

# Bill of Materials

TI DESIGNS  
TIDA-00072

Item	Quantity	Reference	Note	Part	Foot Print	Part Number	Manufacturer	Tol	Volt	Rating	DCR	Comments
1	4	C1,C2,C3,C4		.01uF	201	GRM033R71A103KA01D	Murata	10%	10V			
		C5,C6,C7,C8,C9,C10,C11,C13,C14,C15,C25,C26,C27,C28,C38,C41,C42,C43,C49										
2	19			.22uF	201	LMK063BJ224MP-F	Taiyo Yuden	20%	10V			
3	5	C22,C30,C40,C53,C189		10uF	603	LMK107BJ106MALTD	Taiyo Yuden	20%	10V			
4	11	C34,C37,C97,C112,C113,C119,C153,C253,C254,C264,C267		.1uF	402	ECJ-0EB1C104K	Panasonic	10%	16V			
5	7	C35,C47,C50,C261,C284,C288,C289		1000pF	402	ECJ-0EB1E102K	Panasonic	10%	25V			
6	2	C36,C48		.1uF	201	LMK063BJ104KP-F	Taiyo Yuden	10%	10V			
7	22	C52,C60,C77,C78,C80,C81,C82,C83,C84,C85,C86,C87,C88,C89,C90,C99,C102,C117,C135,C138,C139,C303		.1uF	402	GRM155R61C104KA88D	MURATA	10%				
8	1	C59		10uF	805	GRM21BR61C106KE15L	MURATA	10%	16V			
9	9	C63,C72,C128,C178,C179,C180,C181,C298,C312		10uF	1206	GRM31CR61E106KA12L	MURATA	10%	16V			
10	3	C64,C110,C285		100pF	402	GRM1555C1H101JZ01B	MURATA	5%	50V			
11	1	C65		.1uF	402	GRM155R71C104KA88D	MURATA	10%	16V			
12	3	C75,C215,C307		.01uF	402	C0402C103J3RACTU	KEMET	10%	25V			
13	1	C76		1uF	603	0603YC105KAT2A	AVX	10%				
14	4	C79,C100,C101,C301		.1uF	201	GRM033R61A104KE15D	MURATA	10%				
15	2	C95,C96		47pF	402	GRM1555C1H470JZ01D	Murata	5%	50V			
16	1	C107		8.2pF	402	04025A8R2CAT2A	AVX	5%	50V			
17	10	C111,C114,C115,C120,C164,C170,C174,C238,C244,C246		1uF	603	ECJ-1V41E105M	Panasonic	20%	25V			
18	8	C121,C122,C123,C124,C131,C132,C158,C159	DNI	.5pF	402	GRM1555C1HR50CZ01D	Murata	.25pF	50V			
19	4	C125,C126,C129,C130	DNI	1.0pF	402	GJM1555C1H1R0CB01D	Murata					
20	1	C127		1500pF	402	04025C152JAT2A	AVX	10%	50V			
21	10	45,C146,C147,C148,C149,		10uF	805	GRM21BR71A106KE51L	Murata	10%	10V			
22	4	C150,C171,C172,C173		10uF	805	GRM21BR71A106KE51L	Murata	20%	10V			
23	1	C152		47uF	tant_b	T491B476M010AT	Kemet	20%	10V			
24	1	C154		1uF	402	C1005X5R1C105K	TDK	10%	16V			
25	7	42,C245,C247		10nF	402	C1005X7R1E103K	TDK	10%	25V			
26	2	C156,C168		.2pF	402	500R07S0R2BV4T	Johanson Technology Inc	.1pF	50V			
27	1	C157	DNI	0	402	RMCF0402ZTOR00	Stackpole Electronics Inc	5%	50V			
28	2	C162,C243		10nF	402	C0402C103K3RACTU	Panasonic	10%	25V			
29	1	C163		2.2uF	1206	ECJ-HVB1A225K	Panasonic	10%	10V			
30	2	C165,C167		22uF	1206	GRM31CR60J226KE19L	Murata	10%	6.3V			
31	1	C166		33pF	402	250R07S330GV4T	Johansen Technology	2%	25V			
32	2	C169,C240		2.2uF	603	ECJ-1VB1A225K	Panasonic	10%	10V			
33	2	C175,C287		1000pF	402	04025C102JAT2A	AVX	5%	50V			
34	2	C176,C292		1uF	603	GRM188R61C105KA93D	MURATA	10%	16V			
35	2	C177,C300	DNI	.1uF	402	GRM155R71C104KA88D	MURATA	10%	16V			
36	2	C182,C250		.1uF	402	GRM155R61C104KA88D	MURATA	10%				
37	11	83,C183,R184,R185,R186,	DNI	0	402	RMCF0402ZTOR00	Stackpole Electronics Inc	5%				
38	8	11,C213,C231,C232		3.3pF	402	GJM1555C1H3R3CB01D	MURATA	.25pF	50V			

