

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
1	IC1	1		LT8316IFE#PBF	Analog Devices	DC-DC Controller			
2	IC3	1		LTC3803HS6-5#TRMPBF	Analog Devices	DC-DC Controller			
3	IC4	1		TCR3UF33A	TOSHIBA	Ultra Low Quiescent Current LDO, 3.3 V, 0.3 A	SMV		
4	IC5	1		TCR3UF18A	TOSHIBA	Ultra Low Quiescent Current LDO, 1.8 V, 0.3 A	SMV		
5	IC6, IC8	2		TC7MPB9307FT	TOSHIBA	8-Bit Dual-Supply Bus Switch	TSSOP20		
6	IC7	1		XC2C256-7VQG100C	Xilinx	CPLD			
7	IC9, IC19, IC20, IC21	4		OPA172IDCKT	TI	OpAmp			
8	IC10, IC11, IC12	3		TMCS1100A1QDRQ1	TI	Current Sensor			
9	IC13, IC15, IC18	3		TC75W57FK	TOSHIBA	Dual Comparator	US8		
10	IC14, IC16, IC17	3		TC7W08FK	TOSHIBA	Dual AND Gate	US8		
11	IC22	1		ASE-20.000MHZ-LC-T	Abracon	Crystal Oscillator, 20.0 MHz			
12	PC1, PC2, PC3, PC4, PC5, PC6, PC7, PC8, PC9, PC10, PC11, PC12, PC13, PC14, PC15, PC16, PC17, PC18, PC19, PC20, PC21, PC22, PC23, PC24	24		TLP152	TOSHIBA	Photocoupler, Gate Driver	5pin SO6		
13	Q1	1		TK17V65W	TOSHIBA	Nch MOSFET, 650 V, 17.3 A	DFN8x8		
14	Q2	1		TPN7R006PL	TOSHIBA	Nch MOSFET, 60 V, 54 A	TSON Advance		
15	Q3, Q5, Q7, Q9, Q11, Q13, Q15, Q17, Q19, Q21, Q23, Q25, Q27, Q29, Q31, Q33, Q35, Q37, Q39, Q41, Q43, Q45, Q47, Q49	24		TPH9R00CQ5	TOSHIBA	Nch MOSFET, 150 V (HSD), 64 A	SOP Advance		
16	Q4, Q6, Q8, Q10, Q12, Q14, Q16, Q18, Q20, Q22, Q24, Q26, Q28, Q30, Q32, Q34, Q36, Q38, Q40, Q42, Q44, Q46, Q48, Q50	24		SSM3K15AFS	TOSHIBA	Nch MOSFET, 30 V, 0.1 A	SSM		
17	D1	1		CRH01	TOSHIBA	Rectifier Diode, 200 V, 1 A	S-FLAT		

