

TSW12 66 EVM BOM rev A									
Item	Quantity	Reference	Note	Part	Part Number	Manufacturer	Foot Print	Tol	Rating
1	1	C1		1000pF	C1005C0G1E102J	TDK	402	5%	25V
2	1	C2		.5pF	500R07S0R5BV4T	Johanson Technology Inc	402	.1pF	50V
3	4	C3,C5,C11,C141		1000pF	C1005C0G1E102J	TDK	402	5%	25V
4	1	C4		1.5pF	UVK105CH1R5BW-F	Taiyo Yuden	402	.1pF	
5	0	C6	DNI	.8pF	500R07S0R8BV4T	Johanson Technology	402	.1pF	50V
6	1	C7		1pF	500R07S1R0BV4T	Johanson Technology	402	.1pF	50V
7	0	C8,C19,C27,C32,C147,C199,C200,C201	DNI	?	GRM155R71C104KA88D	Murata	603	10%	16V
8	17	C9,C14,C20,C28,C31,C80,C97,C191,C192,C193,C194,C195,C196,C197,C204,C205,C206		.1uF	GRM155R71C104KA88D	MURATA	402	10%	16V
9	1	C10		10uF	C1608X5R1A106K	TDK	603	10%	10V
10	1	C13		.01uF	GRM155R71C103KA01D	Murata	402		
11	22	C15,C16,C56,C58,C59,C60,C61,C62,C65,C68,C72,C145,C146,C159,C160,C161,C163,C169,C172,C173,C175,C190		.1uF	C0603X5R1A104K	TDK	201	10%	10V
12	4	C17,C29,C148,C202		4.7pF	C1608C0G1H4R7C	TDK	603	.25pF	50V
13	0	C18,C30,C70	DNI	.1uF	GRM155R71C104KA88D	MURATA	402	10%	16V
14	22	C21,C26,C57,C100,C102,C133,C134,C135,C142,C143,C144,C162,C164,C171,C174,C176,C177,C178,C179,C180,C181,C189		.01uF	C0603X5R0J103K	TDK CORP	201		
15	4	C36,C40,C49,C50		.1uF	GRM155R71C104KA88D	Murata	402	10%	16V
16	2	C39,C48		.01uF	GCM155R71H103KA55D	Murata	402	10%	16V
17	2	C55,C170	OR EQUIVALENT	1uF	GRM155R61A105KE15D	MURATA	402	10%	10V
18	0	C63,C73	DNI	.1uF	GRM155R61C104KA88D	MURATA	402	10%	
19	16	C64,C75,C76,C78,C79,C82,C83,C84,C89,C90,C92,C94,C96,C104,C155,C156		.1uF	GRM155R61C104KA88D	MURATA	402	10%	
20	0	C69	DNI	100pF	GCM1555C1H101JZ13D	Murata	402	5%	

