

Bill of Materials

TI DESIGNS

TIDA-00822

Item	Qty	Part Reference	Value	PCB Footprint	Mfr_Name	Mfr_Part_Number	Note
1	4	C1 C3 C14 C16	.01uF	0306	MURATA	LLL185R71E103MA01L	
2	4	C2 C4 C15 C17	2200pF	0306	MURATA	LLL185R71H222MA01L	
3	14	C5 C10 C13 C18 C24 C27 C101 C104 C197 C198 C200-C203	.01uF	0402	MURATA	GRM155R71H103JA88D	
4	0	C6 C19	5.6pF	0402	AVX CORP	MK02275R6BAT2A_DNI	DNI
5	2	C7 C20	9pF	0402	MURATA	GJM1555C1H9R0CB01D	
6	2	C8 C21	6.2pF	0402	MURATA	GJM1555C1H6R2CB01D	
7	32	C9 C12 C23 C26 C35 C65 C73-C75 C79-C84 C86-C91 C93 C95 C97 C117-C119 C122-C124 C132 C133	.1uF	0402	MURATA	GRM155R71C104KA88D	
8	2	C11 C25	10uF	TANT_A	AVX	TPSA106K010R0900	LOW ESR/OR EQUIVALENT
9	38	C28-C34 C36-C62 C66 C67 C70 C71	.1uF	0201	MURATA	GRM033R61A104KE15D	
10	16	C63 C147-C149 C158-C160 C171-C173 C182-C184 C193-C195	.01uF	0603	AVX	06035C103JAT2A	
11	0	C64 C72	.1uF	0402	MURATA	GRM155R71C104KA88D_DNI	DNI
12	2	C68 C69	.01uF	0201	TDK	C0603X5R1A103K030BA	
13	1	C76	.68uF	0402	MURATA	GRM155F50J684ZE01D	
14	3	C77 C120 C121	47pF	0402	MURATA	GRM1555C1H470FA01D	
15	1	C78	3900pF	0402	MURATA	GRM155R71H392KA01D	
16	2	C85 C92	100pF	0603	AVX CORP	06031A101GAT2A	
17	4	C94 C127 C138 C162	10uF	0603	TDK	C1608X5R1C106M080AB	
18	1	C96	2200pF	0402	MURATA	GRM155R71E222KA01D	
19	1	C98	10pF	0402	MURATA	GRM1555C1H100JA01D	
20	9	C99 C102 C105 C108 C112-C116	1uF	0402	TDK	C1005X5R1C105K050BC	
21	4	C100 C103 C129 C136	10uF	3528	KEMET	T520B106M016ATE100	LOW ESR/OR EQUIVALENT
22	0	C106 C107 C109-C111	.01uF	0402	MURATA	GRM155R71H103JA88D_DNI	DNI
23	1	C125	47uF	TANT_B	AVX	TPSB476K010R0250	
24	16	C126 C140 C145 C150 C151 C156 C161 C164 C169 C174 C175 C180 C185 C186 C191 C196	10uF	0805	MURATA	GRM21BR61E106KA73L	
25	4	C128 C135 C139 C163	22uF	0603	TDK CORP	C1608X5R0J226M080AC	
26	7	C130 C137 C141 C152 C165 C176 C187	0.1uF	0603	AVX	0603YC104KAT2A	
27	2	C131 C199	1000pF	0603	KEMET	C0603C102K3RACTU	
28	10	C142 C146 C153 C157 C166 C170 C177 C181 C188 C192	1uF	0603	TDK	C1608X7R1E105K080AB	
29	5	C143 C154 C167 C178 C189	47uF	1206	MURATA	GRM31CR61A476ME15L	