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
18	D2	1		FSV20100V	ON Semiconductor	Schottky Barrier Diode, 100 V, 20 A			
19	D3	1		CRZ18	TOSHIBA	Zener Diode, 18 V	S-FLAT		
20	D4	1		SMBJ188A-E3/52	Vishay	TVS Diode, 188 V Stand-off			
21	D6	1		US1MDFQ-13	Diodes	Diode, 1000 V, 1 A			
22	D7, D8, D9, D10, D11	5		CMS10	TOSHIBA	Schottky Barrier Diode, 40 V, 1 A			
23	D13	1		CRS30I30A	TOSHIBA	Schottky Barrier Diode, 30 V, 3 A	S-FLAT		
24	D14, D16, D18, D20, D22, D24, D26, D28, D30, D32, D34, D36, D38, D40, D42, D44, D46, D48	18		CMF01A	TOSHIBA	Fast-Recovery Diode, 600 V, 2 A	M-FLAT		
25	D15, D17, D19, D21, D23, D25, D27, D29, D31, D33, D35, D37, D39, D41, D43, D45, D47, D49	18		FFSM2065B	ON Semiconductor	Schottky Barrier Diode, 650 V, 20 A			
26	DS1, DS2, DS3, DS4	4		SMLD12EN1WT86	ROHM	LED, Green			
27	R1, R3, R5, R7, R9, R10, R193, R194, R195, R196, R199, R200, R201, R202, R203, R204, R205, R206	18	470 k Ω			$\pm 0.5\%$, 333 mW		3.2 x 1.6 (1206)	
28	R2, R80, R82, R84, R88, R90, R92, R96, R98, R101, R104, R106, R108, R112, R114, R116, R120, R122, R124	19	10 Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
29	R4, R14, R34, R36, R39, R207, R208, R301, R303, R305, R307	11	10 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
30	R6	1	60.4 k Ω			$\pm 0.1\%$, 100 mW		1.6 x 0.8 (0603)	
31	R11, R15	2	15 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
32	R12	1	120 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
33	R13	1	4.99 k Ω			$\pm 0.1\%$, 100 mW		1.6 x 0.8 (0603)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
34	R16	1	56.2 k Ω			$\pm 0.1\%$, 100 mW		1.6 x 0.8 (0603)	
35	R17, R86, R94, R103, R110, R118, R126, R154, R298, R299	10	0 Ω			1 A		1.6 x 0.8 (0603)	
36	R18	1	100 Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
37	R19	1	0.15 Ω			$\pm 1\%$, 750 mW		3.2 x 1.6 (1206)	
38	R20, R23	2	0 Ω			2 A		2.0 x 1.2 (0805)	
39	R28	1	33 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
40	R29	1	51 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
41	R30	1	4.7 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
42	R31	1	1 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
43	R32	1	22 k Ω			$\pm 1\%$, 100 mW		1.6 x 0.8 (0603)	
44	R33	1	0.047 Ω			$\pm 1\%$, 400 mW		1.6 x 0.8 (0603)	
45	R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R53, R54, R55, R58, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R136, R139, R142, R149, R150, R151, R152, R153, R214, R215, R216, R217, R218, R219, R220, R221, R222, R223, R224, R225, R226, R227, R228, R229, R230, R231, R232, R233, R234, R235, R236, R237, R313, R314, R315, R316, R317, R318, R319, R320, R321, R322, R323, R324, R325, R326, R327, R328, R329, R330, R331, R332, R333, R334, R335, R336	88	10 k Ω			$\pm 1\%$, 100 mW		1.0 x 0.5 (0402)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
46	R74, R137, R140, R143, R156, R157, R158, R159, R160, R161, R162, R163, R164, R165, R166, R167, R192, R242, R244, R309, R310, R311	22	0 Ω			1 A		1.0 x 0.5 (0402)	
47	R75, R76, R77, R78, R79	5	22 Ω			±1 %, 100 mW		1.0 x 0.5 (0402)	
48	R81, R83, R85, R87, R89, R91, R93, R95, R97, R99, R100, R102, R105, R107, R109, R111, R113, R115, R117, R119, R121, R123, R125, R127	24	270 Ω			±1 %, 100 mW		1.0 x 0.5 (0402)	
49	R128, R129, R134, R135	4	20 kΩ			±0.5 %, 100 mW		1.6 x 0.8 (0603)	
50	R130, R131, R132, R133	4	30 kΩ			±0.5 %, 100 mW		1.6 x 0.8 (0603)	
51	R138, R141, R144	3	20 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	
52	R145, R146, R147, R148	4	1 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	
53	R155	1	470 Ω			±5 %, 500 mW		2.0 x 1.2 (0805)	
54	R168, R169, R170, R171, R172, R173, R174, R175, R176, R177, R178, R179, R180, R181, R182, R183, R184, R185, R186, R187, R188, R189, R190, R191	24	22 Ω			±1 %, 100 mW		1.6 x 0.8 (0603)	
55	R197	1	220 Ω			±1 %, 100 mW		1.6 x 0.8 (0603)	
56	R209, R210, R211, R212, R213	5	100 Ω			±1 %, 100 mW		1.0 x 0.5 (0402)	
57	R289, R290, R291, R292, R293, R294	6	10 kΩ			±0.5 %, 100 mW		1.0 x 0.5 (0402)	
58	C1	1	1 μF	ECWFG2J105P1	PANASONIC	Film, 630 V, ±5 %		Through Hole	
59	C2, C3	2	0.1 μF	2220CC104KAT1 A	AVX	Ceramic, 630 V, ±10 %		5.7 x 5.0 (2220)	
60	C4, C14, C137, C138	4	4.7 μF			Ceramic, 50 V, ±10 %		2.0 x 1.2 (0805)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
61	C5, C10	2	47 pF			Ceramic, 100 V, ± 5 %		1.6 x 0.8 (0603)	
62	C6, C9, C131, C132	4	22 μ F			Ceramic, 25 V, ± 10 %		3.2 x 1.6 (1206)	
63	C7	1	470 μ F	EKY-500ELL471ML15S	Nippon Chemi-Con	Aluminum, 50V, ± 20 %		Through Hole	
64	C11, C13	2	1000 pF			Ceramic, 50 V, ± 5 %		1.6 x 0.8 (0603)	
65	C12, C24, C27, C32, C33, C34, C35, C36, C37, C38, C39, C41, C42, C43, C44, C45, C46, C61, C75, C89, C90, C91, C92, C93, C94, C95, C97, C99, C101	29	0.1 μ F			Ceramic, 25 V, ± 10 %		1.0 x 0.5 (0402)	
66	C17, C18, C19, C20, C21, C129	6	10 μ F			Ceramic, 25 V, ± 20 %		3.2 x 1.6 (1206)	
67	C22, C103	2	0.01 μ F			Ceramic, 50 V, ± 5 %		1.6 x 0.8 (0603)	
68	C23, C25, C28, C29, C30, C31, C40, C102	8	10 μ F			Ceramic, 10 V, ± 20 %		1.6 x 0.8 (0603)	
69	C47, C50, C53, C55, C57, C58, C59, C60, C62, C64, C68, C70, C72, C73, C74, C76, C77, C79, C81, C83, C85, C86, C87, C88	24	2.2 μ F			Ceramic, 25 V, ± 10 %		2.0 x 1.2 (0805)	
70	C48, C49, C54, C56, C63, C65, C69, C71, C78, C80, C82, C84	12	100 μ F	EKM251ELL101 ML25S	Nippon Chemi-Con	Aluminum, 250V, ± 20 %		Through Hole	
71	C66, C67	2	47 μ F	EKXF451ELL470M M25S	Nippon Chemi-Con	Aluminum, 450V, ± 20 %		Through Hole	
72	C96, C98, C100	3	10 pF			Ceramic, 50 V, ± 2.5 %		1.0 x 0.5 (0402)	
73	C104, C105, C106, C107, C108, C109, C110, C111, C112, C113, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127	24	0.1 μ F			Ceramic, 50 V, ± 10 %		1.6 x 0.8 (0603)	
74	C128	1	150 pF			Ceramic, 100 V, ± 1 %		1.6 x 0.8 (0603)	
75	FL1	1		ACM4520-421-2P-T000	TDK	Common Mode Filters, 2 channel			
76	RV1	1		NV73A2ATTE8.2	KOA	Varistor, 8.2 V			
77	T2	1		750342424	WURTH	Transformer, Np : Ns1 : Ns2 : Ns3 : Ns4 : Naux			