21	10	C74,C77,C81,C91,C93,C95,C99,C117,C137,C139		10uF	GRM31CR61E106KA12L	MURATA	1206	10%	16V
22	1	C85		47pF	C1005C0G1H470J	TDK	402	5%	50V
23	1	C86		3900pF	C1005SL1A392J	TDK	402	5%	10V
24	1	C88		.68uF	GRM155F50J684ZE01	MURATA	402	20%	6.3V
25	1	C103		10uF	GRM21BR61C106KE15L	MURATA	805	10%	16V
26	8	C105,C106,C107,C108,C111,C151,C152,C153		.1uF	MURATA	MURATA	402	10%	
27	1	C110		10nF	GRM155R71H103KA88D	Murata	402	10%	50V
28	4	C87,C112,C115,C116,C140		.1uF	MURATA	MURATA	402	10%	16V
29	2	C113,C114		47pF	04025A470JAT2A	AVX	402		
30	1	C118		47uF	T491B476M010AT	Kemet	tant_b	20%	10V
31	6	C119,C122,C127,C131,C182,C185		10uF	GRM21BR71A106KE51L	Murata	805	20%	10V
32	1	C120		1uF	C1005X5R1C105K	TDK	402	10%	16V
33	6	C121,C125,C129,C132,C184,C186		1uF	ECJ-1V41E105M	Panasonic	603	20%	25V
34	5	C123,C126,C130,C167,C183		.1uF	ECJ-0EB1C104K	Panasonic	402	10%	16V
35	1	C124		10nF	C1005X7R1E103K	TDK	402	10%	25V
36	2	C128,C187		.01uF	C0402C103J3RACTU	KEMET	402	10%	25V
37	1	C136		10uF	GRM21BR70J106KE76L	MURATA	805	10%	6.3V
38	1	C138		47uF	T494B476M010AS	Kemet	TANT_B	20%	10V
39	1	C154		100pF	06031A101GAT2A	AVX CORP	603		
40	0	C168	DNI	22pF	GRM1555C1H220JZ01D	MURATA	402	5%	50V
41	1	C188		4.7uF	LMK212B7475KG-T	Taiyo Yuden	805	10%	10V
42	0	C207,C208,C210,C211,C213,C214,C216,C217	DNI	.1uF	GRM155R71C104KA88D	Murata	603	10%	16V
43	4	C209,C212,C215,C218		6.8pF	GRM1885C1H6R8CZ01D	Murata	603	.25pF	50V
44	3	D1,D2,D3		LED GREEN	LNJ306G5UUX	PANASONIC	LED_0805		
45	1	D4		LED AMBER	LNJ406K54RX	PANASONIC	LED_0805		
46	1	D5		GREEN	LTST-C170KGKT	LITE ON	LED_0805		
47	1	D6		LED RED	LTST-C170KRKT	LITE ON	LED_0805		
48	1	D7		Blue	LTST-C170TBKT	Lite On	LED_0805		
49	8	FB3,FB4,FB5,FB6,FB8,FB12,FB13,L32		68 OHM @ 100MHZ	EXC-ML32A680U	Panasonic	1206		
50	1	FB7		120 OHM @ 100MHz	BLM31PG121SN1L	MURATA	1206		
51	4	FB9,FB11,FB15,FB16		1K	FBMH4525HM102NT	Taiyo Yuden	1810		
52	2	FB10,FB14		27uF	NFM31PC276B0J3	MURATA	1206_BEAD_NF M31P		
53	0	F2	DNI	FUSE 2.0A 63V FAST	1206SFF200F/63-2	TE Connectivity	1206		

54	1	JP1	(SHUNT 1-2)	HEADER_1x3_100_430L	HMTSW-103-07-G-S-.240	SAMTEC	HDR_THVT_1x3_100_M		
55	1	JP9	SHUNT 1-2	HEADER, 3POS	HTSW-103-07-G-S	SAMTEC	HDR_THVT_1x3_100_M		
56	1	JP12	SHUNT	HDR, THVT, 2POS	HTSW-102-08-G-S	SAMTEC	HDR_THVT_1X2_100_M		
56A	1	JP13	SHUNT	HDR, THVT, 2POS	HTSW-102-08-G-S	SAMTEC	HDR_THVT_1X2_100_M		
57	1	J1		QTH-060-01-L-D-A-RT1	QTH-060-01-L-D-A-RT1	SAMTEC	CON_SMVT_120 POS_QTH_SAMT EC_RT1		
58	7	J2,J4,J6,J7,J8,J9,J20		SMA THRU HOLE R/A	132136	AMPHENOL CONNEX	SMA_THRT_276X 276		
59	2	J10,J11		SMP_PCB_SMT	853050232	Molex Inc.	smp_b120		
60	1	J13		HTSW-105-07-G-D	HTSW-105-07-G-D	SAMTEC	HDR_THVT_2x5_100_M		
61	1	J14		USB_SUPER- MINI_AB	DX3R005HN2E700	JAE	CON_SMRT_USB MNE20_F		
62	1	J15		CONN JACK PWR	RAPC722	Switchcraft	CON_RAPC722_J ACK_THVT_3		
63	1	J16		BLK	SPC15354	SPC TECHNOLOGY	JACK_THVT_BAN ANA_250DIA		
64	1	J17		RED	SPC15363	SPC TECHNOLOGY	JACK_THVT_BAN ANA_250DIA		
65	0	J18	DNI	HTSW-106-07-G-D	HTSW-106-07-G-S	SAMTEC	HDR_THVT_1x6_100_M		
66	0	J19,J21	DNI	HTSW-105-07-G-D	HTSW-108-07-G-S	SAMTEC	HDR_THVT_1x8_100_M		
67	0	J22	DNI	HTSW-104-07-G-D	HTSW-104-07-G-S	SAMTEC	HDR_THVT_1x4_100_M		
68	4	L4,L5,L11,L14		0	RMCF0805ZT0R00	Stackpole Electronics Inc	805	5%	
69	1	L7		4.3nH	0402CS-4N3XGL	Stackpole Electronics Inc	402	2%	
70	9	L8,L44,L45,R52,R53,R98,R99,R107,R109		0	RMCF0402ZT0R00	Stackpole Electronics Inc	402	5%	
71	4	L1,L2,L10,L13		5.6nH	0603HP-5N6XGL	Coilcraft	805	5%	
72	4	L17,L22,L25,L30		1uH	1008CS-102XJL	Coilcraft	1008	5%	
73	0	L31	DNI	2.7nH	0402CS-2N7XJL	Coilcraft	402	5%	
74	1	L33		40nH	0402CS-40NXJLW	Coilcraft	402	2%	
75	1	L35		1.2nH	0402CS-1N2XGL	Coilcraft	402	2%	
76	4	L36,L38,L40,L42		3.3nH	0805CS-030XJL	Coilcraft	805	5%	
77	4	L37,L39,L41,L43		10nH	0805CS-100XJL	Coilcraft	805	5%	

