

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
1	IC106, IC807, IC808, IC809	4		TC7SET17FU	TOSHIBA	Schmitt Buffer	SOT-353	2.0 x 1.25	
2	IC600	1		TMS320F28377S PTP	TI	CPU 32bit			
3	IC601	1		LMV844QMA	TI	OP Amp			
4	IC602	1		LM4040QCEM3-3.0	TI	Shunt Regulator			
5	IC620	1		TPS3702CX33Q DDCRQ1	TI	Undervoltage Monitor			
6	IC621	1		TPS3702CX12Q DDCRQ1	TI	Undervoltage Monitor			
7	IC650	1		TPS629210QDR LRQ1	TI	Low-Voltage Converter			
8	IC651	1		TPS62420QDRC RQ1	TI	Step-Down Converter			
9	IC710, IC711, IC712, IC719, IC720, IC721, IC722, IC729, IC730, IC731, IC732, IC739, IC740, IC741, IC742, IC749, IC811, IC812, IC817, IC818, IC823, IC824, IC829, IC830	24		TLVH431AQDBV RQ1	TI	Shunt Regulator, 18V			
10	IC713, IC714, IC716, IC717, IC723, IC724, IC726, IC727, IC733, IC734, IC736, IC737, IC743, IC744, IC746, IC747, IC813, IC814, IC819, IC820, IC825, IC826, IC831, IC832	24		INA290A2QDCK RQ1	TI	Current Sense Amp			
11	IC715, IC718, IC725, IC728, IC735, IC738, IC745, IC748, IC815, IC816, IC821, IC822, IC827, IC828, IC833, IC834	16		TSSA3159QDBV RQ1	TI	Analog Switch			
12	IC800	1		LM5001IDQ1	TI	Regulator			
13	IC801	1		LM5010AQ1MH	TI	Switching Regulator			
14	IC802	1		MAX6765TTLD2	MAXIM	Linear Regulators			
15	IC803, IC804, IC805, IC806	4		BD750L2FP3	ROHM	3 Terminal Regulator			

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
16	Q500, Q512, Q522, Q532, Q542, Q711, Q713, Q716, Q718, Q721, Q723, Q726, Q728, Q731, Q733, Q736, Q738, Q741, Q743, Q746, Q748, Q801, Q802, Q815, Q817, Q819, Q821, Q823, Q825, Q827, Q829	31		2SC4117-GR	TOSHIBA	NPN Transistor, 120V, 0.1A	SOT-323	2.0 x 1.25	
17	Q510, Q511, Q520, Q521, Q530, Q531, Q540, Q541	8		RN1907	TOSHIBA	NPN Transistor x2, 50V, 0.1A	SOT-363	2.0 x 1.25	
18	Q712, Q714, Q717, Q719, Q722, Q724, Q727, Q729, Q732, Q734, Q737, Q739, Q742, Q744, Q747, Q749, Q816, Q818, Q820, Q822, Q824, Q826, Q828, Q830	24		RN4907	TOSHIBA	PNP Transistor x1, NPN Transistor x1, 50V, 0.1A	SOT-363	2.0 x 1.25	
19	D620	1		1SS405	TOSHIBA	Switching Diode, 20V, 50mA	SOD-523	1.2 x 0.8	
20	D711, D712, D713, D721, D722, D731, D732, D741, D742, D812, D813, D912	12		1SS362FV	TOSHIBA	Switching Diode, 80V, 100mA	SOT-723	1.2 x 0.8	
21	D800, D801, D802, D803, D804, D805, D806, D807, D811	9		CMH01	TOSHIBA	Switching Diode, 200V, 3A	M-FLAT	3.8 x 2.4	
22	D808	1		CRY82	TOSHIBA	Zenar Diode, Vz=8.2V	S-FLAT	2.6 x 1.6	
23	D809, D810	2		1SS307E	TOSHIBA	Switching Diode, 80V, 100mA	SOD-523	1.2 x 0.8	
24	DS510, DS520, DS530, DS540	4		KB	OSRAM	Blue LED, DELPS2.12			
25	DS511, DS512, DS521, DS522, DS531, DS532, DS541, DS542	8		KT	OSRAM	Green LED, DELQS1.12			
26	DS513, DS523, DS533, DS543	4		KS	OSRAM	Red LED, DELPS1.22			
27	D650	1		RB168VYM-30FH	ROHM	Schottky Barrier Diode, 30V, 1A			

