

# Bill of Materials

TI DESIGNS  
TIDA-00073

Item	Quantity	Reference	Note	Part	Foot Print	Part Number	Manufacturer	Tol	Volt
1	7	C1,C2,C3,C4,C5,C6,C7		33pF	402	GRM1555C1H330JZ01D	Murata	5%	50V
2	2	C8,C19		.1uF	402	GRM155R71C104KA88D	Murata	10%	16V
3	4	C9,C20,C28,C31		8.2pF	402	GJM1555C1H8R2CB01D	Murata	.25pF	50V
4	7	C10,C11,C12,C13,C14,C15,C16		1uF	402	GRM155R61A105KE15D	Murata	10%	10V
5	2	C17,C29		6.8pF	805	GRM1885C1H6R8CZ01D	Murata	.25pF	50V
6	3	C18,C30,C70	DNI	.1uF	402	GRM155R71C104KA88D	MURATA	10%	16V
7	3	C21,C22,C24		39pF	402	GRM1555C1H390JZ01D	Murata	5%	50V
8	2	C23,C26	DNI	1.5pF	402	UVK105CH1R5BW-F	Taiyo Yuden	.1pF	
9	1	C25	DNI	39pF	402	GRM1555C1H390JZ01D	Murata	5%	50V
10	2	C27,C32		.1uF	402	GRM155R71C104KA88D	Murata	10%	16V
11	4	C33,C43,C44,C54	DNI	6.8pF	603	GRM1885C1H6R8CZ01D	Murata	.25pF	50V
12	4	C34,C41,C45,C52		82nH	0603_WIDE	0603HP-82NXJLW	Coilcraft	5%	
13	4	C35,C42,C46,C53		150nH	0603_WIDE	0603HP-R15XJLW	Coilcraft	5%	
14	4	C36,C40,C49,C50		.1uF	402	GRM155R71C104KA88D	Murata	10%	16V
15	2	C37,C47		33nH	603	0603HP-33NXJLW	Coilcraft	5%	
16	2	C38,C51		56nH	603	0603HP-56NXJLW	Coilcraft	5%	
17	2	C39,C48		.01uF	402	GCM155R71H103KA55D	Murata	10%	16V
18	6	C55,C56,C58,C59,C60,C61		10nF	402	C0402C103K4RACTU	Kemet	10%	16V
19	2	C57,C62		10uF	402	GRM21BR71A106KE51L	Murata	20%	10V
20	2	C63,C73	DNI	.1uF	402	GRM155R61C104KA88D	MURATA	10%	
21	15	C64,C75,C76,C78,C79,C80,C82,C83,C84,C89,C90,C92,C94,C96,C104,		.1uF	402	GRM155R61C104KA88D	MURATA	10%	
21a	2	C155,C156	Installation instructions below	.1uF	402	GRM155R61C104KA88D	MURATA	10%	
21b	1	C69		100pF	402	GCM1555C1H101JZ13D	MURATA	5%	50V
21c	1	L31		2.7nH	402	0402CS-2N7XJL	Coilcraft	5%	
22	1	C65		.1uF	402	GRM155R61A104KA01D	Murata	10%	10V
23	2	C66,C67		3.3pF	402	GJM1555C1H3R3CB01D	MURATA		
24	1	C68		10nF	0603_WIDE	GRM155R71E103KA01D	Murata	10%	25V
25	10	C99,C117,C137,C139		10uF	1206	GRM31CR61E106KA12L	MURATA	10%	16V
26	1	C85		270pF	402	GRM1555C1H271JA01D	Murata	5%	50V
27	1	C86		.015uF	402	GRM155R71C153KA01D	Murata	5%	16V
28	2	C87,C88	DNI	.1uF	402	GRM155R71C104KA88D	MURATA	10%	16V
29	2	C97,C98		.01uF	402	GRM155R71H103KA88D	MURATA		
30	1	C101	DNI	.01uF	402	GRM155R71H103KA88D	MURATA		
31	1	C103		10uF	805	GRM21BR61C106KE15L	MURATA	10%	16V
32	8	C115,C116,C140		.1uF	402	MURATA	MURATA	10%	
33	1	C109	LOW ESR	10uF	3528	TPSB106K016R0800	AVX	10%	16V