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
						= 2.2 : 2 : 2 : 2 : 2 : 1			
78	T3	1		11328-T074	SUMIDA	Transformer, Np : Ns : Naux = 8 : 1 : 1			
79	CN1	1		OTB-640NS-B- 2P-C	OSADA	Terminal Block, 2P			
80	CN2	1		MCV1,5/2-G-3.5 (1843606)	PHOENIX CONTACT	PCB Header, 2P			
81	CN3	1		FTSH-120-04-F- DH-A	Samtec	Header Strips, 20 x 2 P			
82	CN4	1		878311420	Molex	Vertical Shrouded Header, 7 x 2 P			
83	CN5	1		OTB-640NS-B- 3P-C	OSADA	Terminal Block, 3P			
84	S1	1		CHS-04TB	COPAL	Slide Switches, 4-Bit			
85	S2	1		SKHMQKE010	ALPS	Tactile Switch			
86	IC2	1		LT3086IFE#PBF	Analog Devices	Adjustable LDO, 400 mV to 32 V, 2.1 A			Not Mount
87	D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D70, D71, D72, D73	24		BAS516	TOSHIBA	Diode, 100 V, 1 A	ESC		Not Mount
88	R8	1						2.0 x 1.2 (0805)	Not Mount
89	R21, R25	2	0 Ω			2 A		2.0 x 1.2 (0805)	Not Mount
90	R22, R295	2	100 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	Not Mount
91	R24, R297	2	270 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	Not Mount
92	R26	1	330 Ω			±1 %, 100 mW		1.0 x 0.5 (0402)	Not Mount
93	R27	1	22 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	Not Mount
94	R56, R57, R198, R238, R239, R240, R312	7	0 Ω			1 A		1.0 x 0.5 (0402)	Not Mount
95	R241, R243	2	10 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	Not Mount
96	R245, R246, R247, R249, R251, R253, R255, R257, R258, R260, R262, R264, R266, R268, R270, R272, R274, R276, R278, R280, R282, R284, R286, R288	24	0 Ω			1 A		1.6 x 0.8 (0603)	Not Mount

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package name	Standard dimensions mm (inch)	Not Mounted
97	R296	1	160 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	Not Mount
98	R300	1	1 kΩ			±1 %, 100 mW		1.6 x 0.8 (0603)	Not Mount
99	R302, R304, R306, R308	4	10 kΩ			±1 %, 100 mW		1.6 x 0.8 (0603)	Not Mount
100	R337, R338, R339, R340, R341, R342, R343, R344, R345, R346, R347, R348, R349, R350, R351, R352, R353, R354, R355, R356, R357, R358, R359, R360	24	1 kΩ			±1 %, 100 mW		1.0 x 0.5 (0402)	Not Mount
101	C8, C130	2	1000 pF			Ceramic, 50 V, ±5 %		1.6 x 0.8 (0603)	Not Mount
102	C15, C16	2	10 μF			Ceramic, 25 V, ±20 %		3.2 x 1.6 (1206)	Not Mount
103	C133, C134, C135, C136, C139, C140, C141	7	0.1 μF			Ceramic, 25 V, ±10 %		1.0 x 0.5 (0402)	Not Mount
104	C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165	24	470 pF			Ceramic, 50 V, ±5 %		1.0 x 0.5 (0402)	Not Mount
101	C8, C130	2	1000 pF			Ceramic, 50 V, ±5 %		1.6 x 0.8 (0603)	Not Mount
102	C15, C16	2	10 μF			Ceramic, 25 V, ±20 %		3.2 x 1.6 (1206)	Not Mount
103	C133, C134, C135, C136, C139, C140, C141	7	0.1 μF			Ceramic, 25 V, ±10 %		1.0 x 0.5 (0402)	Not Mount
104	C142, C143, C144, C145, C146, C147, C148, C149, C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165	24	470 pF			Ceramic, 50 V, ±5 %		1.0 x 0.5 (0402)	Not Mount

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第4条 準拠法

本規約の準拠法は日本法とします。