

TSW308X EVM BOM rev B

Item	Quantity	Reference	Note	Part	Foot Print	Part Number	Manufacturer	Tol	Volt	Rating	DCR	Comment
1	4	C1,C2,C3,C4		.01uF	201	GRM033R71A1	Murata	10%	10V			
2	19	C5,C6,C7,C8,C9,C10,C11,C13,C14,C15,C25,C26,C27,C28,C38,C41,C42,C43,		.22uF	201	LMK063BJ224 MP-F	Taiyo Yuden	20%	10V			
3	5	C22,C30,C40,C53,C189		10uF	603	LMK107BJ106 MALTD	Taiyo Yuden	20%	10V			
4	11	C34,C37,C97,C112,C113,C119,C153,C253,C254,C264,C267		.1uF	402	ECJ-0EB1C104K	Panasonic	10%	16V			
5	7	C35,C47,C50,C261,C284,C288		1000pF	402	ECJ-0EB1E102K	Panasonic	10%	25V			
6	2	C36,C48		.1uF	201	LMK063BJ104K	Taiyo Yuden	10%	10V			
7	22	C52,C60,C77,C78,C80,C81,C82,C83,C84,C85,C86,C87,C88,C89,C90,C99,C102,C117,C135,		.1uF	402	GRM155R61C104KA88D	MURATA	10%				
8	1	C59		10uF	805	GRM21BR61C1	MURATA	10%	16V			
9	9	C63,C72,C128,C178,C179,C180,C181,C298,C		10uF	1206	GRM31CR61E106KA12L	MURATA	10%	16V			
10	3	C64,C110,C285		100pF	402	GRM1555C1H1	MURATA	5%	50V			
11	1	C65		.1uF	402	GRM155R71C1	MURATA	10%	16V			
12	3	C75,C215,C307		.01uF	402	C0402C103J3R	KEMET	10%	25V			
13	1	C76		1uF	603	0603YC105KAT	AVX	10%				
14	4	C79,C100,C101,C301		.1uF	201	GRM033R61A104KE15D	MURATA	10%				
15	2	C95,C96		47pF	402	GRM1555C1H4	Murata	5%	50V			
16	1	C107		8.2pF	402	04025A8R2CAT	AVX	5%	50V			

17	10	C111,C114,C115,C120,C164,C170,C174,C238,C244,C246		1uF	603	ECJ-1V41E105M	Panasonic	20%	25V			
18	8	C121,C122,C123,C124,C131,C132,C158,C159	DNI	.5pF	402	GRM1555C1HR50CZ01D	Murata	.25pF	50V			
19	4	C125,C126,C129,C130	DNI	1.0pF	402	GJM1555C1H1R0CB01D	Murata					
20	1	C127		1500pF	402	04025C152JAT	AVX	10%	50V			
21	10	C133,C134,C143,C144,C145,C146,C147,C148,C149,C161		10uF	805	GRM21BR71A106KE51L	Murata	10%	10V			
22	4	C150,C171,C172,C173		10uF	805	GRM21BR71A106KE51L	Murata	20%	10V			
23	1	C152		47uF	tant_b	T491B476M010	Kemet	20%	10V			
24	1	C154		1uF	402	C1005X5R1C10	TDK	10%	16V			
25	7	C155,C233,C234,C237,C242,C245,C247		10nF	402	C1005X7R1E103K	TDK	10%	25V			
26	2	C156,C168		.2pF	402	500R07S0R2BV	Johanson	.1pF	50V			
27	1	C157	DNI	0	402	RMCF0402ZT0	Stackpole	5%	50V			
28	2	C162,C243		10nF	402	C0402C103K3R	Panasonic	10%	25V			
29	1	C163		2.2uF	1206	ECJ-	Panasonic	10%	10V			
30	2	C165,C167		22uF	1206	GRM31CR60J2	Murata	10%	6.3V			
31	1	C166		33pF	402	250R07S330GV	Johansen	2%	25V			
32	2	C169,C240		2.2uF	603	ECJ-	Panasonic	10%	10V			
33	2	C175,C287		1000pF	402	04025C102JAT	AVX	5%	50V			
34	2	C176,C292		1uF	603	GRM188R61C1	MURATA	10%	16V			
35	2	C177,C300	DNI	.1uF	402	GRM155R71C1	MURATA	10%	16V			
36	2	C182,C250		.1uF	402	GRM155R61C1	MURATA	10%				
37	11	R179,R180,R181,R182,R183,C183,R184,R185,R186,R187,R1	DNI	0	402	RMCF0402ZT0R00	Stackpole Electronics Inc	5%				