34	1	C110	LOW ESR	4.7uF	3528	T496B475M010AT	KEMET	20%	10V
35	4	C112,C115,C116,C140		.1uF	402	MURATA	MURATA	10%	16V
36	2	C113,C114		47pF	402	04025A470JAT2A	AVX		

1	7	C1,C2,C3,C4,C5,C6,C7		33pF	402	GRM1555C1H330JZ01D	Murata	5%	50V
37	1	C118		47uF	tant_b	T491B476M010AT	Kemet	20%	10V
38	4	C119,C122,C127,C131		10uF	805	GRM21BR71A106KE51L	Murata	20%	10V
39	1	C120		1uF	402	C1005X5R1C105K	TDK	10%	16V
40	4	C121,C125,C129,C132		1uF	603	ECJ-1V41E105M	Panasonic	20%	25V
41	3	C123,C126,C130		.1uF	402	ECJ-0EB1C104K	Panasonic	10%	16V
42	1	C124		10nF	402	C1005X7R1E103K	TDK	10%	25V
43	1	C128		.01uF	402	C0402C103J3RACTU	KEMET	10%	25V
44	1	C136		10uF	805	GRM21BR70J106KE76L	MURATA	10%	6.3V
45	1	C138		47uF	TANT_B	T494B476M010AS	Kemet	20%	10V
46	2	C141,C143		39pF	201	250R05L390GV4T	Johanson Technology Inc	2%	25V
47	2	C142,C144		.033uF	805	EMK212SD333JD-T	Taiyo Yuden	5%	16V
48	4	C147,C148,C149,C150	DNI	6.8pF	402	GRM1555C1H6R8DZ01D	MURATA	.5pF	50V
49	1	C154		100pF	603	06031A101GAT2A	AVX CORP		
50	2	C165,C166		150pF	402	ECJ-0EB1E151K	Panasonic	10%	25V
51	2	C167,C168		22pF	402	GRM1555C1H220JZ01D	MURATA	5%	50V
52	3	D1,D2,D3		LED GREEN	LED_0805	LNJ306G5UUX	PANASONIC		
53	1	D4		LED AMBER	LED_0805	LNJ406K54RX	PANASONIC		
54	1	D5		GREEN	LED_0805	LTST-C170KGKT	LITE ON		
55	1	D6		LED RED	LED_0805	LTST-C170KRKT	LITE ON		
56	1	D7		Blue	LED_0805	LTST-C170TBKT	Lite On		
57	7	2,L32		68 OHM @ 100MHZ	1206	EXC-ML32A680U	Panasonic		
58	1	FB7		120 OHM @ 100MHz	1206	BLM31PG121SN1L	MURATA		
59	2	FB9,FB11		1K	1810	FBMH4525HM102NT	Taiyo Yuden		
60	1	FB10		27uF	1206_BEAD_NFM31P	NFM31PC276BOJ3	MURATA		
61	3	JP1,JP2,JP3	(SHUNT 1-2)	HEADER_1x3_100_430L	HDR_THVT_1X3_100_M	22-28-4030	Molex		
62	1	JP4	(SHUNT 2-3)	HEADER_1x3_100_430L	HDR_THVT_1X3_100_M	22-28-4030	Molex		
63	1	JP9	SHUNT 1-2	HEADER, 3POS	HDR_THVT_1x3_100_M	HTSW-103-07-G-S	SAMTEC		
64	1	JP12		HDR, THVT, 2POS	HDR_THVT_1X2_100_M	HTSW-102-08-G-S	SAMTEC		
65	1	J1		HI-SPEED SOCKET, SMT, VE	CON_SMVT_120POS_Q	QTH-060-01-F-D-A-RT1	SAMTEC		
66	1	J2		SMA	SMA_THRT_276X276	132136	AMPHENOL CONNEX		
67	2	J3,J12		SMA_END JACK_RND	SMA_THVT_320X320	142-0701-201	Johnson Components		
68	1	J4		SMA_END JACK_RND	SMA_THRT_276X276	132136	AMPHENOL CONNEX		
69	4	J6,J7,J8,J9		SMA THRU HOLE R/A	SMA_THRT_276X276	132136	AMPHENOL CONNEX		
70	2	J10,J11		SMP_PCB_SMT	sm_p_b120	853050232	Molex Inc.		