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
28	R701, R702, R703, R704, R711, R712, R713, R714, R716, R717, R718, R719, R901, R902, R903, R904, R911, R912, R913, R914, R916, R917, R918, R919	24	0Ω			±1%, 200mW		1.6 x 0.8 (0603)	
29	R500, R562, R569, R572, R579, R582, R592, R599, R804	9	10kΩ			±5%, 250mW		1.6 x 0.8 (0603)	
30	R501, R564, R574, R584, R594, R816	6	100Ω			±1%, 333mW		2.0 x 1.25 (0805)	
31	R502, R565, R575, R585, R595, R817	6	1.8kΩ			±1%, 333mW		1.6 x 0.8 (0603)	
32	R503, R566, R576, R586, R596, R818	6	8.2kΩ			±1%, 333mW		1.6 x 0.8 (0603)	
33	R504, R505, R567, R568, R577, R578, R587, R588, R597, R598, R802, R803, R810, R811	14	22kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
34	R506, R507, R508, R514, R515, R524, R525, R534, R535, R544, R545, R551, R552, R553, R554, R556, R557, R558, R559, R589, R600, R601, R602, R603, R604, R605, R606, R607, R608, R609, R613, R614, R618, R620, R623, R624, R634, R638, R639, R640, R641, R642, R643, R644, R645, R646, R647, R674	48	10kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
35	R510, R511, R520, R521, R530, R531, R540, R541	8	47Ω			±1%, 200mW		1.6 x 0.8 (0603)	
36	R512, R513, R516, R522, R523, R526, R532, R533, R536, R542, R543, R546, R563, R573, R583, R593	16	100Ω			±1%, 200mW		1.6 x 0.8 (0603)	
37	R517, R518, R527, R528, R537, R538, R547, R548	8	560Ω			±1%, 200mW		1.6 x 0.8 (0603)	
38	R519, R529, R539, R549	4	2.7kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
39	R631, R655	2	56kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
40	R632, R633, R669	3	2.2kΩ			±1%, 100mW		1.6 x 0.8 (0603)	
41	R635, R636, R637, R648	4	47kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
42	R656, R657, R658	3	4.7kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
43	R659	1	39Ω			±1%, 200mW		1.6 x 0.8 (0603)	
44	R660	1	300Ω			±1%, 200mW		1.6 x 0.8 (0603)	
45	R661, R672	2	1kΩ			±5%, 125mW		1.6 x 0.8 (0603)	
46	R662, R663, R664, R665	4	1Ω			±1%, 200mW		1.6 x 0.8 (0603)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
47	R670	1	240k Ω			$\pm 0.5\%$, 200mW		1.6 x 0.8 (0603)	
48	R671	1	240k Ω			$\pm 0.5\%$, 200mW		1.6 x 0.8 (0603)	
49	R673	1	36k Ω			$\pm 0.5\%$, 200mW		1.6 x 0.8 (0603)	
50	R675	1	7.5k Ω			$\pm 0.5\%$, 200mW		1.6 x 0.8 (0603)	
51	R676	1	330k Ω			$\pm 0.5\%$, 200mW		1.6 x 0.8 (0603)	
52	R677	1	75k Ω			$\pm 0.5\%$, 200mW		1.6 x 0.8 (0603)	
53	R678, R679	2	200k Ω			$\pm 0.5\%$, 200mW		1.6 x 0.8 (0603)	
54	R706, R707, R708, R709, R736, R737, R738, R756, R757, R758, R776, R777, R778, R796, R797, R798, R836, R837, R838, R856, R857, R858, R876, R877, R878, R896, R897, R898, R906, R907, R908, R909, R936, R937, R956, R957, R976, R977, R996, R997	40	47 Ω			$\pm 1\%$, 125mW		1.6 x 0.8 (0603)	
