

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
1	IC303	1		<a href="#">DCL540C01</a>	<a href="#">TOSHIBA</a>	Digital Isolator	SOIC16-W		
2	IC403, IC451	2		<a href="#">TCR1HF50B</a>	<a href="#">TOSHIBA</a>	Regulator, 40V, V_OUT=5.0V	SOT-25 (SMV)		
3	IC1	1		HF81	MPS	X-CAP Bleeder			
4	IC51	1		UCC28070A	TI	PFC Controller			
5	IC151, IC201	2		UCC27524AD	TI	Gate Driver			
6	IC251	1		UCC28951	TI	PSFB Controller			
7	IC301, IC302	2		NJU7704F3-42A	Nisshinbo	Voltage Detector			
8	IC401	1		UCC28711DR	TI	Flyback Controller			
9	IC402	1		LM317MDCY	TI	Regulator			
10	IC501	1		LM74700-Q1	TI	ORing Controller			
11	Q151, Q152, Q153, Q154, Q155, Q156, Q201, Q202, Q203, Q204, Q205, Q206	12		<a href="#">TPW2900ENH</a>	<a href="#">TOSHIBA</a>	N-ch MOSFET, 200V, 30A	DSOP Advance		
12	Q301, Q351	2		<a href="#">SSM3K15AMFV</a>	<a href="#">TOSHIBA</a>	N-ch MOSFET, 30V, 100mA	SOT-723 (VESM)		
13	Q401	1		<a href="#">TK12A80W</a>	<a href="#">TOSHIBA</a>	N-ch MOSFET, 800V, 11.5A	TO-220SIS		
14	Q501, Q502, Q503, Q504, Q506, Q507	6		<a href="#">TPM1R908QM</a>	<a href="#">TOSHIBA</a>	N-ch MOSFET, 80V, 238A	SOP Advance(E)		
15	D1, D302	2		<a href="#">XCUZ5V6</a>	<a href="#">TOSHIBA</a>	Zener Diode, 5.6V, 0.2W	SOD-323 (USC)		
16	D2, D251	2		<a href="#">BAS316</a>	<a href="#">TOSHIBA</a>	Switching Diode, 100V, 0.25A	SOD-323 (USC)		
17	D51, D52, D53, D54	4		<a href="#">CRG04A</a>	<a href="#">TOSHIBA</a>	Rectification , 600V, 1A	S-FLAT		
18	D56	1		<a href="#">CRZ15</a>	<a href="#">TOSHIBA</a>	Zener Diode, 15V	S-FLAT		NOT MOUNT
19	D101, D102	2		<a href="#">TRS8E65H</a>	<a href="#">TOSHIBA</a>	SiC Barrier Diode, 650V, 8A	TO-220-2L		
20	D151, D152, D154, D155, D201, D202, D204, D205	8		<a href="#">CUHS15S30</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 30V, 1.5A	SOD-323HE (US2H)		
21	D153, D156, D203, D206	4		<a href="#">TBAT54</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 30V, 0.2A	SOT-23 (SOT23)		
22	D157, D158, D207, D208	4		<a href="#">CMH01</a>	<a href="#">TOSHIBA</a>	High Efficiency Diode, 200V, 3A	M-FLAT		
23	D303	1		<a href="#">1SS352</a>	<a href="#">TOSHIBA</a>	Switching Diode, 80V, 0.1A	SOD-323 (USC)		
24	D304	1		<a href="#">1SS405</a>	<a href="#">TOSHIBA</a>	Switching Diode, 20V, 0.05A	SOD-523 (ESC)		
25	D401	1		<a href="#">CRF03A</a>	<a href="#">TOSHIBA</a>	FRD, 600V, 0.7A	S-FLAT		
26	D402, D403	2		<a href="#">CRH01</a>	<a href="#">TOSHIBA</a>	High Efficiency Diode, 200V, 1A	S-FLAT		
27	D404	1		<a href="#">CRS01</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 30V, 1A	S-FLAT		
28	D55	1		GSIB2580	Vishay	Bridge Rectifier, 800V, 3.5A			
29	D405	0		<a href="#">BAS316</a>	<a href="#">TOSHIBA</a>	Zener Diode, 15V	S-FLAT		NOT MOUNT
30	D451	1		RF501BGE2S	Rohm	FRD, 200V, 5A	D-PAK		
31	DS301	1		<a href="#">TLP385</a>	<a href="#">TOSHIBA</a>	Photocoupler, V <sub>CEO</sub> =80V	4pin SO6L		