71	1	J13		HTSW-105-07-G-D	HDR_THVT_2x5_100_M	HTSW-105-07-G-D	SAMTEC		
72	1	J14		USB_SUPER-MINI_AB	CON_SMRT_USBMNE2	MNE20-5G5P10	ACON		
73	1	J15		CONN JACK PWR	CON_RAPC722_JACK_	RAPC722	Switchcraft		
74	1	J16		BLK	JACK_THVT_BANANA_	SPC15354	SPC TECHNOLOGY		
75	1	J17		RED	JACK_THVT_BANANA_	SPC15363	SPC TECHNOLOGY		
76	1	J18		HTSW-106-07-G-D	HDR_THVT_1x6_100_M	HTSW-106-07-G-S	SAMTEC		
77	2	J19,J21		HTSW-105-07-G-D	HDR_THVT_1x8_100_M	HTSW-108-07-G-S	SAMTEC		
78	1	J22		HTSW-104-07-G-D	HDR_THVT_1x4_100_M	HTSW-104-07-G-S	SAMTEC		
79	4	L1,L4,L10,L13		120nH	805	0805CS-121XJLC	Coilcraft	5%	
80	20	L14,R15,R20,R27,R52,R53		0	402	RMCF0402ZTOR00	Stackpole Electronics Inc	5%	
81	2	L3,L12		180nH	805	0603HP-R18XJLW	Coilcraft	5%	
82	2	L6,L9		10nH	402	0402CS-10NXJLW	Coilcraft	2%	
83	4	L15,L20,L23,L28		8.2pF	0603_WIDE	GRM1885C1H8R2DZ01D	Murata	.5pF	50V
84	4	L16,L21,L24,L29		3.9pF	0603_WIDE	GRM1885C1H3R9CZ01D	Murata	.25pF	
85	4	L17,L22,L25,L30		1uH	1008	1008CS-102XJL	Coilcraft	5%	
86	2	L18,L26		22pF	603	GRM1885C1H220JA01D	Murata	5%	
87	2	L19,L27		10pF	603	GRM1885C1H100JA01D	Murata	5%	

1	7	C1,C2,C3,C4,C5,C6,C7		33pF	402	GRM1555C1H330JZ01D	Murata	5%	50V
88	1	L33		40nH	402	0402CS-40NXJLW	Coilcraft	2%	
89	1	Q1		FDC3616N	SSOT6_FLMP	FDC3616N	Fairchild Semiconductor		
90	6	R1,R4,R13,R16,R24,R30		0	603	RMCF0603ZT0R00	Stackpole Electronics Inc	5%	
91	2	R5,R11		681	402	RMCF0402FT681R	Stackpole Electronics Inc	1%	
92	2	R6,R12	DNI	499	402	RC0402FR-07499RL	Yageo	1%	
93	1	R7		1.5K	402	RC0402FR-071K5L	Yageo	1%	
94	8	8,R119,R120		0	402	RMCF0402ZT0R00	Stackpole Electronics Inc	5%	
95	8	,R108,R110	DNI	0	402	RMCF0402ZT0R00	Stackpole Electronics Inc	5%	
96	1	R10	DNI	1.2K	402	RC0402FR-071K2L	Yageo	1%	
97	2	R17,R23	DNI	0	603	RMCF0603ZT0R00	Stackpole Electronics Inc	5%	
98	4	R18,R22,R25,R29		49.9	402	RMCF0402FT49R9	Stackpole Electronics Inc	5%	
99	4	R19,R21,R26,R28		56.2	402	RMCF0402FT56R2	Stackpole Electronics Inc	1%	
100	7	,R79		10K	402	RMCF 1/16S 10K 1% R	Stackpole Electronics Inc	1%	