55	R722, R723, R742, R743, R762, R763, R782, R783, R822, R823, R842, R843, R862, R863, R882, R883, R922, R923, R942, R943, R962, R963, R982, R983	24	22k Ω			$\pm 1\%$, 100mW		1.6 x 0.8 (0603)	
56	R724, R725, R726, R727, R744, R745, R746, R747, R764, R765, R766, R767, R784, R785, R786, R787, R824, R825, R826, R827, R844, R845, R846, R847, R864, R865, R866, R867, R884, R885, R886, R887, R924, R925, R926, R927, R944, R945, R946, R947, R964, R965, R966, R967, R984, R985, R986, R987	48	1k Ω			$\pm 1\%$, 125mW		1.6 x 0.8 (0603)	
57	R728, R729, R748, R749, R768, R769, R788, R789, R828, R829, R848, R849, R868, R869, R888, R889, R928, R929, R948, R949, R968, R969, R988, R989	24	2.7k Ω			$\pm 1\%$, 100mW		1.6 x 0.8 (0603)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
58	R730, R731, R732, R733, R750, R751, R752, R753, R770, R771, R772, R773, R790, R791, R792, R793, R830, R831, R832, R833, R850, R851, R852, R853, R870, R871, R872, R873, R890, R891, R892, R893, R930, R931, R932, R933, R950, R951, R952, R953, R970, R971, R972, R973, R990, R991, R992, R993	48	10Ω			±5%, 250mW		3.2 x 1.6 (1206)	
59	R734, R735, R754, R755, R774, R775, R794, R795, R834, R835, R854, R855, R874, R875, R894, R895, R934, R935, R954, R955, R974, R975, R994, R995	24	10kΩ			±5%, 100mW		1.6 x 0.8 (0603)	
60	R800	1	27kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
61	R801	1	100kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
62	R805, R806	2	18kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
63	R807	1	10Ω			±5%, 500mW		2.0 x 1.25 (0805)	
64	R808	1	12kΩ			±0.5%, 200mW		1.6 x 0.8 (0603)	
65	R809	1	1kΩ			±0.5%, 200mW		1.6 x 0.8 (0603)	
66	R812	1	430kΩ			±1%, 200mW		1.6 x 0.8 (0603)	
67	R813	1	1.6Ω			±1%, 333mW		1.6 x 0.8 (0603)	
68	R814	1	6.8kΩ			±0.5%, 200mW		1.6 x 0.8 (0603)	
69	R815	1	1.8kΩ			±0.5%, 200mW		1.6 x 0.8 (0603)	
70	R819, R900	2	10Ω			±0.5%, 100mW		1.6 x 0.8 (0603)	
71	R720, R721, R740, R741, R760, R761, R780, R781, R820, R821, R840, R841, R860, R861, R880, R881, R920, R921, R940, R941, R960, R961, R980, R981	24	1kΩ			±1%, 100mW		1.6 x 0.8 (0603)	Not Mounted
72	R739, R759, R779, R799, R839, R859, R879, R899, R939, R959, R979, R999	12	10Ω			±1%, 100mW		1.6 x 0.8 (0603)	Not Mounted

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
73	L650	1	3.3μH	XGL3520-332MEC	COIL CRAFT	±20%, 2.8A		3.2 x 3.5	
74	L651, L656	2	3.3μH	VLS3015CX-3R3M-H	TDK	±20%, 1.79A		3.0 x 3.0	
75	L652	1	220H	BLM21PG221SN1D	MURATA	Ferrite Beads, ±20%, 2A		2.0 x 1.25	
76	L653, L654	2	60H	BLM21PG600BH1	MURATA	Ferrite Beads, ±20% 1.9A		2.0 x 1.25	
77	L800	1	33μH	LAYPH06045DL330M GA	TAIYO YUDEN	Chip Coil, ±20%, 1.1A		6.3 x 6.0	
78	L801	1	560μH	MSS1278H-564K_D	COIL CRAFT	±10%, 1.0A		2.0 x 12.0	
