

TSW40RF82EVM BOM Revision: A - Modified for TIDA-01435

Item	Quantity	Reference	Note	Value	Part Number	Manufacturer	Foot Print
1	1	CONN HOUS 2POS .100	For fan wires assembly; use crimp terminal 0008500114	Mating Connector for J38	22-01-3027	Molex	
2	4	C1,C317,C326,C342 C7,C9,C32,C33,C34,C35,C36,C37,C38,C39,C40,C41,C42,C45,C46,C49,C50,C53,C54,C57,C58,C61,C62,C65,C66,C69,C70,C73,C74,C77,C78,C81,C82,C85,C86,C88,C91,C92,C96,C99,C100,C103,C106,C107,C108,C109		0.01uF	GRM155R71H103KA88D	MURATA	402
3	46	C10,C11,C12,C13,C14,C15,C16,C17,C18,C19,C20,C21,C22,C23,C24,C25,C29,C110,C111,C112,C113,C114,C115,C116,C117,C118,C119,C120,C121,C122,C123,C124,C125,C126,C127,C128,C129,C130,C131,C132,C133,C134,C135,C136,C137,C138,C139,C140,C141,C142,C143,C146,C147,C148,C149,C150,C157,C172,C173,C176,C177,C179,C180,C182,C185,C230,C231,C233,C239,C241,C245,C246,C247,C249,C250,C251,C253,C255,C257,C260,C261,C264,C265,C268,C360,C361,C423,C424,C438,C439		.1uF	C0603X7S1A104K030BC	TDK	201
4	90	C26,C27,C397,C449		.1uF	GRM033R61A104KE15D	MURATA	201
5	4	C28		5600pF	GRM155R71H562KA88D	Murata	402
6	1	C30,C43,C47,C51,C55,C59,C63,C67,C71,C75,C79,C83,C89,C93,C95,C97,C101,C104		.001uF	04025C102JAT2A	AVX	402
7	18	C31,C48,C52,C56,C60,C64,C68,C72,C76,C80,C84,C87,C90,C94,C98,C102,C105		10uF	C1608X750J106M080AC	TDK CORP	603
8	17	C44		1uF	GRM155R61C105KE01D	Murata	402
9	1	C144,C145		1uF	02016D105MAT2A	AVX	201
10	2	C153		.01uF	C0603X5R1A103K030BA	TDK	201
11	1	C154,C159,C160,C164,C166,C277,C313,C341,C343,C355,C402,C436,C441,C451		.01uF	GRM155R71E103JA01J	MURATA	402
12	14	C161,C165		.1uF	GRM155R71C104KA88D	MURATA	402
13	0	C168,C178	DNI	.1uF	GRM155R71C104KA88D	MURATA	402
14	2	C170,C171,C181,C184,C207,C208,C225,C427,C428,C429,C430,C431,C432,C433,C434		100pF	GRM0335C1E101JA01D	Murata	201
15	15	C174,C183,C187,C189		10pF	GJM0336C1E100GB01D	Murata	201
16	4	C186,C188,C190,C191		1uF	CL03A105MP3NSNC	Samsung	201
17	4	C192		10uF	CL05A106MP5NUNC	Samsung	402
18	1	C193		560pF	GRM033R71E561KA01D	MURATA	201
19	1	C194		.047uF	GRM033R61C473KE84D	Murata	201
20	0	C195	DNI	6800pF	GRM033R71A682KA01D	Murata	201
21	1	C196,C197,C199,C200,C201,C216,C217,C218,C223,C224,C226,C227,C228		6800pF	GRM033R71A682KA01D	Murata	201
22	13	C198		0.1uF	GRM033R61A104KE15D	MURATA	201
23	1	C202		.68uF	C1005X750J684K050BC	TDK	402
24	1	C203		3900pF	02012D392KAT2A	AVX	201
25	1	C204,C206		47pF	GRM0335C1E470JA01D	MURATA	201
26	2	C219		0.1uF	C0603X7S1A104K030BC	TDK	201
27	1	C220		100pF	GRM033R71E101KA01D	Murata	201