101	1	R35		10	402	RMCF 1/16S 10 1% R	Stackpole Electronics Inc	1%	
102	4	R37,R41,R42,R45		4.99	402	CRCW04024R99FKED	VISHAY/DALE		
103	1	R38		0 ohm	402	RMCF 1/16S 0 R	Stackpole Electronics Inc	5%	
104	4	R39,R40,R43,R44	DNI	49.9	402	ERJ-2RKF49R9X	PANASONIC		
105	1	R55		680	402	ERJ-2RKF6800X	PANASONIC	1%	
106	1	R56	DNI	10K	402	ERJ-2RKF1002X_DNI	PANASONIC	1%	
107	2	R59,R60		1K	402	RMCF0402FT1K00	Stackpole Electronics Inc	1%	
108	1	R61		18	402	ERJ-2RKF18R0X	PANASONIC		
109	2	R62,R63		270	402	ERJ-2RKF2700X	PANASONIC	1%	
110	2	R64,R65		120	402	ERJ-2RKF1200X	PANASONIC		
111	2	R67,R97	DNI	82	603	CRCW060382R0FKEA	DALE	1%	
112	2	R68,R95	DNI	130	603	CRCW0603130RFKEA	DALE	1%	
113	3	R70,R72,R73		750	603	CRCW0603750RFKEA	DALE		
114	1	R75		1K	402	ERJ-2RKF1001X	Panasonic	1%	
115	3	R76,R77,R78		10K	402	ERJ-2RKF1002X	PANASONIC	1%	
116	3	R80,R83,R85		3.01K	402	ERJ-2RKF3011X	PANASONIC	5%	1/10W
117	1	R82		0	603	ERJ-3GEY0R00V	Panasonic	5%	
118	1	R84		4.7K	402	ERJ-2RKF4701X	Panasonic	5%	
119	1	R86	DNI	0	1206	CRCW12060000Z0EA	Vishay/Dale	5%	
120	1	R87		10K	603	ERJ-3EKF1002V	Panasonic	1%	
121	1	R88		53.6K	402	RMCF0402FT53K6	Stackpole Electronics Inc	1%	
122	2	R89,R91		10K	402	ERJ-2GEJ103X	Panasonic	1%	
123	1	R90		31.6K	402	RMCF0402FT31K6	Stackpole Electronics Inc	1%	
124	4	R93,R105,R107,R109		100nH	402	0402CS-R10XJLW	Coilcraft	5%	
125	1	R94		100K	603	ERJ-3GEYJ104V	Panasonic	1%	1/10W
126	1	R101	DNI	0	603	ERJ-3GEY0R00V_DNI	PANASONIC		
127	1	R123		49.9	402	CRCW040249R9FKED	Vishay/Dale	1%	
128	1	R274		100	603	ERJ-3EKF1000V	PANASONIC		
129	1	R275		100	402	ERJ-2RKF1000X	PANASONIC	1%	
130	1	SH1	TI SUPPLIED	RF SHIELD	MFG053_PTH		LEADER TECH		
131	9	7,SH8,SH9,SH10		RF SHIELD	MFG053_PTH		LEADER TECH		
132	1	SJP3	SHUNT 2-3	Jumper_L_0402_SMT	SMD_JUMPER_L_0402	NP PART-SMD PADS	NP PART		
133	1	SW1		SW PUSHBUTTON	SW_RESET_PTS635	PTS635SL43	ITT Industries/C&K Div		
134	1	TP1		Testloop_White	testpoint_62dia	5012	KEYSTONE		
135	2	TP2,TP4		Test Point White	TESTPOINT_62DIA	5002	Keystone		
