

Item No.	Designator	Quantity	Value	Part Number	Manufacturer	Description	Package Name	Standard Dimensions mm (inch)	Not Mounted
1	U1, U3, U500, U600	4		<a href="#">TCR1HF50B</a>	<a href="#">TOSHIBA</a>	LDO	SOT-25 (SMV)		
2	U2	1		<a href="#">TC7W08FK</a>	<a href="#">TOSHIBA</a>	AND 2ch Logic	SOT-765 (US8)		
3	U300, U400	2		<a href="#">TLP5231</a>	<a href="#">TOSHIBA</a>	Gate Driver	SO16L		
4	U101, U201	2		LM317MKVURG3	Texas Instruments	LDO	TO-252-3		
5	U100, U200	2		LT8302IS8E#WTRPBF	Analog Devices	No-Opto Isolated Flyback Converter	8-SOIC		
6	U501, U601	2		<a href="#">TC75S57FU</a>	<a href="#">TOSHIBA</a>	Comparator	USV		
7	U502, U602	2		<a href="#">TC7W00FK</a>	<a href="#">TOSHIBA</a>	NAND 2ch Logic	SOT-765 (US8)		
8	U503, U603	2		<a href="#">TC7SZ04AFS</a>	<a href="#">TOSHIBA</a>	INV 1ch Logic	SOT-953 (fSV)		
9	Q1, Q4	2		<a href="#">SSM3K15AFS</a>	<a href="#">TOSHIBA</a>	Nch-MOSFET, 30V, 100mA	SSM		
10	Q2, Q3, Q500, Q600	4		<a href="#">2SC6026MFV</a>	<a href="#">TOSHIBA</a>	NPN Transistor, 50V, 150mA	SOT-723 (VESM)		
11	Q501, Q601	2		<a href="#">SSM3K318R</a>	<a href="#">TOSHIBA</a>	Nch-MOSFET, 60V, 2.5A	SOT-23F		
12	Q700, Q800	2		<a href="#">TPC8132</a>	<a href="#">TOSHIBA</a>	Pch-MOSFET, -40V, -7A	SOP-8		
13	Q701, Q702, Q801, Q802	4		<a href="#">SSM6K804R</a>	<a href="#">TOSHIBA</a>	Nch-MOSFET, 40V, 12A	TSPO6F		
14	D1	1		<a href="#">CRZ36</a>	<a href="#">TOSHIBA</a>	DIODE Zener, 36V, 9mA, 0.7W	S-FLAT		
15	D2, D3, D4, D5, D6, D7	6		<a href="#">CEZ6V8</a>	<a href="#">TOSHIBA</a>	DIODE Zener, 6.8V, 5mA, 150mW	ESC		
16	D102, D202	2		DFLS1100-7	Diodes	Schottky Barrier Diode, 100V, 1A	PowerDI123		
17	D104, D204	2		<a href="#">CEZ30V</a>	<a href="#">TOSHIBA</a>	DIODE Zener, 30V, 5mA, 150mW	ESC		
18	D106, D107, D206, D207	4		<a href="#">CRH01</a>	<a href="#">TOSHIBA</a>	Diode, 200V, 1A	S-FLAT		
19	D100, D200	2		<a href="#">CEZ24V</a>	<a href="#">TOSHIBA</a>	DIODE Zener, 24V, 5mA, 150mW	ESC		
20	D101, D201	2		<a href="#">CRS10I60E</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 60V, 1A	S-FLAT		
21	D103, D203	2		<a href="#">CMS03</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 30V, 3A	M-FLAT		
22	D105, D205	2		<a href="#">CEZ8V2</a>	<a href="#">TOSHIBA</a>	DIODE Zener, 8.2V, 5mA, 150mW	ESC		
23	D500, D600	2		<a href="#">CEZ5V6</a>	<a href="#">TOSHIBA</a>	DIODE Zener, 5.6V, 5mA, 150mW	ESC		
24	D501, D601	2		<a href="#">1SS413</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 20V, 50mA	SOD-923		
25	D703, D704, D705, D706, D803, D804, D805, D806	8		<a href="#">CRF03A</a>	<a href="#">TOSHIBA</a>	Diode first recovery, 600V, 0.7A	S-FLAT		