28	0	C221	DNI	0.1uF	GRM033R61A104KE15D	MURATA	201
29	0	C222	DNI	.1uF	GRM033R61A104KE15D	MURATA	201
30	1	C229		2200pF	GRM033R71C222KA88D	Panasonic	201
31	1	C232,C235,C236,C237,C238,C243,C244,C254,C282		12pF	GRM0335C1H120GA01D	Murata	201
32	9	C234,C240		1uF	GRM155R61A105KE15D	MURATA	402
33	2	C242		0.01uF	GRM033R71A103KA01D	MURATA	201
34	1	C248,C258		10uF	CL05A106MP5NUNC	Samsung	402
35	2	C252,C256,C262		4.7uF	C1005X5R1A475M050BC	TDK	402
36	3	C259		10uF	CL05A106MQ5NUNC	SAMSUNG	402
37	1	C263		100uF	C1206C107M9PACTU	KEMET	1206
38	1	C266,C267		100uF	C3216X5R1A107M160AC	TDK	1206
39	0	C269,C270	DNI	22pF	GRM0335C1H220GA01D	AVX	201
40	2	C273		27pF	GRM0335C1E270JA01D	Murata	201
41	1	C274		47uF	GRM32ER71A476KE15L	MURATA	1210
42	1			22uF	GRM31CR71A226KE15L	MURATA	1206

43	7	C275,C295,C308,C314,C324,C437,C442		10uF	CL21B106KOQNNNE	SAMSUNG	805
44	7	C276,C320,C344,C347,C348,C435,C440		1.0uF	C1608X7R1E105K080AB	TDK	603
45	8	C278,C288,C297,C300,C302,C362,C377,C381		10uF	LWK212BJ106MD-T	Taiyo Yuden	508
46	3	C279,C315,C318 C280,C289,C298,C301,C303,C364,C378,C382,C44		47uF	C2012X5R1A476M125AC	TDK	805
47	9	3		1uF	C0816X5R1C105M050AC	Samsung	306
48	8	C281,C285,C299,C340,C365,C367,C379,C425		10uF	GRM21BR61E106KA73L	MURATA	805
49	1	C283		4.7uF	C1005X5R1A475K050BC	TDK	402
50	6	C290,C294,C366,C376,C380,C426		22uF	C2012X5R1A226K125AB	TDK	805
51	3	C309,C316,C325		1.0uF	CL10B105KO8NNNC	Samsung Electro-Mechanics America, Inc	603
52	1	C327		1.0uF	GRM155R61A105KE15D	Murata	402
53	2	C328,C398		.3pF	GRM1555C1HR30WA01D	MURATA	402
54	6	C330,C331,C332,C401,C403,C404		1000pF	CL05B102K05NNNC	Samsung	402
55	1	C345		47uF	GRM32ER61A476KE20L	MURATA	1210
56	1	C346		10uF	C1608X5R1A106K080AC	TDK	603
57	1	C353		33uF	C2012X5R1A336M125AC	TDK	805
58	2	C354,C358		10uF	C1608X5R1A106K080AC	TDK	603
59	4	C356,C359,C383,C384		.01uF	GRM033R71A103KA01D	MURATA	201
60	2	C400,C450		.1uF	GRM155R71C104KA88D	Samsung	402
61	1	C444		470uF	TPSD477M006R0100	AVX	7343
62	0	C445,C446,C447,C448	DNI	TBD		Murata	201
63	5	D1,D2,D3,D4,D5		LED GREEN	LTST-S270KGKT	LITE ON	LED_0603
64	3	D6,D7,D9		LED GREEN	LTST-C191KGKT	Lite-On	LED_0603
65	1	D10		LED GREEN	LTST-C150KGKT	LITE ON	LED_1206
66	11	FB1,FB2,FB3,FB4,FB5,FB6,FB7,FB8,FB9,FB10,FB11		120	BKP1005HS121-T	Taiyo Yuden	402
67	3	FB12,FB14,FB15		60 OHM @ 100MHz	FBMH1608HM600-T	Taiyo Yuden	603
68	9	FB13,FB17,FB18,FB20,FB37,FB40,FB41,FB42,FB53		27uF	NFM31PC276B0J3L	Murata	1206_BEAD_NFM31P
69	3	FB16,FB44,FB45 FB21,FB22,FB23,FB24,FB25,FB26,FB27,FB38,FB39		120 @100MHz	BLM31PG121SN1L	Murata	1206
