

DC073 - TSW12D1620EVM-CVAL BOM Rev A

Item	Qty	Reference	Note	Value	Part Number	Manufacturer	Foot Print
1	14	C1,C2,C6,C14,C16,C17,C24,C29,C136,C137,C138,C140,C142,C144		.1uF	GRM155R61A104KA01D	MURATA	402
2	0	C3,C13,C18,C23	DNI	.01uF	GRM033R60J103KA01D	MURATA	201
3	4	C4,C7,C19,C21		1pF	GJM1555C1H1R0WB01D	MURATA	402
4	4	C5,C8,C20,C22		2.7pF	GRM1555C1H2R7CA01D	MURATA	402
5	4	C9,C11,C25,C27		.01uF	LLL185R71E103MA01L	MURATA	306
6	4	C10,C12,C26,C28		2200pF	LLL185R71H222MA01L	MURATA	306
7	1	C15		.01uF	GRM155R71H103KA88J	MURATA	402
8	1	C30		0.1uF	0603YC104JAT2A	AVX	603
9	6	C31,C45,C163,C167,C170,C237		1uF	0603YD105KAT2A	AVX	603
10	13	C32,C33,C35,C38,C39,C128,C133,C135,C139,C203,C209,C212,C220		.1uF	GRM155R71C104KA88D	MURATA	402
11	2	C34,C37		100pF	04025A101JAT2A	AVX CORP	402
12	5	C36,C77,C96,C113,C123		10uF	293D106X0010B2TE3	Vishay Sprague	TANT_B
13	0	C40,C43	DNI	4700pF	CC0402KRX7R8BB472	YAGEO	402
14	2	C41,C42		4700pF	CC0402KRX7R8BB472	YAGEO	402
15	12	C44,C181,C192,C194,C195,C196,C201,C208,C211,C219,C222,C229		10uF	C1608X5R1A106K080AC	TDK	603
16	81	C46,C47,C48,C49,C50,C51,C52,C55,C56,C63,C64,C65,C66,C67,C68,C69,C70,C71,C72,C73,C74,C75,C76,C78,C79,C80,C81,C82,C83,C84,C85,C86,C87,C88,C89,C90,C91,C92,C93,C94,C95,C97,C98,C99,C100,C101,C102,C103,C104,C105,C106,C107,C108,C109,C110,C111,C112,C114,C115,C116,C117,C118,C119,C120,C121,C122,C124,		.1uF	GRM033R61A104KE15D	MURATA	201
17	8	C125,C126,C159,C161,C162,C171,C172,C173,C53,C54,C57,C58,C59,C60,C61,C62		0.1uF	GRM033R61A104KE15D	MURATA	201
18	6	C127,C150,C151,C152,C153,C154		10uF	LMK107BBJ106MALT	Taiyo Yuden	603
19	8	C129,C141,C143,C145,C146,C147,C148,C149		1uF	GRM152R60J105ME15D	MURATA	402
20	1	C130		1800pF	GRM1885C1H182JA01J	MURATA	603
21	1	C131		.068uF	GCM188R71H683KA57D	MURATA	603
22	1	C132		390pF	GRM1885C1H391GA01D	MURATA	603
23	1	C134		300pF	GRM1885C2A301JA01D	MURATA	603
24	3	C155,C193,C202		1uF	CC0402MRX5R6BB105	YAGEO	402
25	4	C156,C157,C165,C166		0.1uF	0603YC104KAT2A	AVX	603
26	3	C158,C160,C169		10uF	GRM188R60J106ME47D	MURATA	603
27	2	C164,C168		100uF	C1206C107M9PACTU	KEMET	1206
28	2	C174,C175		18pF	04025A180FAT2A	AVX	402
29	1	C180		47uF	TPSB476K010R0250	AVX	TANT_B
30	1	C182		22uF	GRM31CR61A226ME19L	MURATA	1206
31	1	C183		10uF	GCJ21BR71A106KE01L	MURATA	805
32	1	C184		.47uF	LMK105BJ474KV-F	Taiyo Yuden	402

33	2	C185,C198		.1uF	08053C104KAT2A	AVX	805
34	1	C186		47uF	GRM31CE70G476ME15L	MURATA	1206