30	5	C144 C155 C168 C179 C190	33uF	TANT_B	AVX	TPSB336K016R0350	
31	4	D1-D4	LED GREEN	LED_1206	LITE ON	LTST-C150KGKT	
32	0	F1	FUSE 10A 63V FAST	1206	TE Connectivity	1206SFF200F/63-2_DNI	DNI
33	16	FB1-FB11 FB13-FB17	120 OHM @ 100MHz	1206	MURATA	BLM31PG121SN1L	
34	1	FB12	1k OHM @ 100MHz	1806	MURATA	BLM41PG102SN1L	
35	2	FLT1 FLT2	FILTER LC HIGH FREQ, .2uF	1806_BEAD_NFM41P	MURATA	NFM41PC204F1H3L	
36	5	J1-J5	CONN, SMA, JACK, 50 OHM, EDGE MNT	SMA_SMEL_DUAL_PSF-S01_250x215	Johnson Components	142-0711-821	
37	1	J6	CONN, SMA, JACK, 50 OHM, THVT	SMA_THVT_312x312	Johnson Components	142-0701-201	
38	1	J7	CON, SMVLT, HS, FIELD ARRAY, 400POS, MALE	CON_SMVT_40x10_SEAM_MTG	SAMTEC	SEAM-40-02.0-S-10-2-A-K-TR	
39	1	J8	CONN, USB MINI AB, SMT	CON_SMRT_USBMNE20_F	WURTH ELEKTRONIK	651305142821	
40	1	J9	CONN, JACK, PWR, MINI, R/A, TH	CON_RAPC722_JACK_THVT_3	SWITCHCRAFT	RAPC722X	
41	2	JP1 JP2	HDR, THVT, 2POS, .100	HDR_THVT_1x2_100_M	SAMTEC	HTSW-102-07-G-S	
42	4	L1 L3 L5 L7	7.5nH	ind_0603	COILCRAFT	0603CS-7N5XGEU	
43	4	L2 L4 L6 L8	18nH	ind_0603	COILCRAFT	0603CS-18NXGEU	
44	1	L9	1.5uH	2016	TOYO	1286AS-H-1R5M	
45	2	MT1 MT2	STANDOFF, FEMALE, 4-40 X 1 3/16", AL	MFG125_PLATED	RAF	1648-440-AL	STANDOFF
46	0	PP1	PROBE POINT	PROBE_POINT_30PAD	N/A	N/A	
47	1	Q1	CSD17313Q2	mosfet_8_2mmx2mm_0p65	Texas Instruments	CSD17313Q2	
48	4	R2 R14 R17 R25	4.99	0402	VISHAY/DALE	CRCW04024R99FKED	
49	0	R3 R10	127	0402	PANASONIC	ERJ-2RKF1270X_DNI	DNI
50	0	R4 R15 R19 R26	A/R	0402	DNI	DNI	DNI
51	4	R5 R9 R20 R23	53.6	0402	PANASONIC	ERA-2AEB53R6X	
52	9	R7 R21 R38 R39 R41 R64 R67 R119 R125	0	0402	PANASONIC	ERJ-2GE0R00X	
53	0	R11	365	0402	PANASONIC	ERJ-2RKF3650X_DNI	DNI
54	6	R12 R18 R22 R42 R49 R51	49.9	0402	PANASONIC	ERJ-2RKF49R9X	
55	4	R16 R24 R29 R33	20	0402	PANASONIC	ERJ-2RKF20R0X	
56	5	R27 R28 R30 R31 R74	1k	0402	PANASONIC	ERJ-2RKF1001X	
57	2	R32 R34	100	0201	PANASONIC	ERJ-1GEF1000C	
58	1	R36	620	0402	PANASONIC	ERJ-2GEJ621X	
59	1	R37	39k	0402	PANASONIC	ERJ-2GEJ393X	
60	0	R40	100	0402	PANASONIC	ERJ-2RKF1000X_DNI	DNI
61	4	R43 R44 R46 R47	240	0402	PANASONIC	ERJ-2RKF2400X	
62	0	R45 R54 R55 R57 R120-R124 R126 R131 R132	0	0402	PANASONIC	ERJ-2GE0R00X_DNI	DNI
63	2	R48 R58	100	0402	PANASONIC	ERJ-2RKF1000X	
64	3	R50 R52 R53	750	0603	VISHAY DALE	CRCW0603750RFKEA	
65	1	R56	2.1k	0402	PANASONIC	ERJ-2RKF2101X	
66	1	R59	48.7k	0402	PANASONIC	ERJ-2RKF4871X	
67	3	R60-R62	4.75k	0402	PANASONIC	ERJ-2RKF4751X	
68	0	R63 R82 R84 R85 R89 R91 R92 R99 R102 R104 R106 R109 R111 R113-R115 R117 R118	0	0603	PANASONIC	ERJ-3GEY0R00V_DNI	DNI
69	3	R65 R69 R70	22.1	0402	PANASONIC	ERJ-2RKF22R1X	
70	14	R68 R83 R86 R87 R90 R93 R94 R100 R101 R103 R107 R108 R110 R116	0	0603	PANASONIC	ERJ-3GEY0R00V	
71	1	R76	1.05M	0603	VISHAY DALE	CRCW06031M05FKEA	
72	1	R77	200k	0603	PANASONIC	ERJ-3EKF2003V	
73	5	R78 R88 R95 R105 R112	47.5k	0603	PANASONIC	ERJ-3EKF4752V	
74	1	R80	590k	0603	PANASONIC	ERJ-3EKF5903V	