79	L802, L803, L804, L805, L806, L807, L808, L809, L810, L811, L812, L813, L814, L815, L816, L817, L818, L819, L820, L821	20	100μH	CLF12555T-101M-D	TDK	±20%		12.5 x 12.1	
80	C500, C501, C516, C517, C526, C527, C536, C537, C546, C547, C800, C801	12	1000pF			Ceramic, 100V, ±10%		1.6 x 0.8 (0603)	
81	C502, C518, C528, C538, C548, C819, C820	7	470pF			Ceramic, 50V, ±5%		1.6 x 0.8 (0603)	
82	C510, C511, C514, C520, C521, C524, C530, C531, C534, C540, C541, C544	12	1000pF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	
83	C512, C513, C515, C522, C523, C525, C532, C533, C535, C542, C543, C545	12	2200pF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	
84	C600, C601, C602	3	1μF			Ceramic, 16V, ±10%		1.6 x 0.8 (0603)	
85	C603, C620, C621, C665, C666, C667, C668, C669, C670, C671, C672, C673, C674, C675, C676, C677, C678, C679, C680, C681, C682, C683, C684, C685, C686, C687, C688, C689, C690, C691, C692, C693, C694, C695, C696, C697, C698, C699, C700	39	0.1μF			Ceramic, 25V, ±10%		1.6 x 0.8 (0603)	
86	C604, C605, C606, C607	4	2.2μF			Ceramic, 16V, ±20%		2.0 x 1.25 (0805)	
87	C622, C805	2	0.01μF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
88	C635, C636, C637, C648, C651, C702, C716, C717, C718, C726, C727, C728, C736, C737, C738, C746, C747, C748, C756, C757, C758, C766, C767, C768, C776, C777, C778, C786, C787, C788, C804, C825, C826, C827, C828, C916, C917, C918, C919, C926, C927, C928, C929, C936, C937, C938, C939, C946, C947, C948, C949	51	0.1μF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	
89	C652, C703, C705	3	22μF			Ceramic, 6.3V, ±20%		3.2 x 1.6 (1206)	
90	C654, C658, C661	3	10μF			Ceramic, 10V, ±10%		2.0 x 1.25 (0805)	
91	C655, C656, C659, C660	4	2.2μF			Ceramic, 10V, ±20%		1.6 x 0.8 (0603)	
92	C701, C808, C816, C818	4	10μF			Ceramic, 50V, ±10%		3.2 x 1.6 (1206)	
93	C704	1	33pF			Ceramic, 50V, ±5%		1.6 x 0.8 (0603)	
94	C712, C722, C732, C742, C752, C762, C772, C782	8	0.047μF			Ceramic, 50V, ±5%		3.2 x 1.6 (1206)	
95	C713, C714, C715, C723, C724, C725, C733, C734, C735, C743, C744, C745, C753, C754, C763, C764, C765, C773, C775, C783, C784, C785, C843, C869, C913, C914, C915, C923, C924, C925, C933, C934, C935, C943, C944, C945	36	4700pF			Ceramic, 50V, ±5%		1.6 x 0.8 (0603)	
96	C802, C803, C809	3	1μF			Ceramic, 50V, ±10%		2.0 x 1.25 (0805)	
97	C806	1	22pF			Ceramic, 50V, ±5%		1.6 x 0.8 (0603)	
98	C807	1	0.015μF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	
99	C810, C811, C836, C837	4	22μF			Ceramic, 100V, ±20%		6.0 x 5.0	
100	C812, C814	2	0.1μF			Ceramic, 100V, ±10%		3.2 x 1.6 (1206)	
101	C813	1	4700pF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	
102	C815	1	0.022μF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	