70	15	,FB47,FB48,FB49,FB50,FB51,FB52		120 OHM @ 100MHz	BLM31PG121SN1L	MURATA	1206
71	0	F1	DNI	FUSE 2.0A 63V FAST	1206SFF200F/63-2	TE Connectivity	1206
72	1	HS1		HEAT SINK, DAC38RF8x, RED	10-1003850	SVT	HEATSINK_SVT_10-1003850
73	1	HS2	Soldered to bottom side of DUT	Copper Heatsink, .7 x .35 with FAN assembly	99-1005601	SVT Heatsink	HEATSINK_350X700
74	2	JP1,JP4	(SHUNT 2-3)	HDR 1x3 2mm	M22-2510305	Harwin Inc.	HDR_THVT_1x3_79_M
75	4	JP2,JP3,JP7,JP8	(SHUNT 1-2)	HDR 1x3 2mm	M22-2510305	Harwin Inc.	HDR_THVT_1x3_79_M
76	1	JP5	OPEN	HDR 1x2 2mm	M22-2010205	Harwin Inc.	HDR_THVT_1x2_79_M
77	1	JP6	SHUNT 1-2	HDR 1x2 2mm	M22-2010205	Harwin Inc.	HDR_THVT_1x2_79_M
78	5	J1,J3,J4,J9,J10		SMA, JACK, END LAUNCH	142-0721-841	Cinch Connectivity Solutions Johnson	SMA_SMEL_DUAL_PSF-S01_250x215
79	1	J5	OPEN	HDR 2X5	M22-2520505	Harwin Inc.	HDR_THVT_2x5_79_M
80	10	J8,J13,J39,J40,J41,J42,J43,J44,J45,J46		SMP CONN	853050232	Molex	smc_b120
81	1	J12		SMA_THVT_REC	142-0701-201	Johnson Components	SMA_THVT_312x312
82	1	J14		CON_SMVT_40x10_SEAM	SEAM-40-02.0-S-10-2-A-K-TR	SAMTEC	CON_SMVT_40X10_SEAM_MTG
83	1	J15		MINI B USB 2.0 OTG Receptacle, Vertical	5000751517	Molex	CON_THVT_USBMINI_AB_F
84	1	J17		PJ-006A	PJ-006A	CUI Inc	JACK_THVT_3_520x343x421
85	1	J38		HEADER 2POS, FAN POWER	22112022	Molex	hdr_thvt_1x2_100_m
86	4	L1,L2,L7,L8		49.9	ERJ-2RKF49R9X	PANASONIC	402
87	2	L9,L20		560nH	0402AF-561XJLU	Coilcraft	402
88	0	L10,L11,L12,L13,L14,L15,L16	DNI	1uH	84102C	Murata	IND_SM_142X189
89	1	L17		100uH	ME3220-104KLB	Coilcraft	IND_SM_110X138
90	2	L18,L19		0 ohm	ERJ-2GEOR00X	Panasonic	402
91	3	MT1,MT2,MT3 PP1,PP3,PP5,PP7,PP8,PP11,PP13,PP15,PP23,PP31 PP32,PP33,PP34,PP35,PP36,PP37,PP38,PP39,PP4 1,PP42,PP43,PP44,PP45,PP46,PP47,PP48,PP49,PP 50,PP51,PP52	STANDOFF	STANDOFF, 4-40, 3/16 Rd x 1 3/16 Length, ALUM	1648-440-AL	RAF Electronic Hardware	MFG125_PLATED
92	30	PP22,PP27,PP28,PP29,PP30		PROBE POINT	N/A	N/A	PROBE_POINT_30PAD
93	5	Q1,Q2		PROBE POINT	N/A	N/A	PROBE_POINT_22PAD
94	2	Q4		DTC114EET1G	DTC114EET1G	ON Semiconductor	SOT_416_3_63x31
95	1	R1		CSD18532Q5	CSD18532Q5B	Texas Instruments	SON_Q5B_8
96	1	R2,R3		17.8	ERJ-1GEF17R8C	Panasonic	201
97	2	R16,R17,R63,R68,R85,R86,R96,R99,R115,R118,R1 38,R248,R249,R250,R251,R296,R297,R298,R299, R304,R305,R306,R307,R312,R313,R314,R315,R33 0,R331,R375,R376,R377,R378		294	ERJ-1GEF2940C	Panasonic	201
98	33			0	ERJ-1GNOR00C	PANASONIC	201

99	3	R20,R23,R239		0	ERJ-2GE0R00X	PANASONIC	402