38	8	C184,C185,C204,C205,C211,C213,C231,C232		3.3pF	402	GJM1555C1H3R3CB01D	MURATA	.25pF	50V			
39	8	C186,C190,C206,C210,C222,C223,C230,C283	DNI	3.3pF	402	GJM1555C1H3R3CB01D	MURATA	.25pF	50V			
40	2	C187,C208	DNI	100pF	402	GRM1555C1H1	Murata	5%	50V			
41	32	C191,C192,C193,C194,C195,C196,C197,C198,C199,C200,C216,C217,C218,C219,C220,C221,C224,C225,C226,C270,C271,C272,C273,C274,C275,C276,C277,C278,C27	DNI	CAP NP_1	402			.25pF	50V			
42	8	C214,C227,C228,C229,C235,C236,C239,C241	DNI	1uF	402	ECJ-0EB1A105M	Panasonic	10%	25V			
43	2	C248,C293		22pF	402	500R07S220GV	JOHANSON	2%	50V			
44	4	C249,C257,C294,C297		20pF	402	GRM1555C1H200JZ01B	MURATA	5%	50V			
45	2	C251,C295		.1uF	402	GRM155R61C1	MURATA	10%	16V			
46	4	C252,C255,C265,C266		3.3pF	402	GRM1555C1H3R3CZ01D	Murata					
47	1	C256		2.2uF	805	TMK212BJ225K	TAIYO YUDEN	10%				
48	2	C258,C268		6.8pF	402	GJM1555C1H6	Murata	.25pF	50V			
49	4	C259,C260,C263,C269		47pF	402	C1005C0G1H470G	TDK	2%	50V			
50	4	C262,C286,C290,C291		4.7uF	tant_a	TAJA475K020R	AVX	10%	20V			
51	1	C296		2.2uF	805	TMK212BJ225K	TAIYO YUDEN	10%				
52	1	C299		22pF	402	500R07S220GV	JOHANSON	2%				
53	1	C302		.01uF	402	0402YC103JAT	AVX	5%	16V			
54	2	C304,C305		10uF	805	GRM21BR70J1	MURATA	10%	6.3V			

