

## TIDA-00942 Bill of Materials

Item	Qty	Designator	Value	Description	Manufacturer	Part Number	Note
1	1	C1	82pF	0402	KEMET	CBR04C820F3GAC	
2	2	C2,C99	12pF	0402	KEMET	CBR04C120F5GAC	
3	1	C3	5.6pF	0402	AVX CORP	MK02275R6BAT2A	
4	1	C4	10uF	0805	KEMET	C0805C106K8RACTU	
5	1	C5	.1uF	0805	AVX CORP	08055C104KAT2A	
6	12	C6,C7,C10,C35,C38,C46,C50,C61,C71,C76,C83,C103	.1uF	0402	MURATA	GRM155R61A104KA01D	
7	2	C8,C9	.1uF	0402	MURATA	GRM155R61A104KA01D	
8	1	C11	5pF	0402	MURATA	GJM1555C1H5R0BB01D	
9	4	C12,C21,C24,C28	0.1uF	0603	AVX	0603YC104KAT2A	
10	20	C13-C20,C22,C23,C29-C32,C39,C51,C53,C54,C101,C102	.01uF	0402	MURATA	GRM155R71H103KA88J	
11	1	C25	4.7uF	TANT_A	AVX	TAJA475K020RNJ	
12	2	C26,C27	47pF	0603	KEMET	C0603C470J5GACTU	
13	1	C33	47uF	TANT_B	KEMET	T494B476M010AT	
14	2	C34,C52	10uF	TANT_B	Vishay Sprague	TR3B106K010C0800	
15	2	C36,C40	1uF	0603	AVX	0603YD105KAT2A	
16	1	C41	22pF	0402	AVX CORP	04025A220FAT2A	
17	3	C42,C44,C49	10uF	0805	MURATA	GRM21BR61A106KE19L	
18	2	C43,C48	33uF	TANT_B	AVX	TAJB336K016RNJ	
19	1	C45	2.2uF	0603	MURATA	GRM188R71A225KE15J	
20	1	C56	680pF	0402	AVX CORP	04025C681JAT2A	
21	2	C57,C58	.1uF	1206	TDK	C3216C0G1H104J160AA	
22	2	C59,C60	6.8uF	1206	TDK	C3216X5R1H685K160AB	
23	0	C62	10pF	0402	KEMET	C0402C100K5GACTU_DNI	DNI
24	2	C75,C82	10uF	0805	Samsung	CL21B106KOQNNNE	
25	4	C77,C78,C86,C87	10uF	1206	MURATA	GRM31CR71A106KA01L	
26	3	C79,C80,C88	.01uF	0402	MURATA	GRM155R71H103KA88D	
27	3	C84,C90,C91	1uF	0805	TDK CORP	C2012X5R1E105K125AA	
28	2	C89,C104	1uF	0402	MURATA	GRM155R60J105KE19D	OR EQUIVALENT
29	1	C98	.1uF	0805	Taiyo Yuden	LMK212SD104JG-T	High Frequency
30	1	D1	BAV99W	SOT_323	NXP Semiconductors	BAV99W-7-F	
31	2	FB1,FB5	120 OHM @ 100MHz	1206	MURATA	BLM31PG121SN1	
32	2	FB3,FB4	27uF	1206_BEAD_NFM31P	MURATA	NFM31PC276BOJ3	
33	2	FB6,FB7	1k @ 100MHz	1806	MURATA	BLM41PG102SN1L	
34	1	J1	BNC, HIGH FREQ, END LAUNCH	BNC_END_LAUNCH_50_OHM_112640	AMPHENOL	112640	
35	1	J2	HDR, THVT, 6POS, .100, FEMALE	HDR_THVT_1x6_100_M	SAMTEC	SSW-106-03-G-S	
36	1	J3	SMA_END_JACK_RND	SMA_SMEL_250x215	Johnson Components	142-0711-821	
37	1	J4	USB, MINI_AB	CON_SMRT_USBMNE20_F	WURTH ELEKTRONIK	651305142821	