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32	R1, R2	2	75kΩ			500mW, ±1%		3.2 x 2.5 (1210)	
33	R3, R4	2	33Ω	Y5JA-330JPTL3.5	Uchihashi Estec	Thermal Fuse, 2.8W, ±5%			
34	R51, R52, R354, R357, R360, R363	6	1kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
35	R53, R54, R55, R70, R71, R72	6	1MΩ			250mW, ±0.5%		3.2 x 1.6 (1206)	
36	R56, R73	2	1.2kΩ			63mW, ±0.5%		1.0 x 0.5 (0402)	
37	R57, R74, R280, R281	4	22kΩ			63mW, ±0.5%		1.0 x 0.5 (0402)	
38	R58, R313	2	47kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
39	R59	1	47kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
40	R60, R65	2	3.3kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
41	R61, R258	2	33kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
42	R62, R69	2	120kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
43	R63	1	56kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
44	R64, R151, R201, R416	4	1Ω			63mW, ±5%		1.0 x 0.5 (0402)	
45	R66	1	3.9kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
46	R67, R68, R271	3	18kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
47	R101, R102	2	300kΩ			1W, ±5%		6.3 x 3.2 (2412)	
48	R152, R155, R202, R205, R402	5	10Ω			250mW, ±5%		2.0 x 1.25 (0805)	
49	R153, R156, R203, R206, R504	5	3Ω			250mW, ±5%		2.0 x 1.25 (0805)	
50	R154, R157, R204, R207, R403	5	10kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
51	R158, R208	2	100kΩ			250mW, ±1%		3.2 x 1.6 (1206)	
52	R159, R209	2	27kΩ			1W, ±5%		6.4 x 3.2 (2512)	
53	R160, R210	2	100kΩ			250mW, ±1%		3.2 x 1.6 (1206)	NOT MOUNT
54	R251	1	330Ω			250mW, ±5%		3.2 x 1.6 (1206)	
55	R252	1	13kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
56	R253	1	15kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
57	R254, R305	2	90kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
58	R255	1	18kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
59	R256, R408	2	22Ω			63mW, ±5%		1.0 x 0.5 (0402)	
60	R257	1	47kΩ			63mW, ±1%		1.0 x 0.5 (0402)	