55	1	C306		2.2uF	TANT_A	TAJA225K010R	AVX	10%					
56	1	C308	LOW	4.7uF	3528	T496B475M010	KEMET	20%	10V				
57	1	C309	LOW	10uF	3528	TPSB106K020	AVX	10%	20V				
58	3	D1,D5,D7		LED	LED_0805	LNJ306G5UUX	PANASONIC						
59	1	D2		Blue	LED_0805	LTST-	Lite On						
60	1	D3		LED	LED_0805	LNJ406K54RX	PANASONIC						
61	1	FB1		1.5K @	603	BLM18HE152S	Murata					.500	
62	1	FB7		1K OHM	1806	BLM41PG102S	MURATA						
63	1	FB8	OR	31 OHM	805	HI0805Q310R-	STEWART						
64	5	FB10,FB12,FB18,FB19,FB20		68 OHM @	1206	EXC-ML32A680U	Panasonic						
65	2	FB21,FB23	500mA	600	603	BLM18AG601S	MURATA						
66	12	FB22,FB24,FB33,FB34,FB35,FB36,FB37,FB38,FB39,FB40,FB		1K	1810	FBMH4525HM102NT	Taiyo Yuden						
67	1	FB26		120	1206	BLM31PG121S	MURATA						
68	3	FB28,FB30,FB3		27uF	1206_BEA	NFM31PC276B	MURATA						
69	1	F1	DNI	1 AMP	NANO_SM	0154001_DNI	LITTELFUSE						
70	1	JP2	(SHUNT	Jumper_	HDR_THVT	HMTSW-103-07-	SAMTEC						
71	5	JP3,JP12,JP13,JP14,JP15	(SHUNT	Jumper_	HDR_THVT	HMTSW-103-07-	SAMTEC						
72	1	JP4	2-3)	1x3_100	_1x3_100_	G-S-.230	SAMTEC						
73	10	J2,J3,J5,J7,J9,J11,J12,J16,J19,		HEADER	HDR_THVT	HTSW-103-07-	SAMTEC						
74	2	J6,J8		SMA THRU	SMA_THRT	132136	AMPHENOL CONNEX						
75	1	J10		MM8430	CON_SMV	MM8430-	MURATA						
76	1	J13		SMP_PC	smp_b120	853050232	Molex Inc.						
77	1	J14		HEADER	CON_SMV	QTH-090-01-L-	SAMTEC						
78	1	J15		USB_MI	CON_SMR	DX3R005HN2E	JAE						
79	1	J18		HTSW-	HDR_THVT	HTSW-105-07-	SAMTEC						
80	2	L5,L6		CONN	CON_RAP	RAPC722	Switchcraft						
81	3	L7,L25,L26		5.6nH	402	LL1005-	TOKO	1%					
82	8	L28,L32,L34,L38,L40,L42,L48,L		2.2uH	LPS3015	LPS3015-	Coilcraft						
83	1	Q1		33nH	402	0402CS-33NXJB	COILCRAFT	2%					
84	2	R5,R15		FDC361	SSOT6_FL	FDC3616N	Fairchild						
				100	201	CRCW0201100	Vishay/Dale	1%			1/20W		

85	6	R6,R94,R103,R110,R116,R134		0	402	ERJ-2GE0R00X	Panasonic						
86	13	R7,R18,R24,R93,R106,R109,R111,R131,R135,R136,R137,R2	DNI	0	402	ERJ-2GE0R00X	PANASONIC						
87	3	R8,R9,R11		750	603	CRCW0603750	DALE						
88	2	R16,R17		4.75K	402	ERJ-	PANASONIC						
89	8	R34,R36,R42,R99,R100,R101,R102,R112		49.9	201	CRCW020149R9FKED	Stackpole Electronics Inc	1%					
90	1	R40		3.01K	402	ERJ-	PANASONIC	5%	1/10W				
91	3	R43,R46,R122		1K	402	ERJ-	Panasonic	1%					
92	1	R44		1.27K	402	ERJ-	Panasonic	1%					
93	1	R45		10	402	CRCW040210R	Vishay/Dale	1%					
94	6	R48,R49,R50,R53,R58,R59		30.1	201	ERJ-1GEF30R1C	PANASONIC	1%					
95	4	R51,R52,R60,R		240	201	ERJ-	PANASONIC						
96	1	R54		22.1	402	ERJ-	PANASONIC						
97	4	R55,R56,R57,R	DNI	240	201	ERJ-	PANASONIC						
98	2	R61,R62	DNI	1K	402	ERJ-	PANASONIC						
99	1	R63		18	201	ERJ-	PANASONIC						
100	3	R70,R72,R90	DNI	10K	402	ERJ-	PANASONIC	1%					
101	6	R88,R96,R97,R98,R293,R294		0	603	RMCF0603ZT0R00	Stackpole Electronics Inc	5%					
102	1	R89		15K	402	ERJ-	PANASONIC	1%					
103	2	R95,R151		150K	402	RC0402FR-	Yageo	1%		1/16W			
104	2	R104,R148		750K	402	CRCW0402750	Vishay/Dale	1%		1/16W			
105	2	R105,R130		270	201	ERJ-	PANASONIC	1%					
106	3	R107,R113,R12		4.75K	402	ERJ-	PANASONIC	1%					
107	4	R108,R114,R175,R177		0	402	ERJ-2GE0R00X	Panasonic	5%					
108	12	R115,R118,R119,R132,R285,R286,R287,R288,R289,R290,R2	DNI	0	603	RMCF0603ZT0R00	Stackpole Electronics Inc	5%					
109	1	R117		0	603	ERJ-	Panasonic	5%					