38	2	J5,J6	HDR, THVT, 46POS, .100, FEMALE	HDR_THVT_2x23_100_M	SAMTEC	SSW-123-03-G-D	
39	5	JP1,JP3,JP5,JP7,JP9	HEADER, 2POS, .100	HDR_THVT_1X2_100_M	SAMTEC	HTSW-102-07-G-S	
40	1	JP2	HEADER, 2POS, .100	HDR_THVT_1X2_100_M	SAMTEC	HTSW-102-07-G-S	SHUNT 1-2
41	3	JP4,JP6,JP8	HEADER, 3POS, .100	HDR_THVT_1x3_100_M	SAMTEC	HTSW-103-07-G-S	SHUNT 1-2
42	1	L1	2.2uH	LPS3015	Coilcraft	LPS3015-222ML	
43	2	L2,L3	390nH	IND_0603	COILCRAFT	0603LS-391XGL	
44	4	MT1-MT4	STANDOFF, FEMALE, 4-40 X 3/4"	MFG125_PLATED	KEYSTONE	2204	STANDOFF
45	0	PP1-PP6	PROBE POINT	PROBE_POINT_30PAD	N/A	N/A	
46	2	R1,R3	27.4	0402	TE CONNECTIVITY	1879213-3	
47	2	R2,R4	8.25	0402	VISHAY DALE	CRCW04028R25FKED	
48	2	R5,R6	348	0402	PANASONIC	ERJ-2RKF3480X	
49	2	R7,R17	221	0402	PANASONIC	ERJ-2RKF2210X	
50	2	R8,R11	392	0402	PANASONIC	ERJ-2RKF3920X	
51	1	R9	49.9	1206	PANASONIC	ERA-8AEB49R9V	
52	1	R10	150	1206	PANASONIC	ERJ-8ENF1500V	
53	1	R12	649k	0402	PANASONIC	ERJ-2RKF6493X	
54	1	R13	215k	0402	PANASONIC	ERJ-2RKF2153X	
55	1	R14	442	0402	PANASONIC	ERJ-2RKF4420X	
56	2	R15,R20	5.6k	0402	PANASONIC	ERJ-2RKF5601X	
57	1	R16	200	1206	PANASONIC	ERA-8AEB201V	
58	1	R18	0	0603	PANASONIC	ERJ-3GEY0R00V	
59	1	R19	2k	0402	PANASONIC	ERJ-2RKF2001X	
60	1	R21	49.9	0603	PANASONIC	ERJ-3EKF49R9V	
61	3	R22,R23,R26	4.75k	0402	PANASONIC	ERJ-2RKF4751X	
62	6	R24,R85-R89	10k	0402	PANASONIC	ERJ-2RKF1002X	
63	2	R25,R55	49.9	0402	PANASONIC	ERJ-2RKF49R9X	
64	1	R27	22.1	0402	PANASONIC	ERJ-2RKF22R1X	
65	2	R30,R32	3k	0402	PANASONIC	ERJ-2RKF3001X	
66	0	R31	0	0402	PANASONIC	ERJ-2GE0R00X_DNI	DNI
67	1	R41	4.7k	0402	PANASONIC	ERJ-2RKF4701X	
68	1	R42	0	0402	PANASONIC	ERJ-2GE0R00X	
69	1	R44	360k	0402	PANASONIC	ERJ-2RKF3603X	
70	1	R46	180k	0402	PANASONIC	ERJ-2RKF1803X	
71	2	R53,R54	5.1	0402	PANASONIC	ERJ-2GEJ5R1X	
72	1	R56	1M	0402	Vishay Dale	CRCW04021M00FKED	
73	1	R57	249	0402	PANASONIC	ERA-2AEB2490X	
74	1	R83	34.8k	0402	PANASONIC	ERA-2AEB3482X	
75	1	R84	12k	0402	PANASONIC	ERA-2AEB123X	
76	2	RN1,RN2	22	rnet8_16_0603	CTS	742C163220JP	
77	1	SW1	SWITCH, ULTRA MINI	SW_SM_2POS_144X244_50_TDA	C&K COMPONENTS	TDA02H0SB1	
78	6	TP3,TP12,TP15-TP18	BLU	TP_THVT_100_RND	KEYSTONE	5117	
79	4	TP8,TP9,TP13,TP14	BLK	TP_THVT_125_RND_063D	KEYSTONE	5011	
80	2	TP10,TP11	RED	TP_THVT_125_RND_063D	KEYSTONE	5010	
81	1	U1	ADS4122	QFN_48_281x281_0p50mm_RGZ	Texas Instruments	ADS4122IRGZT	
82	1	U2	FT245RL	ssop_28_413x221_26	FTDI Chip	FT245RL-REEL	
83	1	U3	SN74AVC16T245DGGR	TSSOP_48_496x244_20	Texas Instruments	SN74AVC16T245DGGR	
84	1	U4	TPS62590	SON_DRV_6	Texas Instruments	TPS62590DRVT	

85	1	U5	THS4541	VQFN_16_124X124_PWRPAD	Texas Instruments	THS4541IRGTT	
86	1	U6	OPA656NB	SO_8_197x157_50	Texas Instruments	OPA656NB/250	
87	1	U7	TPS7A4901	SON_8_3MMx3MM_0p65MM	Texas Instruments	TPS7A4901DRBR	
88	1	U8	TPS60403	SOT-23_5_63x114_DBV	Texas Instruments	TPS60403DBVR	
89	1	U9	TPS7A3001	SON_8_3MMx3MM_0p65MM	Texas Instruments	TPS7A3001DRBR	
90	1	U10	SN74AVC4T774	TSSOP_16_201x177_26	Texas Instruments	SN74AVC4T774PWR	
91	1	U11	SN74CB3Q3257	VQFN_16_163X144_0P50MM_RGY	Texas Instruments	SN74CB3Q3257RGYR	
92	1	U12	TPS3125J18	SOT-23_5_63X114_DBV	Texas Instruments	TPS3125J18DBVR	
93	2	U13,U14	SN74AUC1G125	SOT-23_5_63X114_DBV	Texas Instruments	SN74AUC1G125DBVR	
94	1	U15	CAT24C256W	SOIC_8_197X157_50	ON Semi	CAT24C256WI-GT3	
95	1	Y1	20.000MHz	OSC_4_SM_295X197	CRYSTEK	CVHD-575X-20.0000MHz	
96	1		BARE BOARD, ADS412X_CAPE		TTM	ADS412X_CAPE REV E1	
97	4		PANHEAD SCREW 4-40 x 3/8"		Building Fasteners	PMS 440 0038 PH	SCREW FOR STANDOFF
98	4		SHUNT-HEADER		TE CONNECTIVITY	1-382811-6	OR EQUIVALENT

NOTES:

1. DNI MEANS DO NOT INSTALL.
2. ASSEMBLY MUST BE RoHS COMPLIANT AND LEAD FREE.
3. USE WATER SOLUBLE FLUX DURING BOARD ASSEMBLY.
4. INSTALL ITEM 98:  
JP2, JP4, JP6, JP8 SHUNT 1-2

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