35	1	C187		330uF	T491D337K006AT	KEMET	TANT_D
36	0	C188	DNI	270pF	GCM1885C2A271FA16D	Murata	603
37	1	C189		12nF	GRM155R71C123JA01D	MURATA	402
38	1	C190		91pF	CL21C910JBANNNC	SAMSUNG	805
39	1	C191		.027uF	CC0805KRX7R9BB273	YAGEO AMERICA	805
40	1	C197		.01uF	GRM033R60J103KA01D	MURATA	201
41	1	C199		220uF	593D227X96R3D2TE3	VISHAY-SPRAGUE	TANT_D
42	2	C200,C218		33uF	C2012X5R1A336M125AC	TDK	805
43	0	C204	DNI	1000pF	GRM216R71E102KA01D	MURATA	805
44	1	C205		2200pF	GRM033R70J222KA01D	MURATA	201
45	3	C206,C213,C224		15uF	T495X156M050ATE300	KEMET	TANT_X
46	3	C207,C214,C225		1uF	08055C105KAT2A	AVX	805
47	1	C210		.1uF	C1210C104K5RACTU	KEMET	1210
48	2	C215,C226		470pF	CGJ4C2C0G1H471J060AA	TDK	805
49	2	C216,C227		150uF	TPME157K016R0030	AVX	7343
50	2	C217,C228		15uF	C2012X5R1C156M125AC	TDK	805
51	3	C221,C223,C230		.01uF	CC0201KRX7R7BB103	YAGEO	201
52	1	C231		10pF	04025A180FAT2A	AVX	402
53	1	C232		10pF	04025U100CAT2A	AVX	402
54	0	C234,C235	DNI	27pF	04025A270FAT2A	AVX	402
55	1	C238		.001uF	04025C102JAT2A	AVX	402
56	2	D1,D3		LED ORANGE	LTST-C170KFKT	LITE-ON	LED_0805
57	2	D2,D4		1N4148W	1N4148W-7-F	DIODES INCORP	DIODE_SM_1N4148W
58	1	D5		LED RED	LTST-C170KRKT	LITE ON	LED_0805
59	4	D6,D7,D8,D10		LED GREEN	LTST-C170KGKT	LITE ON	LED_0805
60	1	D9		MBRB2515L	MBRB2515LT4G	ON Semiconductor	DIODE_MBRB2515L
61	2	FB1,FB2		120 OHM @ 100MHz	BLM18SG121TN1D	MURATA	IND_0603
62	1	FB3		26 OHM @ 100MHz	BLM18SG260TN1D	MURATA	IND_0603
63	2	FB4,FB5		27uF	NFM31PC276B0J3L	Murata	1206_BEAD_NFM31P
64	5	FB6,FB7,FB8,FB9,FB10		120 OHM @ 100MHz	BLM31PG121SN1L	MURATA	1206
65	0	F1	DNI	FUSE 10A 63V FAST	1206SFF200F/63-2	TE Connectivity	1206
66	2	JP1,JP2		JUMPER_1X2_100	HTSW-102-07-G-S	SAMTEC	HDR_THVT_1x2_100_M
67	7	JP3,JP4,JP5,JP6,JP7,JP8,JP9	SHUNT 2-3	JUMPER_1X3_100	HTSW-103-07-G-S	SAMTEC	HDR_THVT_1x3_100_M
68	3	JP10,JP12,JP13	SHUNT 1-2	JUMPER_1X3_100	HTSW-103-07-G-S	SAMTEC	HDR_THVT_1x3_100_M
69	1	JP11	SHUNT 1-2	HDR, THVT, 3POS, .100, GOLD	HTSW-103-07-G-S	SAMTEC	HDR_THVT_1x3_100_M
70	18	J21,J22,J26,J27		SMA, THVT, SMT CENTER PIN	SASF546-P26-X1	Lighthouse Tech	SMA_THVT_SMT_250x250
71	5	J7,J8,J9,J12,J35	OPEN	HDR, THVT, 2POS, .100, GOLD	HTSW-102-07-G-S	SAMTEC	HDR_THVT_1x2_100_M
72	2	J10,J34	SHUNT 1-2	HDR, THVT, 2POS, .100, GOLD	HTSW-102-07-G-S	SAMTEC	HDR_THVT_1x2_100_M
73	0	J11	DNI	HDR, THVT, 2POS, .100, GOLD	HTSW-102-07-G-S	SAMTEC	HDR_THVT_1x2_100_M