110	3	R121,R125,R12		10K	402	ERJ-	PANASONIC	1%					
111	1	R123		3.3K	402	ERJ-	PANASONIC						
112	1	R124		1.69K	402	ERJ-	PANASONIC						
113	3	R126,R127,R14	DNI	0	805	RMCF0805ZT0	Stackpole	5%			1/8W		
114	2	R128,R146		0	805	RMCF0805ZT0	Stackpole	5%			1/8W		
115	1	R133	DNI	0	402	ERJ-2GE0R00X	Panasonic	5%					
116	1	R143		10K	603	ERJ-	Panasonic	1%			1/10W		
117	1	R150		191K	402	CRCW0402191	Vishay/Dale	1%			1/16W		
118	1	R153		182K	402	CRCW0402182	Vishay/Dale	1%			1/16W		
119	1	R157		31.6K	402	RMCF0402FT3	Stackpole	1%			1/16W		
120	33	R158,R160,R161,R162,R169,R173,R174,R178,R192,R208,R210,R212,R214,R216,R218,R220,R223,R277,R278,R279,R280,R281,R282,R283,R284,R296,R297,R298,R29		0	402	RMCF0402ZT0R00	Stackpole Electronics Inc	5%					
121	2	R159,R171		10K	402	ERJ-2GEJ103X	Panasonic	1%			1/16W		
122	1	R172	DNI	0	1206	CRCW1206000	Vishay/Dale	5%			1/4W		
123	1	R176		53.6K	402	RMCF0402FT5	Stackpole	1%			1/16W		
124	3	R189,R190,R19		17.4	402	ERJ-	Panasonic	1%					
125	8	R198,R199,R200,R201,R202,R203,R204,R205	DNI	49.9	402	RMCF0402FT49R9	Stackpole Electronics Inc	1%					
126	8	R206,R207,R225,R226,R227,R228,R229,R230		49.9	402	RMCF0402FT49R9	Stackpole Electronics Inc	1%					
127	8	R209,R211,R213,R215,R217,R219,R222,R224	DNI	2.74K	402	ERJ-2RKF2741X	Panasonic	1%					
128	2	R221,R257		174K	402	ERJ-	Panasonic	1%					
129	2	R275,R276		0	201	ERJ-	PANASONIC						
130	2	R313,R314		49.9	402	ERJ-	Panasonic	1%					

162	1	U21		TPS2400	DBV5	TPS2400DBVT	Texas						
163	2	U23,U24		TRF3705	QFN_24_1	TRF3705	Texas						
164	1	U26		CDCV30	TSSOP_8	CDCV304PW	Texas						
165	1	Y1		10.0000	OSC_6_SM	FVXO-HC73BR-	FOX						
166	4	Z_SCREW1,Z_SCREW2,Z_SCREW3,Z_SCRE	SCREW FOR STAND	SCREW PANHEA D 4-40 x		PMS 440 0038 PH	Building Fasteners						
167	6	Z_SH-H2,Z_SH-H3,Z_SH-H13,Z_SH-H14,Z_SH-H15,Z_SH-H16	SHUNT FOR HEADER	SHUNT-HEADER		MJ-5.97-G	Keltron						
168	1	Z_SH-H8	SHUNT	0 Ohm	402	ERJ-2GE0R00X	Panasonic						
169	3	Z_SH-H9,Z_SH-H10,Z_SH-H11	SHUNT FOR	0 Ohm		ERJ-2GE0R00X	Panasonic						
170	1	Z_SH-H21		SHUNT-		ERJ-3GE0R00V	PANASONIC						
171	1	Z_SH-J6	SHUNT	SHUNT-		MJ-5.97-G	KELTRON						
172	1	Z_SH-J7	SHUNT	SHUNT-		RMCF0402ZT0	Stackpole						
173	2	Z_SH-J27,Z_SH-J30	SHUNT FOR	SHUNT-JUMPER-		ERJ-2GE0R00X	PANASONIC						
174	4	Z_STANDOFF1,Z_STANDOFF2,Z_STANDOFF3,Z_STANDOFF	STAND OFF	STANDOFF ALUM HEX 4-		2204	Keystone						

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