78	1	Q1		CSD17313Q2	CSD17313Q2	Texas Instruments	mosfet_8_2mmx2mm_0p65		
79	4	R1,R4,R13,R16		0	RMCF0603ZTOR00	Stackpole Electronics Inc	603	5%	
80	0	R278,R279,R280,R281	DNI	200	ERJ-3EKF2000V	Panasonic	603	1%	
80a	2	R282, R283	DNI	200	ERJ-3EKF2000V	Panasonic	603	1%	
81	0	R5,R6,R66,R69,	DNI	0	ERJ-2GE0R00X	PANASONIC	402		
82	2	R7,R75		1K	ERJ-2RKF1001X	Panasonic	402	1%	
83	8	R8,R46,R54,R74,R117,R118,R119,R120		0	RMCF0402ZTOR00	Stackpole Electronics Inc	402	5%	
84	0	R9,R20,R27,R47,R71,R92,R96,R106,R108,R110,R277	DNI	0	RMCF0402ZTOR00	Stackpole Electronics Inc	402	5%	
85	2	R10,R11		5.49K	ERJ-2RKF5491X	PANASONIC	402	1%	1/16W
86	0	R12	DNI	100	ERJ-1GEJ101C_DNI	PANASONIC	201	1%	1/20W
87	4	R17,R23,R24,R30		.1uF	C0603C104K3RACTU	Kemet	603	10%	
88	4	R18,R22,R25,R29		15	RMCF0603FT15R0	Stackpole Electronics Inc	603	5%	
89	4	R19,R21,R26,R28		75	RC0402FR-0775RL	Yageo	402	1%	1/16W
90	1	R31		49.9	ERJ-2RKF49R9X	PANASONIC	402	1%	1/16W
91	6	R2,R3,R14,R15,R35,R61		100	ERJ-3EKF1000V	PANASONIC	603	1%	1/10W
92	5	R48,R49,R50,R51,R79		10K	RMCF 1/16S 10K 1% R	Stackpole Electronics Inc	402	1%	1/16W
93	1	R55		620	ERJ-2RKF6200X	PANASONIC	402	1%	
94	1	R56		39K	CRCW040239K0FKED	Vishay/Dale	402	1%	
95	2	R64,R65		120	ERJ-2RKF1200X	PANASONIC	402		
96	0	R67,R97	DNI	82	CRCW060382R0FKEA	DALE	603	1%	1/10W
97	0	R68,R95	DNI	130	CRCW0603130RFKEA	DALE	603	1%	1/10W
98	3	R70,R72,R73		750	CRCW0603750RFKEA	DALE	603		
99	3	R76,R77,R78		10K	ERJ-2RKF1002X	PANASONIC	402	1%	
100	3	R80,R83,R85		3.01K	ERJ-2RKF3011X	PANASONIC	402	5%	
101	1	R82		0	ERJ-3GEY0R00V	Panasonic	603	5%	
102	1	R84		4.7K	ERJ-2RKF4701X	Panasonic	402	5%	
103	1	R87		10K	ERJ-3EKF1002V	Panasonic	603	1%	1/10W

NOTE: Place R282 between and on R278 and R279's pads Place R283 between and on R282 and R283's pads (see schematic for reference)