100	0	R24,R25,R182,R190,R208,R210,R212,R218,R327, R337,R339,R341,R343,R354,R359,R362,R364	DNI	0	ERJ-2GE0R00X	PANASONIC	402
101	4	R30,R128,R131,R160		1k	ERJ-2RKF1001X	PANASONIC	402
102	1	R31		3.65k	ERJ-1GEF3651C	PANASONIC	201
103	6	R38,R39,R213,R214,R215,R216		10K	ERJ-2RKF1002X	PANASONIC	402
104	0	R45,R102,R103,R107	DNI	100	ERJ-1GEF1000C	PANASONIC	201
105	2	R47,R150		1k	ERJ-1GEF1001C	PANASONIC	201
106	6	R49,R50,R151,R155,R156,R157		10k	ERJ-1GEF1002C	PANASONIC	201
107	0	R51,R53,R228,R229,R292,R293,R294,R295,R300, R301,R302,R303,R308,R309,R310,R311,R316,R31	DNI	0	ERJ-1GNOR00C	PANASONIC	201
108	0	R52	DNI	100	ERJ-1GEJ101C	Panasonic	201
109	5	R58,R59,R61,R62,R116		49.9	ERJ-1GEF49R9C	PANASONIC	201
110	1	R60		12k	ERJ-2RKF1202X	PANASONIC	402
111	0	R64	DNI	680	ERJ-1GEF6800C	PANASONIC	201
112	1	R67		680	ERJ-1GEF6800C	PANASONIC	201
113	1	R69		12	ERJ-1GEF12R0C	PANASONIC	201
114	1	R70		150	ERJ-1GEJ151C	PANASONIC	201
115	4	R71,R72,R94,R95		120	ERJ-1GEF1200C	PANASONIC	201
116	0	R73	DNI	24.9K	ERJ-1GEF2492C	PANASONIC	201
117	6	R74,R75,R81,R82,R113,R234		100	ERJ-1GEF1000C	PANASONIC	201
118	1	R76		39k	ERJ-1GEF3902C	PANASONIC	201
119	0	R77,R78,R89,R90,R105,R106,R110,R111,R117,R1	DNI	240	ERJ-1GEF2400C	PANASONIC	201
120	2	R79,R80		200	ERJ-1GEF2000C	PANASONIC	201
121	3	R83,R84,R93		49.9	ERJ-2RKF49R9X	PANASONIC	402
122	1	R87		620	ERJ-1GEF6200C	PANASONIC	201
123	0	R100,R101	DNI	200	ERJ-1GEF2000C	PANASONIC	201
124	0	R104,R112	DNI	130	ERJ-1GEF1300C	Panasonic	201
125	0	R108,R114	DNI	82	ERJ-1GEF82R0C	Panasonic	201
126	0	R109	DNI	49.9	ERJ-1GEF49R9C	PANASONIC	201
127	2	R120,R121		240	ERJ-1GEF2400C	PANASONIC	201
128	1	R122		1.3K	ERJ-1GEF1301C	Panasonic	201
129	31	R123,R129,R132,R136,R180,R188,R189,R207,R20 9,R211,R217,R230,R231,R232,R233,R326,R334,R 335,R336,R338,R340,R342,R355,R363,R365,R381 ,R384,R386,R387,R389,R391		0	ERJ-2GE0R00X	PANASONIC	402
130	4	R124,R125,R126,R127		750	ERJ-2RKF7500X	Panasonic	402
131	1	R137		3.01K	ERJ-2RKF3011X	PANASONIC	402
132	2	R139,R142		10	ERJ-1GEF10R0C	PANASONIC	201
133	6	R140,R141,R143,R144,R145,R148		22	ERJ-1GEF22R0C	PANASONIC	201
134	1	R146		4.7K	ERJ-1GEF4701C	PANASONIC	201
135	1	R147		12k	ERJ-1GEF1202C	PANASONIC	201
136	1	R159		2.2k	ERJ-1GEF2201C	Panasonic	201
137	1	R161		48.7k	ERJ-2RKF4872X	Panasonic	402
138	2	R163,R332		100K	ERJ-2RKF1003X	Panasonic	402
139	1	R168		41.2k	ERJ-2RKF4122X	PANASONIC	402
140	6	R169,R173,R200,R203,R206,R220		162k	ERJ-2RKF1623X	Panasonic	402
141	1	R171		205k	ERJ-2RKF2053X	PANASONIC	402
142	1	R176		0	5108	KEYSTONE	1206