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61	R259	1	12kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
62	R260	1	220Ω			63mW, ±5%		1.0 x 0.5 (0402)	
63	R261, R264, R265	3	6.8kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
64	R262, R263	2	6.8kΩ			63mW, ±5%		1.0 x 0.5 (0402)	NOT MOUNT
65	R266, R267, R417	3	2.2kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
66	R268, R270, R312, R454, R505, R506	6	0Ω			1A		1.0 x 0.5 (0402)	
67	R269, R277	2	0Ω			1A		1.0 x 0.5 (0402)	NOT MOUNT
68	R272	1	430Ω			63mW, ±5%		1.0 x 0.5 (0402)	
69	R273	1	680Ω			63mW, ±5%		1.0 x 0.5 (0402)	
70	R274, R275, R276	3	33Ω			250mW, ±5%		3.2 x 1.6 (1206)	
71	R278	1	36kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
72	R279	1	6.8kΩ			63mW, ±0.5%		1.0 x 0.5 (0402)	
73	R282	1	2.2kΩ			63mW, ±0.5%		1.0 x 0.5 (0402)	
74	R283, R414	2	470Ω			63mW, ±0.5%		1.0 x 0.5 (0402)	
75	R284	1	36Ω			250mW, ±5%		3.2 x 1.6 (1206)	NOT MOUNT
76	R301, R302, R303, R304, R309, R310, R311	7	1MΩ			250mW, ±5%		3.2 x 1.6 (1206)	
77	R306	1	12kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
78	R307	1	680kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
79	R308, R353	2	10Ω			63mW, ±5%		1.0 x 0.5 (0402)	
80	R314, R315, R351, R352	4	22kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
81	R316	1	3.3kΩ			250mW, ±5%		3.2 x 1.6 (1206)	
82	R317	1	1.2kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
83	R355, R358, R361, R364	4	4.7kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
84	R356, R359, R362, R365	4	2.2kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
85	R401	1	27kΩ	PR0300020 2702JAC00	Vishay	Metal Film, 3W, ±5%			
86	R404, R405, R406	3	1.2Ω			250mW, ±1%		3.2 x 1.6 (1206)	
87	R407	1	100kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
88	R409	1	3.3kΩ			63mW, ±5%		1.0 x 0.5 (0402)	
89	R410	1	100kΩ			63mW, ±1%		1.0 x 0.5 (0402)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
90	R411	1	22kΩ			63mW, ±1%		1.0 x 0.5 (0402)	
91	R412	1	33Ω			63mW, ±5%		1.0 x 0.5 (0402)	
92	R413	1	6.2kΩ			63mW, ±0.5%		1.0 x 0.5 (0402)	
93	R415, R453	2	100Ω			63mW, ±5%		1.0 x 0.5 (0402)	
94	R451	1	1.2kΩ			250mW, ±5%		3.2 x 1.6 (1206)	
95	R452	1	10mΩ	PMR18EZPFU10L0	Rohm	Metal Film, 1W, ±1%		3.2 x 1.6 (1206)	
96	R501	1	10kΩ			1W, ±5%		6.3 x 3.2 (2412)	
97	R502, R503	2	10kΩ			1W, ±5%		6.3 x 3.2 (2412)	NOT MOUNT
98	C1, C6	2	220nF	LE224-M	Okaya	Film, 275V, ±10%			
99	C2, C3	2	100pF	DE2B3SA101KA3BT02F	Murata	Ceramic, 250V, ±10%			
100	C4, C5, C7, C8	4	2.2nF	DE2E3SA222MN3AT02F	Murata	Ceramic, 250V, ±20%			
101	C9	1	2.2μF	890324026034CS	WURTH	Film, 275V, ±10%			
102	C11, C59, C153, C203, C252, C254, C411, C412, C413, C452, C453	11	1μF			Ceramic, 25V, ±20%		1.0 x 0.5 (0402)	
103	C51, C52, C53	3	1010μF	EKHE421VSN102MA45Z	CHEMI-CON	Aluminum, 420V, ±20%			
104	C54	1	220pF	DE2B3SA221KA3BT02F	Murata	Ceramic, 250V, ±10%			
105	C55, C56	2	2.2nF			Ceramic, 50V, ±10%		1.0 x 0.5 (0402)	
106	C57, C70	2	6.8nF			Ceramic, 50V, ±10%		1.0 x 0.5 (0402)	
107	C58, C256	2	3.3nF			Ceramic, 50V, ±10%		1.0 x 0.5 (0402)	
108	C60	1	22μF			Ceramic, 25V, ±20%		3.2 x 1.6 (1206)	
109	C61, C63, C253, C302, C305, C309, C310, C351, C509	8	100nF			Ceramic, 25V, ±10%		1.0 x 0.5 (0402)	
110	C62, C509	2	100nF			Ceramic, 25V, ±10%		1.0 x 0.5 (0402)	NOT MOUNT
111	C64, C66	2	150pF			Ceramic, 50V, ±5%		1.0 x 0.5 (0402)	
112	C65, C67, C255, C303, C306, C410	6	1nF			Ceramic, 50V, ±10%		1.0 x 0.5 (0402)	
113	C68	1	120nF			Ceramic, 25V, ±10%		1.6 x 0.8 (0603)	