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26	D701, D801	2		<a href="#">CRZ10</a>	<a href="#">TOSHIBA</a>	DIODE Zener, 10V, 10mA, 0.7W	S-FLAT		Not Mounted
27	D702, D802	2		<a href="#">CUS05F30</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 30V, 500mA	USC		Not Mounted
28	D707, D708, D807, D808	4		<a href="#">CRS04B</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 40V, 1A	S-FLAT		Not Mounted
29	D700, D800	2		<a href="#">CBS10S30</a>	<a href="#">TOSHIBA</a>	Schottky Barrier Diode, 30V, 1A	CST2B		
30	R1, R15	2	270Ω			± 1%, 0.125W		1.6 x 0.8 (0603)	
31	R2, R4, R12, R13, R14, R16	6	4.7kΩ			± 1%, 0.1 W		1.6 x 0.8 (0603)	
32	R3, R11, R17, R22, R502, R504, R507, R602, R604, R607	10	10kΩ			± 1%, 0.1 W		1.6 x 0.8 (0603)	
33	R5, R18, R6, R7, R9, R10	6	1kΩ			± 1%, 0.125 W		1.6 x 0.8 (0603)	
34	R8, R19, R505, R605	4	47kΩ			± 1%, 0.1W		1.6 x 0.8 (0603)	
35	R700, R800	2	0Ω			0Ω, 1A		1.6 x 0.8 (0603)	
36	R20, R21, R702, R802	4	0Ω			0Ω, 1A		1.6 x 0.8 (0603)	Not Mounted
37	R107, R108, R207, R208	4	33Ω			± 1%, 0.125W		1.6 x 0.8 (0603)	
38	R701, R801, R713, R813	4	91Ω			± 1%, 0.125W		1.6 x 0.8 (0603)	
39	R109, R110, R111, R112, R209, R210, R211, R212	8	3kΩ			± 1%, 0.33W		1.6 x 0.8 (0603)	
40	R102, R202	2	39Ω			± 1%, 0.125W		1.6 x 0.8 (0603)	
41	R115, R215	2	240Ω			± 1%, 0.125W		1.6 x 0.8 (0603)	
42	R113, R213	2	560Ω			± 1%, 0.125W		1.6 x 0.8 (0603)	
43	R103, R203	2	390kΩ			± 1%, 0.1W		1.6 x 0.8 (0603)	
44	R100, R200	2	240kΩ			± 1%, 0.1W		1.6 x 0.8 (0603)	
45	R114, R214	2	3kΩ			± 1%, 0.1W		1.6 x 0.8 (0603)	
46	R104, R204	2	100kΩ			± 1%, 0.1W		1.6 x 0.8 (0603)	
47	R106, R206	2	10kΩ			± 1%, 0.1W		1.6 x 0.8 (0603)	