75	2	R81 R98	162k	0603	PANASONIC	ERJ-3EKF1623V	
76	1	R96	301k	0603	PANASONIC	ERJ-3EKF3013V	
77	0	SJP1	JUMPER_L_0603_SMT	JUMPER_SMD_L_0603	DNI	DNI	
78	0	SJP2	SOLDER JUMPER, 0603	JUMPER_SMT_1x2_0603	DNI	DNI	SHUNT 1-2
79	0	SJP3	JUMPER_L_0603_SMT	JUMPER_SMD_L_0603	DNI	DNI	SHUNT 2-3
80	1	SW1	SWITCH, SMT, PUSHBUTTON, SPST	SW_SMVT_SPST_EVQPJX_2	PANASONIC	EVQ-PNF04M	
81	1	T1	JTX-2-10T+	XFMR_6_310X280_100	MINI-CIRCUITS	JTX-2-10T+	
82	1	T2	JTX-2-10T+	XFMR_6_310X280_100	MINI-CIRCUITS	JTX-2-10T+	
83	9	TP1 TP7-TP10 TP13-TP16	RED	TESTPOINT_62DRILL_THM	KEYSTONE	5000	
84	7	TP2-TP6 TP11 TP12	BLK	TESTPOINT_62DRILL_THM	KEYSTONE	5001	
85	1	U1	LMH3401	QFN_14_98x98_0P50MM	Texas Instruments	LMH3401IRMS	
86	1	U2	LMH6401	UQFN_16_118x118_0P5mm_RMZ	Texas Instruments	LMH6401IRMZ	
87	1	U3	ADS54J60	QFN_72_10MMX10MM_0P50MM_PWRPAD	Texas Instruments	ADS54J60IRGC	
88	1	U4	LMK04828	QFN_64_360X360_0P50MM_PWRPAD	Texas Instruments	LMK04828BISQ/NOPB	
89	1	U5	SN65LVDS4	QFN_10_81X61_RSE	Texas Instruments	SN65LVDS4RSET	
90	2	U6 U8	TXB0104	VQFN_14_138x138_0P50_RGY	Texas Instruments	TXB0104RGYR	
91	1	U7	FT245RL	SSOP_28_413x220_26	FTDI Chip	FT245RL-REEL	
92	1	U9	TPS63050	DSBGA_12_1P56MMx1P16MM_YFF	Texas Instruments	TPS63050YFF	
93	1	U10	TPS2400	DBV5	Texas Instruments	TPS2400DBVT	
94	2	U11 U15	TPS82085	uSIL_8_3MMx2p8MM_0p65mm	Texas Instruments	TPS82085SIL	
95	5	U12-U14 U16 U17	TPS7A8300	VQFN_20_138x138_0P50_RGR	Texas Instruments	TPS7A8300RGR	
96	1	Y1	122.88MHz	VCXO_6_CUSTOM	Crystek	CVHD-950-122.880	
97	1		BARE BOARD, TSW54J60		TTM	TSW54J60 REV B	
98	2		SCREW, 4-40 X 3/4", PHIL, SS		BUILDING FASTENERS	PMSSS 440 0075 PH	SCREW FOR STANDOFF
99	2	SEE NOTE 3	SHUNT-JUMPER-0603		PANASONIC	ERJ-3GEY0R00V	SHUNT FOR JUMPER

NOTES:

1. USE WATER SOLUBLE FLUX DURING BOARD ASSEMBLY.
2. ASSEMBLY MUST BE RoHS COMPLIANT AND LEAD FREE.
3. INSTALL 99:
 SP2 PINS 1-2
 SP3 PINS 2-3
4. DNI - DO NOT INSTALL THIS COMPONENT.

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