136	1	TP3		Test Point Black	TESTPOINT_62DIA	5001	Keystone		
137	4	TP5,TP6,TP9,TP10		Testloop_Red	testpoint_62dia	5005	Keystone		
138	1	TP7		Testloop_Red	testpoint_62dia	5010	Keystone		

1	7	C1,C2,C3,C4,C5,C6,C7		33pF	402	GRM1555C1H330JZ01D	Murata	5%	50V
139	5	TP8,TP11,TP12,TP13,TP14		Testloop_Black	testpoint_62dia	5011	KEYSTONE		
140	2	T1,T2	DNI	WBC4-1TL	XFMR_WBC	WBC4-1TL	Coilcraft		
141	1	T3		WBC1-1TL	XFMR_WBC	WBC1-1TL	Coilcraft		
142	1	T4	DNI	WBC1-1TL	XFMR_WBC	WBC1-1TL	Coilcraft		
143	1	T5		WBC1-1TL	XFMR_WBC	WBC1-1TLB	Coilcraft		
144	1	U1		SKY73022/MAX19985	QFN36_P5MM	SKY73022-11	Skyworks		
145	1	U2		LMH6521	QFN32_RGJ_RHB_RTV	LMH6521SQ	NATIONAL SEMI		
146	1	U3		ADS4249	QFN64	ADS4249IRGCT	Texas Instruments		
147	1	U5		LMK04803B	QFN_64_360X360_0P50	LMK04803BISQ	NATIONAL SEMI		
148	1	U6		EPM3064A	TQFP_100_551x551_20	EPM3064ATC100-7N	Altera		
149	1	U7		LP2985-50	SOT_5_120X69_37	LP2985-50DBVR	Texas Instruments		
150	1	U8		FT245RL	ssop_28_413x220_26	FT245RL	FTDI Chip		
151	1	U9		25AA512	SO_8_210X212_50	25AA512-I/SM	MICROCHIP TECHNOLOGY		
152	2	U10,U15		TPS7A8001DRB	SON_8_124x124_pwrpa	TPS7A8001DRB	Texas Instruments		
153	1	U11		TPS2400	DBV5	TPS2400DBVT	Texas Instruments		
154	1	U14		TPS76718Q	HTSSOP_20_260x177_2	TPS76718QPWP	Texas Instruments		
155	1	Y2	DNI	80.00MHz	VCXO_4_SM_560x360	CVHD-950-80.000	Crystek		
156	1	Y3		20MHz	OSC_4_SM_209x138	ECS-200-20-30B-TR	ECS		
157	1	Y4	DNI	40.00MHz	VCXO_6_CUSTOM	357LB3I040M0000	CTS		
158	4	_SCREW3,Z_SCREW4	SCREW FOR STANDOFF	SCREW PANHEAD 4-40 x 3/8		PMS 440 0038 PH	Building Fasteners		
159	4	H3,Z_SH-H4	SHUNT FOR HEADER	HEADER, 3POS	HDR_THVT_1X3_100	MJ-5.97-G or equivalent	Keltron		
160	1	Z_SH-H8	OR EQUIVALENT	SHUNT- HEADER		MJ-5.97-G	KELTRON		
161	1	Z_SH-J4	SHUNT FOR JUMPER	SHUNT-JUMPER-0402		ERJ-2GE0R00X	PANASONIC		
162	1	Z_SH-J5	OR EQUIVALENT	SHUNT-HEADER		MJ-5.97-G	KELTRON		
163	4	OFF2,Z_STANDOFF3,Z_S	STANDOFF	STANDOFF ALUM HEX 4-40 x .500		2203	Keystone		

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