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48	R101, R201	2	22k $\Omega$			$\pm 1\%$ , 0.1W		1.6 x 0.8 (0603)	
49	R105, R205	2	16k $\Omega$			$\pm 1\%$ , 0.1W		1.6 x 0.8 (0603)	
50	R500, R501, R600, R601	4	5.1k $\Omega$			$\pm 1\%$ , 0.1W		1.6 x 0.8 (0603)	
51	R708, R808	2	6.2k $\Omega$			$\pm 1\%$ , 0.1W		1.6 x 0.8 (0603)	
52	R503, R603	2	470 $\Omega$			$\pm 1\%$ , 0.125W		1.6 x 0.8 (0603)	
53	R506, R606	2	10 $\Omega$			$\pm 1\%$ , 0.125W		1.6 x 0.8 (0603)	
54	R704, R705, R706, R707, R709, R710, R804, R805, R806, R807, R809, R810	12	10 $\Omega$	PRG3216P-10R0-D	SUSUMU	$\pm 0.5\%$ , 1W		3.2 x 1.6 (1206)	
55	R718, R719, R722, R723, R818, R819, R821, R822	8	10 $\Omega$	PRG3216P-10R0-D	SUSUMU	$\pm 0.5\%$ , 1W		3.2 x 1.6 (1206)	
56	R720, R721, R820, R823	4	10 $\Omega$	PRG3216P-10R0-D	SUSUMU	$\pm 0.5\%$ , 1W		3.2 x 1.6 (1206)	Not Mounted
57	R703, R803	2	1 $\Omega$			$\pm 1\%$ , 0.3W		1.6 x 0.8 (0603)	
58	C1, C111, C211, C300, C301, C302, C400, C401, C402	9	1 $\mu$ F			Ceramic, 50V, $\pm 10\%$ , X7R		1.6 x 0.8 (0603)	
59	C2, C3, C16, C17	4	0.47 $\mu$ F			Ceramic, 50V, $\pm 10\%$ , X7R		1.6 x 0.8 (0603)	
60	C4, C13	2	0.33 $\mu$ F			Ceramic, 16V, $\pm 10\%$ , X7R		1.6 x 0.8 (0603)	
61	C5, C9, C10, C11, C12, C14, C103, C203, C114, C214	10	470pF			Ceramic, 50V, $\pm 10\%$ , X7R		1.6 x 0.8 (0603)	
62	C6, C15, C504, C506, C508, C604, C606, C608, C18, C19	10	1000pF			Ceramic, 50V, $\pm 10\%$ , X7R		1.6 x 0.8 (0603)	
63	C7, C100, C200, C503, C505, C507, C603, C605, C607	9	1 $\mu$ F			Ceramic, 25V, $\pm 10\%$ , X7R		1.6 x 0.8 (0603)	

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64	C8	1	0.1 $\mu$ F			Ceramic, 50V, $\pm$ 10%, X7R		1.6 x 0.8 (0603)	
65	C703, C704, C803, C804	4	0.1 $\mu$ F			Ceramic, 50V, $\pm$ 10%, X7R		1.6 x 0.8 (0603)	Not Mounted
66	C101, C102, C201, C202, C304, C305, C404, C405	8	4.7 $\mu$ F			Ceramic, 50V, $\pm$ 10%, X7R		2.0 x 1.2 (0805)	
67	C701, C801	2	10 $\mu$ F			Ceramic, 50V, $\pm$ 10%, X5R		2.0 x 1.2 (0805)	
68	C303, C403,	2	4.7 $\mu$ F			Ceramic, 16V, $\pm$ 10%, X7R		1.6 x 0.8 (0603)	
69	C104, C105, C204, C205	4	47pF			Ceramic, 100V, $\pm$ 10%, X7R		1.6 x 0.8 (0603)	
70	C106, C107, C108, C109, C206, C207, C208, C209, C702, C802	10	10 $\mu$ F			Ceramic, 35V, $\pm$ 20%, X5R		1.6 x 0.8 (0603)	
71	C110, C210	2	10 $\mu$ F			Ceramic, 35V, $\pm$ 20%, X5R		1.6 x 0.8 (0603)	Not Mounted
72	C112, C212	2	4.7 $\mu$ F			Ceramic, 35V, $\pm$ 10%, X5R		1.6 x 0.8 (0603)	
73	C113, C213	2	4.7 $\mu$ F			Ceramic, 35V, $\pm$ 10%, X5R		1.6 x 0.8 (0603)	Not Mounted
74	C500, C501, C600, C601	4	0.47 $\mu$ F			Ceramic, 25V, $\pm$ 10%, X7R		1.6 x 0.8 (0603)	
75	C502, C602	2	68pF			Ceramic, 25V, $\pm$ 10%, X7R		1.6 x 0.8 (0603)	
76	C700, C800	2	120pF			Ceramic, 50V, $\pm$ 10%, X7R		1.6 x 0.8 (0603)	
77	T100, T200	2		750319496	Wurth Elektronik	Auxiliary Gate DriveTransformer			
78	CN1	1		XG4A-1431	OMRON	XG4A MIL Plugs with Long Locks (MIL Standards)			

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