74	1	J24	OPEN	HDR, THVT, 2POS, .100	HTSW-102-07-G-S	SAMTEC	HDR_THVT_1x2_100_M
75	1	J28		CON, SMVT, HS, FIELD ARRAY, FMC, MALE	SEAM-40-02.0-S-10-2-A-K-TR	SAMTEC	CON_SMVT_40x10_SEAM_MTG

76	2	J29,J31	OPEN	HDR, THVT, 2POS, .100, GOLD	HTSW-102-07-G-S	SAMTEC	HDR_THVT_1X2_100_M
77	1	J30		HDR, THVT, 4POS, .100, GOLD	HTSW-104-07-G-S	SAMTEC	HDR_THVT_1x4_100_M
78	1	J32		CON, USB, MINI, AB, SMT	651305142821	WURTH ELEKTRONIK	CON_SMRT_USBMNE20_F
79	1	J33		CONN, JACK, PWR, MINI, R/A, TH	RAPC722X	SWITCHCRAFT	CON_RAPC722_JACK_THVT_3
80	1	J36		HDR, Shrouded, 14 POS STRGHT GOLD	N2514-6002-RB	3M	_THVT_2x7_100_M_SHROUDED_
81	4	L1,L3,L5,L7		6.8nH	0603HC-6N8XJLU	COILCRAFT	IND_0603
82	4	L2,L4,L6,L8		3.6nH	0603HC-3N6XJLU	COILCRAFT	IND_0603
83	2	L9,L10		18nH	LQG15HS18NJ02D	MURATA	IND_0402
84	1	L11		1.5uH	SRP7030-1R5FM	BOURNS	IND_SM_6p7MMx6p7MM
85	4	MT1,MT2,MT3,MT4	STANDOFF	STANDOFF, FEMALE, 4-40 X 1 3/16", AL	1648-440-AL	RAF	MFG125_PLATED
86	1	PCB1		BARE BOARD, DC073	TSW12D1620EVM-CVAL REV A	ANY VENDOR	
87	0	PP1	SMD PAD	PROBE POINT	P1113SS3	HARWIN	PROBE_POINT_30PAD
88	0	PP2,PP3,PP4,PP5,PP6,PP7,PP8,PP9,PP10,PP11, PP12,PP13,PP14,PP15,PP16,PP17,PP18	SMD PAD	PROBE POINT	P1113SS3	HARWIN	PROBE_POINT_30PAD
89	1	Q1		CSD18532Q5	CSD18532Q5B	Texas Instruments	SON_Q5B_8
90	0	R1,R12,R16,R27,R117,R121,R129,R131,R139,R 144,R153,R156,R159	DNI	0	ERJ-2GE0R00X	PANASONIC	402
91	4	R2,R11,R17,R24		200	ERJ-2RKF2000X	PANASONIC	402
92	4	R3,R7,R18,R25		12.1	ERJ-2RKF12R1X	PANASONIC	402
93	4	R4,R9,R19,R23		40.2	ERJ-2RKF40R2X	PANASONIC	402
94	4	R5,R8,R20,R26		1.1k	ERJ-2RKF1101X	PANASONIC	402
95	0	R6,R22	DNI	200	ERJ-2RKF2000X	PANASONIC	402
96	8	R10,R21,R91,R96,R97,R99,R100,R104 R13,R28,R32,R33,R38,R47,R48,R110,R119,R14		49.9	ERJ-2RKF49R9X	PANASONIC	402
97	16	1,R142,R145,R146,R147,R162,R176		10k	ERJ-2RKF1002X	PANASONIC	402
98	3	R14,R15,R148		1k	ERJ-3EKF1001V	PANASONIC	603
99	7	R29,R30,R35,R40,R46,R102,R160		1K	ERJ-2RKF1001X	PANASONIC	402
100	2	R31,R36		1M	ERJ-2RKF1004X	PANASONIC	402
101	2	R34,R37		1.2k	ERJ-2RKF1201X	PANASONIC	402
102	2	R39,R41		1.3k	ERJ-2RKF1301X	PANASONIC	402
103	2	R42,R44 R43,R45,R84,R90,R98,R101,R103,R106,R108,R 109,R114,R115,R116,R120,R127,R128,R130,R1		3.3k	ERA-2AEB332X	PANASONIC	402
104	19	86,R187		0	ERJ-2GE0R00X	PANASONIC	402
105	1	R49		750	ERJ-2RKF7500X	PANASONIC	402
106	1	R51 R53,R105,R122,R123,R124,R125,R126,R133,R1 34,R136,R138,R143,R149,R150,R151,R155,R19		100k	ERJ-2RKF1003X	PANASONIC	402