143	1	R199		221K	ERJ-2RKF2213X	PANASONIC	402
144	2	R202,R205		71.5k	ERJ-2RKF7152X	PANASONIC	402
145	1	R219		511k	ERJ-2RKF5113X	PANASONIC	402
146	8	R224,R236,R237,R238,R356,R357,R358,R360		0	5106	KEYSTONE	805
147	0	R225,R361	DNI	0	5106	KEYSTONE	805
148	0	R254	DNI	1.27K	ERJ-2RKF1271X	PANASONIC	402
149	0	R256	DNI	10K	ERJ-2RKF1002X	PANASONIC	402
150	1	SHIELD1	DNI	2T2R_TX_SHIELD	SL-12433	Leader Tech	2T2R_TX_SHIELD
151	6	SHN9,SHN10,SHN11,SHN12,SHN13,SHN14		SHUNT, JUMPER 2mm	NPNO25XLN-RC	Sullins	
152	2	SW1,SW2		SWITCH, SMT, PUSHBUTTON	EVQ-PNF04M	Panasonic	SW_SMVT_SPST_EVQPIX_2
153	7	TP1,TP2,TP6,TP7,TP8,TP9,TP14		BLK	5001	Keystone	TP_THVT_060_RND
154	2	TP3,TP15		YELLOW	5004	KEYSTONE	TP_THVT_060_RND
155	1	TP5		RED	5000	KEYSTONE	TP_THVT_060_RND
156	2	TP10,TP16		Testloop_Red	5010	Keystone	testpoint_62dia

157	1	TP11		Testloop_Black	5011	KEYSTONE	testpoint_62dia
158	5	T3,T4,T5,T6,T7		TC1-1-43X-2+	TC1-1-43X-2+	MINI-CIRCUITS	TFMR_5_150X150_50
159	2	T8,T9		TCM2-452X-2+	TCM2-452X-2+	Mini-Circuits	TFMR_6_160x150_50
160	1	U1		DAC38RF82	DAC38RF82IAAV	Texas Instruments	BGA_144_10MMx10MM_OP80MM
161	1	U2		ADC32RF45	ADC32RF45IRMPT	Texas Instruments	QFN_72_10MMX10MM_OP50MM_PWRPAD
162	6	U3,U4,U27,U28,U29,U30		MASW_009444	MASW-009444-TR3000	Macom	PDFN_6_p35mm
163	1	U5		LMX2582	LMX2582RHAT	Texas Instruments	qfn40_RTA_RTb_RHA
164	1	U7		LMK04828	LMK04828BISQE/NOPB	Texas Instruments	QFN_64_360X360_OP50MM_PWRPAD
165	1	U8		LP5907-3.3	LP5907MFX-3.3/NOPB	Texas Instruments	DBV5
166	1	U10		FT4232H	FT4232HL-REEL	FTDI	LQFP_64_402x402_20
167	2	U11,U32		TXS0108E	TXS0108ERGYR	Texas Instruments	QFN_20_183x144_RGY
168	1	U12		93LC46B-I/MS	93LC46B-I/MS	Microchip	MSOP_8_118X118_26
169	1	U14		TPS2400	TPS2400DBVT	Texas Instruments	DBV5
170	1	U15		LM27761	LM27761DSGR	Texas Instruments	SON_DSG_8
171	6	U17,U19,U23,U24,U25,U26		TPS82085	TPS82085SILT	Texas Instruments	uSIL_8_3MMx2p8MM_0p65mm
172	1	U21		TPS7A8500	TPS7A8500GRRR	Texas Instruments	QFN20_RGR_p5mm
173	1	U22		TPS7A4700	TPS7A4700RGWT	Texas Instruments	QFN_20_199x199_0p65mm
174	1	U31		TXB0108	TXB0108RGYR	Texas Instruments	QFN_20_183x144_RGY
175	1	Y1		122.88MHz	CVHD-950-122.880	Crystek	VCXO_6_CUSTOM
176	1	Y2		12MHz w/ 10pF	ABM8G-12.000MHZ-B4Y-T	Abracon	XTAL_4_SM_130X102
177	1	Z_BOARD1		PCB, TSW40RF82	TSW40RF82 rev A		
178	3	Z_SCREW1,Z_SCREW2,Z_SCREW3	OR EQUIVALENT	SCREW, PHIL, 4-40x3/8", SS	PMSSS 400 0038 PH	BUILDING FASTENERS	
179	6	R388,R390,R380,R382,R383,R385		0	ERJ-2GE0R00X	PANASONIC	402

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