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114	C69, C404	2	1.5 $\mu$ F			Ceramic, 35V, $\pm$ 10%		2.0 x 1.25 (0805)	
115	C151, C152, C201, C202	4	10 $\mu$ F			Ceramic, 25V, $\pm$ 10%		3.2 x 1.6 (1206)	
116	C258	1	10 $\mu$ F			Ceramic, 25V, $\pm$ 10%		3.2 x 1.6 (1206)	NOT MOUNT
117	C154, C204,	2	330nF			Ceramic, 250V, $\pm$ 10%		4.5 x 3.2 (1812)	
118	C155, C205	2	330nF			Ceramic, 250V, $\pm$ 10%		4.5 x 3.2 (1812)	NOT MOUNT
119	C251	1	2.2 $\mu$ F			Ceramic, 25V, $\pm$ 10%		2.0 x 1.25 (0805)	
120	C257	1	330pF			Ceramic, 50V, $\pm$ 5%		1.0 x 0.5 (0402)	
121	C301	1	47nF			Ceramic, 630V, $\pm$ 10%		3.2 x 1.6 (1206)	
122	C304	1	47nF			Ceramic, 50V, $\pm$ 10%		1.0 x 0.5 (0402)	
123	C307	1	470nF			Ceramic, 50V, $\pm$ 20%		1.0 x 0.5 (0402)	
124	C308	1	10nF			Ceramic, 50V, $\pm$ 10%		1.0 x 0.5 (0402)	NOT MOUNT
125	C401	1	6.8 $\mu$ F	EKXJ451ELL6R8 MJ16S	CHEMI-CON	Aluminum, 450V, $\pm$ 20%			
126	C402, C403	2	22nF			Ceramic, 630V, $\pm$ 10%		3.2 x 1.6 (1206)	
127	C405, C406	2	150pF			Ceramic, 50V, $\pm$ 5%		1.0 x 0.5 (0402)	NOT MOUNT
128	C407	1	470pF			Ceramic, 50V, $\pm$ 5%		1.0 x 0.5 (0402)	
129	C408	1	330 $\mu$ F	EMLA350ARA331 MJA0G	CHEMI-CON	Aluminum, 35V, $\pm$ 20%			
130	C409	1	2.2nF			Ceramic, 50V, $\pm$ 10%		1.0 x 0.5 (0402)	NOT MOUNT
131	C414	1	470pF	DE2B3SA471KA3 BT02F	Murata	Ceramic, 250V, $\pm$ 10%			
132	C451	1	1200 $\mu$ F	EKZN250ELL122 MJ25S	CHEMI-CON	Aluminum, 25V, $\pm$ 20%			
133	C501, C502, C503	3	330 $\mu$ F	EKZN630ELL331 MJ25S	CHEMI-CON	Aluminum, 63V, $\pm$ 20%			
134	C504, C507, C508, C510, C511	5	33nF			Ceramic, 100V, $\pm$ 5%		2.0 x 1.25 (0805)	
135	C505, C506	2	1 $\mu$ F			Ceramic, 100V, $\pm$ 10%		2.0 x 1.25 (0805)	
136	L1, L2	2	8.1mH	LDFW021252YB UV0E	CHEMI-CON	Choke Coils, 21A			
137	L51, L52	2	100 $\mu$ H	TAM-30A131	TAMURA	Choke Coils, 30A			
138	L101	1	13 $\mu$ H	08C25178	CPE	Choke Coils			
139	L151, L201	2	9.5 $\mu$ H	TAM-CTW32A6R5	TAMURA	Choke Coils, 32A			
140	T101	1		PE-63587	PULSE	Transformer			
141	T151, T201	2		TAM-PQ40-16-3	TAMURA	Transformer			
142	T401	1		TAM-PQ20-36-5	TAMURA	Transformer			

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143	F1	1		0326030.MXP	Littelfuse	Ceramic Fuse, 30A			
144	F401	1		80812000440	Littelfuse	Fuse			
145	RV1	1	560VΩ	TND14V-561KB00AAA0	CHEMI-CON	Ceramic Varistor			
146	RY1	1		G2RL-1A-E2-CV-HA_DC12	OMRON	Relay			
147	CN1	1		B3P-VH	JST	Connector, 3 Position			
148	CN501	1		B4B-XH-A	JST	Connector, 4 Position			
149	CN502	1		B2B-XH-A(LF)(SN)	JST	Connector, 2 Position			
150	DP55	1		LC-22-S-WHITE	MAC8	Test Pin			
151	DP56, DP157, DP207, DP252, DP253, DP254, DP255, DP256, DP257, DP501, DP502, DP503	12		HK-2-S	MAC8	Test Pin			
152	DP258	1		LC-22-S-BLACK	MAC8	Test Pin			
153	TB1	1		OTB-780N-B-3P-M4	OSADA	Terminal			
154	TB501, TB502	2		7460305	WURTH	Terminal			
155	FH1, FH2	2		01220083Z	Littelfuse	Fuse Holder			

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### 第5条 準拠法

本規約の準拠法は日本法とします。

### 第6条 管轄裁判所

本リファレンスデザインに関する全ての紛争については、別段の定めがない限り東京地方裁判所を第一審の専属管轄裁判所とします。