104	1	R88		53.6K	RMCF0402FT53K6	Stackpole Electronics Inc	402	1%	1/16W
105	3	R89,R91,R103		10K	ERJ-2GEJ103X	Panasonic	402	1%	1/16W
106	2	R90,R104		31.6K	RMCF0402FT31K6	Stackpole Electronics Inc	402	1%	1/16W
107	2	R93,R105		0	RMCF0402ZTOR00	Stackpole Electronics	402	5%	
108	1	R94		100K	ERJ-3GEYJ104V	Panasonic	603	1%	
109	1	R123		49.9	CRCW040249R9FKED	Vishay/Dale	402	1%	1/16W
110	1	R275		100	ERJ-2RKF1000X	PANASONIC	402	1%	
113	1	SJP1		JUMPER_T_0402_SMT	DNI	DNI	JUMPER_SMT_T_0603		
114	1	SJP3	SHUNT 2-3	Jumper_L_0402_SMT	NP PART-SMD PADS	NP PART	SMD_JUMPER_L_0402		
115	1	SW1		SW PUSHBUTTON	PTS635SL43	ITT Industries/C&K Div	SW_RESET_PTS635		
116	1	SW2		SW RESET	KT11P3JM	C&K	SW_SMVT_RESET		
117	3	TP2,TP3,TP15		BLU	5117	KEYSTONE	TP_THVT_060_RND		
118	1	TP4		Test Point White	5002	Keystone	TESTPOINT_62DIA		
119	7	TP5,TP6,TP9,TP10,TP16,TP17,TP18		Testloop_Red	5005	Keystone	testpoint_62dia		
120	1	TP7		Testloop_Red	5010	Keystone	testpoint_62dia		
121	5	TP8,TP11,TP12,TP13,TP14		Testloop_Black	5011	KEYSTONE	testpoint_62dia		
122	0	T1,T2	DNI	WBC4-1TL	WBC4-1TL	Coilcraft	XFMR_WBC		
123	0	T3	DNI	WBC1-1TL	WBC1-1TL	Coilcraft	XFMR_WBC		
124	0	T4	DNI	WBC1-1TL	WBC1-1TL	Coilcraft	XFMR_WBC		
125	1	T5		JTX-4-10T	JTX-4-10T	MINI-CIRCUITS	XFMR_6_310X280_100		
126	1	T6		BD0826J50200A00	BD0826J50200A00	Anaren	xfmr_balun_0805		
127	1	U1		LTC5585	LTC5585IUF#PBF	Linear Technology	qfn_24_163x163_0p50mm_pwrpad		
128	1	U2		LMH6521	LMH6521SQ	NATIONAL SEMI	QFN32_RGJ_RHB_RTV		

129	1	U3	TI SUPPLIED	ADS5402	ADS5402	TI	BGA_196_12MM X12MM_OP80M M		
130	1	U4		SN65LVDS100DGK	SN65LVDS100DGK	TI	VSSOP_8_122x12 2_26		
131	1	U5		LMK04808B	LMK04808BISQ	NATIONAL SEMI	QFN_64_360X36 0_0P50MM_SQA 64		
132	1	U6		EPM3064A	EPM3064ATC100-7N	Altera	TQFP_100_551x5 51_20		
133	1	U8		FT245RL	FT245RL	FTDI Chip	ssop_28_413x22 0_26		
134	0	U9	DNI	25AA512	25AA512-I/SM	MICROCHIP TECHNOLOGY	SO_8_210X212_ 50		
135	3	U10,U15,U19		TPS7A8001DRB	TPS7A8001DRB	Texas Instruments	SON_8_124x124 _pwrpad_DRB		
136	1	U11		TPS2400	TPS2400DBVT	Texas Instruments	DBV5		
137	1	U14		TPS76718Q	TPS76718QPWP	Texas Instruments	HTSSOP_20_260 x177_26_pwrpad		
138	1	Y2		80.00MHz	CVHD-950-122.88	Crystek	VCXO_4_SM_560 x360		
139	0	Y3	DNI	20MHz	ECS-200-20-30B-TR	ECS	OSC_4_SM_209x 138		
140	0	Y4	DNI	80.00MHz	CVHD-950-80.000	Crystek	VCXO_6_CUSTO M		
141	4	Z_SCREW1,Z_SCREW2,Z_SCREW 3,Z_SCREW4	SCREW FOR STANDOFF	SCREW PANHEAD 4-40 x 3/8	PMS 440 0038 PH	Building Fasteners			
142	2	Z_SH-H1,Z_SH-J5	OR EQUIVALENT	SHUNT-HEADER	MJ-5.97-G	KELTRON			
143	1	Z_SH-H8	OR EQUIVALENT	SHUNT- HEADER	MJ-5.97-G	KELTRON			
144	2	Z_SH-J1,Z_SH-J6	(SHUNT 1-3)	SHUNT-JUMPER- 0603	ERJ-3GEY0R00V	PANASONIC			
145	1	Z_SH-J4	SHUNT FOR JUMPER	SHUNT-JUMPER- 0402	ERJ-2GE0R00X	PANASONIC			
146	4	Z_STANDOFF1,Z_STANDOFF2,Z_ STANDOFF3,Z_STANDOFF4	STANDOFF	STANDOFF ALUM HEX 4-40 x .500	2203	Keystone			

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