107	19	1,R192,R193		100	ERJ-2RKF1000X	PANASONIC	402
108	4	R54,R55,R56,R57		1k	RCS0603F102CS	Samsung	201
109	8	R61,R62,R67,R68,R71,R72,R77,R78		120	ERJ-1GNJ121C	PANASONIC	201
110	8	R64,R65,R80,R81,R194,R195,R196,R197		0	ERJ-1GN0R00C	PANASONIC	201
111	2	R70,R79		100	ERJ-1GNF1000C	PANASONIC	201

112	0	R73,R75,R82,R83	DNI	0	ERJ-1GN0R00C	PANASONIC	201
113	6	R85,R86,R87,R88,R170,R172		0	5106	Keystone	805
114	1	R89		18	ERJ-2RKF18R0X	PANASONIC	402
115	2	R92,R94		150	ERJ-2RKF1500X	PANASONIC	402
116	0	R93	DNI	100	ERJ-2RKF1000X	PANASONIC	402
117	1	R95		68	ERJ-2RKF68R0X	PANASONIC	402
118	1	R107		330	ERJ-2RKF3300X	PANASONIC	402
119	0	R111	DNI	10k	ERJ-2RKF1002X	PANASONIC	402
120	1	R112		4.99k	ERJ-2RKF4991X	PANASONIC	402
121	1	R113		100	ERJ-3EKF1000V	PANASONIC	603
122	1	R118		270	ERJ-2RKF2700X	PANASONIC	402
123	1	R132		0	ERJ-3GEY0R00V	PANASONIC	603
124	2	R135,R137		10	ERJ-3EKF10R0V	PANASONIC	603
125	1	R140		12k	ERJ-3EKF1202V	PANASONIC	603
126	1	R157		2.2k	ERJ-2RKF2201X	PANASONIC	402
127	1	R161		49.9k	ERJ-2RKF4992X	PANASONIC	402
128	1	R163		10k	ERJ-3EKF1002V	PANASONIC	603
129	0	R164	DNI	3.16k	ERJ-2RKF3161X	PANASONIC	402
130	0	R165	DNI	86.6k	ERJ-2RKF8662X	PANASONIC	402
131	1	R166		1.74k	ERJ-2RKF1741X	PANASONIC	402
132	1	R167		5.62k	ERJ-3EKF5621V	PANASONIC	603
133	0	R168,R169	DNI	0	5106	Keystone	805
134	1	R171		20k	ERJ-2RKF2002X	PANASONIC	402
135	1	R173		21.5k	ERJ-2RKF2152X	PANASONIC	402
136	1	R174		3.65k	ERJ-2RKF3651X	PANASONIC	402
137	1	R175		8.25k	CRCW04028K25FKED	VISHAY DALE	402
138	1	R177		4.87k	ERJ-6ENF4871V	PANASONIC	805
139	1	R178		28k	ERJ-2RKF2802X	PANASONIC	402
140	1	R179		4.75k	ERJ-6ENF4751V	PANASONIC	805
141	1	R180		6.81k	ERJ-6ENF6811V	PANASONIC	805
142	2	R181,R183		4.02k	ERJ-6ENF4021V	PANASONIC	805
143	1	R182		11.8k	ERJ-6ENF1182V	PANASONIC	805
144	2	R184,R185		0	ERJ-3GEY0R00V	PANASONIC	603
145	1	R188		390	ERJ-2RKF3900X	PANASONIC	402
146	1	R189		6.81k	ERJ-2RKF6811X	PANASONIC	402
147	1	R190		47k	ERJ-2RKF4702X	Panasonic	402
148	11	SHN1,SHN2,SHN3,SHN4,SHN5,SHN6,SHN7,SHN8,SHN9,SHN10,SHN11,SHN12,SHN13,SHN14			SPC02SYAN	Sullins	
149	1	SHN8			SHUNT HEADER	Sullins	
150	1	SW1			MSP INP	C&K Components	sw_thvt_spst_pts635sl43
151	1	SW2			MSP RST	C&K Components	sw_thvt_spst_pts635sl43
152	1	SW3			PWR ON/OFF	C&K	SW_SMVT_SPST_ES02
153	13	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP16,TP17,TP18,TP19			ORN	KEYSTONE	TP_THVT_100_RND

