Ceramic, 25 V, $\pm 10$ %		1.0 x 0.5 (0402)	
33	C102, C118	2	10 $\mu$ F			Ceramic, 25 V, $\pm 10$ %		2.0 x 1.2 (0805)	
34	C103, C117	2	5 pF			Ceramic, 100 V, $\pm 5$ %		1.6 x 0.8 (0603)	
35	C104, C115	2	0.01 $\mu$ F			Ceramic, 100 V, $\pm 10$ %		1.0 x 0.5 (0402)	
36	C105, C116	2	0.056 $\mu$ F			Ceramic, 100 V, $\pm 10$ %		2.0 x 1.2 (0805)	
37	C106, C110	2	1 $\mu$ F			Ceramic, 100 V, $\pm 10$ %		2.0 x 1.2 (0805)	
38	C107	1	6800 pF			Ceramic, 630 V, $\pm 10$ %		3.2 x 1.6 (1206)	
39	C109	1	470 pF			Ceramic Disc, 250 VAC, $\pm 10$ %		Through Hole	
40	C111, C121	2	100 $\mu$ F			Aluminum Electrolytic, 160 V, $\pm 20$ %		Through Hole	
41	C112, C122	2	0.1 $\mu$ F			Ceramic, 250 V, $\pm 10$ %		3.2 x 1.6 (1206)	
42	C113	1	0.1 $\mu$ F			Ceramic, 25 V, $\pm 10$ %		1.6 x 0.8 (0603)	
43	C114	1	1 $\mu$ F			Ceramic, 25 V, $\pm 10$ %		1.6 x 0.8 (0603)	
44	C124, C125	2	10 $\mu$ F			Ceramic, 35 V, $\pm 10$ %		3.2 x 2.5 (1210)	
45	C126, C127	2	0.47 $\mu$ F			Ceramic, 630 V, $\pm 10$ %		5.7 x 5.0 (2220)	
46	R1	1	6.49 k			200 mW, $\pm 0.1$ %		1.6 x 0.8 (0603)	
47	R2, R9, R23, R24	4	205 k			250 mW, $\pm 0.1$ %		3.2 x 1.6 (1206)	
48	R3	1	6.8 k			100 mW, $\pm 1$ %		1.6 x 0.8 (0603)	
49	R5, R8, R25	3	330 k			250 mW, $\pm 1$ %		3.2 x 1.6 (1206)	
50	R6	1	1 k			500 mW, $\pm 5$ %		2.0 x 1.2 (0805)	
51	R7, R26	2	0.68			1.33 W, $\pm 1$ %		6.4 x 3.2 (2512)	
52	R10	1	47			0.5W, $\pm 5$ %		2.0 x 1.2 (0805)	
53	R11	1	330			100 mW, $\pm 5$ %		1.0 x 0.5 (0402)	
54	R12	1	47			125 mW, $\pm 5$ %		1.6 x 0.8 (0603)	
55	R13	1	3.3 k			200 mW, $\pm 0.5$ %		1.0 x 0.5 (0402)	
56	R14	1	33 k			100 mW, $\pm 5$ %		1.0 x 0.5 (0402)	
57	R15	1	15			5 W, $\pm 2$ %		Through Hole	

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58	R16	1	220			500 mW, $\pm 1$ %		3.2 x 2.5 (1210)	
59	R17	1	10 k			100 mW, $\pm 5$ %		1.6 x 0.8 (0603)	
60	R18	1	187 k			250 mW, $\pm 0.1$ %		3.2 x 1.6 (1206)	
61	R100	1	10			100 mW, $\pm 5$ %		1.0 x 0.5 (0402)	
62	R101	1	680			100 mW, $\pm 5$ %		1.0 x 0.5 (0402)	
63	R102	1	3.3 k			200 mW, $\pm 5$ %		1.0 x 0.5 (0402)	
64	R103	1	200 k			0.1W, $\pm 0.1\%$		1.6 x 0.8 (0603)	
65	R104, R131	2	10 k			100 mW, $\pm 1$ %		1.6 x 0.8 (0603)	
66	R105, R106, R107	3	560 k			250 mW, $\pm 5$ %		3.2 x 1.6 (1206)	
67	R108	1	17.8 k			100 mW, $\pm 1$ %		1.0 x 0.5 (0402)	
68	R109, R129	2	620 k			250 mW, $\pm 0.1$ %		2.0 x 1.2 (0805)	
69	R110	1	590			100 mW, $\pm 1$ %		1.0 x 0.5 (0402)	
70	R111, R112	2	10			125 mW, $\pm 5$ %		1.6 x 0.8 (0603)	
71	R113, R125	2	464 k			125 mW, $\pm 0.1$ %		2.0 x 1.2 (0805)	
72	R114	1	10 k			100 mW, $\pm 5$ %		1.0 x 0.5 (0402)	
73	R115	1	620 k			100 mW, $\pm 1$ %		1.0 x 0.5 (0402)	
74	R116	1	43 k			100 mW, $\pm 1$ %		1.0 x 0.5 (0402)	
75	R117, R137	2	0.47			500 mW, $\pm 1$ %		2.0 x 1.2 (0805)	
76	R118	1	13			500 mW, $\pm 1$ %		2.0 x 1.2 (0805)	
77	R119	1	47 k			100 mW, $\pm 1$ %		1.6 x 0.8 (0603)	
78	R120, R138	2	6.2 k			20 W, $\pm 5$ %		Through Hole	
79	R121	1	560 k			500 mW, $\pm 1$ %		2.0 x 1.2 (0805)	
80	R122	1	330			125 mW, $\pm 5\%$		1.6 x 0.8 (0603)	
81	R123	1	62 k			100 mW, $\pm 1$ %		1.0 x 0.5 (0402)	
82	R124	1	4.3 k			100 mW, $\pm 1$ %		1.0 x 0.5 (0402)	
83	R126	1	150 k			100 mW, $\pm 0.1$ %		1.6 x 0.8 (0603)	
84	R127, R128	2	2 k			500 mW, $\pm 5$ %		2.0 x 1.2 (0805)	
85	R130	1	215 k			63 mW, $\pm 0.1$ %		1.6 x 0.8 (0603)	

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86	R132	1	470			125 mW, $\pm 1\%$		1.6 x 0.8 (0603)	
87	R133, R134	2	1			500 mW, $\pm 1\%$		3.2 x 2.5 (1210)	
88	R135	1	120 k			100 mW, $\pm 0.1\%$		1.6 x 0.8 (0603)	
89	R136	1	31.6 k			63 mW, $\pm 0.1\%$		1.0 x 0.5 (0402)	
90	R139	1	0			2 A		3.2 x 1.6 (1206)	
91	R140, R141, R142	3	0			1 A		1.6 x 0.8 (0603)	
92	R146, R147, R148, R149	4	470 k			125 mW, $\pm 5\%$		2.0 x 1.2 (0805)	
93	E1	1	-	DD1807941_P1	-	Heat Sink		-	
94	E2, E4	2	-	DD1807941_P2	-	Heat Sink		-	
95	E3	1	-	DD1808663	-	Heat Sink		-	
96	C14, C15	2	-			-		3.2 x 1.6 (1206)	Not Mounted
97	C120	1	-			-		1.6 x 0.8 (0603)	Not Mounted
98	R19, R20, R21, R22	4	-			-		3.2 x 2.5 (1210)	Not Mounted
99	R145	1	-			-		2.0 x 1.2 (0805)	Not Mounted

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