103	C817	1	1μF			Ceramic, 25V, ±10%		1.6 x 0.8 (0603)	
104	C829, C830, C831, C832	4	4700pF			Ceramic, 16V, ±10%		2.0 x 1.25 (0805)	
105	C650, C662, C663, C664, C821, C822, C823, C824	8	47μF	UCZ1C470 MCL1GS	nichicon	Electrolytic, 16V, ±20%		6.6 x 6.6	
106	C662, C663, C664	3	100μF	UCZ1C101 MCS1GS	nichicon	Electrolytic, 16V, ±20%		8.3 x 8.3	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
107	C710, C711, C720, C721, C730, C731, C740, C741, C750, C751, C760, C761, C770, C771, C780, C781, C910, C911, C920, C921, C930, C931, C940, C941	24	0.1μF			Ceramic, 50V, ±10%		1.6 x 0.8 (0603)	Not Mounted
108	C719, C729, C886, C887, C888, C889, C890, C891	8	4700pF			Ceramic, 50V, ±5%		1.6 x 0.8 (0603)	Not Mounted
109	CN1, CN101, CN201, CN301	4		B6B-PH-K-S	JST	Connector, Through Hole, 6 Positions		13.9 x 4.5	
110	CN2, CN102, CN202, CN302	4		B9B-PH-K-S	JST	Connector, Through Hole, 9 Positions		19.9 x 4.5	
111	CN3, CN103, CN203, CN303	4		B8B-XH-A	JST	Connector, Through Hole, 8 Positions		22.4 x 5.75	
112	CN4, CN104, CN204, CN304	4		B5B-PH-K-S	JST	Connector, Through Hole, 5 Positions		11.9 x 4.5	
113	CN5, CN105, CN205, CN305	4		B2B-PH-K-S	JST	Connector, Through Hole, 2 Positions		5.9 x 4.5	
114	CN6	1		B2B-XH-A	JST	Connector, Through Hole, 2 Positions		7.4 x 5.75	
115	CN7	1		B3B-XH-A	JST	Connector, Through Hole, 3 Positions		9.9 x 5.75	
116	CN208, CN307, CN308, CN407, CN408, CN508, CN509, CN618, CN910, CN920, CN936, CN940	12		B2P-VH	JST	Connector, Through Hole, 2 Positions		7.86 x 8.5	
117	CN400, CN500, CN501, CN503, CN504, CN506, CN510, CN511, CN513, CN514, CN516, CN520, CN530, CN540, CN911, CN913, CN921, CN923, CN924, CN926, CN927, CN929, CN930, CN932, CN933, CN935, CN937, CN939, CN941, CN943, CN945, CN962	32		TSM-102-01-L-SV	Samtec	Connector, SMD, 2 Positions		5.08 x 2.54	
118	CN502, CN505, CN512, CN515, CN912, CN922, CN925, CN928, CN931, CN934, CN938, CN942, CN952, CN953, CN954, CN955, CN956, CN957, CN958, CN959, CN961, CN963, CN964	23		TSW-101-07-G-S	Samtec	Pin Header, Through Hole, 1 Position		2.54 x 2.54	
119	CN620	1		TSM-107-01-L-DV	Samtec	Pin Header, SMD, 14 Positions		17.78 x 5.08	
120	CN960	1		HW-1-S	MAC8	Pin Header, SMD, 1 Position		3.2 x 1.6	

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Packaging	Typical Dimension mm (inch)	Not Mounted
121	J801, J802, J803, J804, J805, J806, J807, J808, J809, J810, J811, J812, J813, J814, J817, J818, J820, J823, J826, J827, J828, J829	22		TLRZ1JTDD	KOA	Jumper, 0Ω		1.6 x 0.8 (0603)	
122	TP801, TP802, TP804, TP805, TP806	5		HW-1-S	MAC8	Test Pin, SMD, 1 Position		3.2 x 1.6	
123	TP803	1		TSW-101-07-G-S	Samtec	Test Pin, Through Hole, 1 Position		2.54 x 2.54	

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