154	1	TP10		RED	5010	KEYSTONE	TP_THVT_125_RND_063D
155	1	TP11		BLK	5011	KEYSTONE	TP_THVT_125_RND_063D
156	4	TP12,TP13,TP14,TP15		BLK	5001	KEYSTONE	TP_THVT_100_RND
157	1	T1		TC1-1-43X+	TC1-1-43X+	Mini-Circuits	TFMR_5_150x150_50
158	2	U1,U2		LMH5401-SP	LMH5401FFK/EM	Texas Instruments	LCCC_14_5p5x6MM_1P27
159	1	U3		LMC6762	LMC6762AIM/NOPB	Texas Instruments	SOIC_8_197x157_50
160	1	U4		ADC12D1620QML-SP	ADC12D1620CCMPR	Texas Instruments	ADC12D1620CCMPR
161	1	U5		TMP461-SP	TMP461HKU/EM	Texas Instruments	CFP_10_270x276_50_PWRPAD
162	1	U6		CDCLVP111-SP	CDCLVP111HFG/EM	Texas Instruments	CQFP_HFG_36_0p635mm
163	1	U7		LMX2615-SP	LMX2615CV2	Texas Instruments	CQFP_64_429x429_0p5MM
164	0	U8	DNI	24LC65	24C65T-I/SM	MICROCHIP TECHNOLOGY	SO_8_207x207_50
165	1	U9		SN74AVC4T774	SN74AVC4T774PWR	Texas Instruments	TSSOP_16_201x177_26
166	1	U10		TLV70233	TLV70233DBVT	Texas Instruments	SOT_5_120x69_37
167	1	U11		SN74LVC1G125DBVR	SN74LVC1G125DBVR	Texas Instruments	SOT_5_120x69_57
168	1	U12		FT4232HL	FT4232HL-REEL	FTDI	LQFP_64_402x402_20
169	1	U13		93LC46B-I	93LC46B-I/MS	MICROCHIP TECHNOLOGY	MSOP_8_118x118_0p65MM
170	1	U14		TPS2400	TPS2400DBVT	Texas Instruments	DBV5
171	1	U15		TPS50601A-SP	TPS50601AHKH/EM	Texas Instruments	CFP_20_300x510_50_PWRPAD
172	1	U16		TPS7H1101A-SP	TPS7H1101AHKR/EM	Texas Instruments	DUAL_FLATPACK_TPS7H1101-SP
173	1	U17		LP2953QML-SP	LP2953AMGW-QMLV	Texas Instruments	CFP_NAC_16_0P5mm
174	2	U18,U19		TPS7A4501-SP	TPS7A4501HKU/EM	Texas Instruments	CFP_10_270x276_50_PWRPAD
175	1	U20		MSP430FR5969-SP	M4FR5969SRGZT-MLS	Texas Instruments	qfn_48_281x281_0p50mm_rgz
176	2	U21,U22		LMT01	LMT01DQXT	Texas Instruments	LMT01-SP
177	1	Y1		100.0000MHz	LMK62E2-100M00SIAT	Texas Instruments	OSC_6_SM_SIA0006B
178	1	Y2		12MHz, 18pF	ABM3-12.000MHZ-B2-T	ABRACON	XTAL_2_SM_126x197
179	1	Y3		32.768KHZ	MS3V-T1R 32.768KHZ 7PF +/-20PPM TA QC	Micro Crystal	xtal_2_sm_ms3v-t1r_264x55
180	0	Y4	DNI	4MHz	ECS-40-20-1X	ECS	XTAL_HC-49UX
181	4	Z_SCREW1,Z_SCREW2,Z_SCREW3,Z_SCREW4	SCREW FOR STANDOFF	SCREW, 4-40 X 3/4", PHIL, SS	PMSSS 440 0075 PH	BUILDING FASTENERS	
182	1	Z_SH-H1	OR EQUIVALENT	SHUNT- HEADER	1-382811-6	TE CONNECTIVITY	
183	1	KITTING ITEM		DC074 FMC TSW14DL3200 RX	EDGE# 6622630		

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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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