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39	8	22,C223,C230,C283	DNI	3.3pF	402	GJM1555C1H3R3CB01D	MURATA	.25pF	50V			
40	2	C187,C208	DNI	100pF	402	GRM1555C1H101JZ01D	Murata	5%	50V			
41	32	95,C196,C197,C198,C199,	DNI	CAP NP_1	402			.25pF	50V			
42	8	35,C236,C239,C241	DNI	1uF	402	ECJ-0EB1A105M	Panasonic	10%	25V			
43	2	C248,C293		22pF	402	500R07S220GV4T	JOHANSON TECH	2%	50V			
44	4	C249,C257,C294,C297		20pF	402	GRM1555C1H200JZ01B	MURATA	5%	50V			
45	2	C251,C295		.1uF	402	GRM155R61C104KA88D	MURATA	10%	16V			
46	4	C252,C255,C265,C266		3.3pF	402	GRM1555C1H3R3CZ01D	Murata					
47	1	C256		2.2uF	805	TMK212BJ225KG-T	TAIYO YUDEN	10%				
48	2	C258,C268		6.8pF	402	GJM1555C1H6R8CB01D	Murata	.25pF	50V			
49	4	C259,C260,C263,C269		47pF	402	C1005C0G1H470G	TDK	2%	50V			
50	4	C262,C286,C290,C291		4.7uF	tant_a	TAJA475K020R	AVX	10%	20V			
51	1	C296		2.2uF	805	TMK212BJ225KG-T	TAIYO YUDEN	10%				
52	1	C299		22pF	402	500R07S220GV4T	JOHANSON TECH	2%				
53	1	C302		.01uF	402	0402YC103JAT2A	AVX	5%	16V			
54	2	C304,C305		10uF	805	GRM21BR70J106KE76L	MURATA	10%	6.3V			
55	1	C306		2.2uF	TANT_A	TAJA225K010RNJ	AVX	10%				
56	1	C308	LOW ESR	4.7uF	3528	T496B475M010AT	KEMET	20%	10V			
57	1	C309	LOW ESR	10uF	3528	TPSB106K020R1000	AVX	10%	20V			
58	3	D1,D5,D7		LED GREEN	LED_0805	LNJ306G5UUX	PANASONIC					
59	1	D2		Blue	LED_0805	LTST-C170TBKT	Lite On					
60	1	D3		LED AMBER	LED_0805	LNJ406K54RX	PANASONIC					
61	1	FB1		1.5K @ 100MHz	603	BLM18HE152SN1D	Murata				.500 Ohm	
62	1	FB7		1K OHM @ 100MHz	1806	BLM41PG102SN1L	MURATA					
63	1	FB8	OR EQUIVALENT	31 OHM @ 100MHz	805	H10805Q310R-10	STEWART					
64	5	20		68 OHM @ 100MHz	1206	EXC-ML32A680U	Panasonic					
65	2	FB21,FB23	500mA	600 OHMS @ 100MHz	603	BLM18AG601SN1D	MURATA					
66	12	35,FB36,FB37,FB38,FB39,		1K	1810	FBMH4525HM102NT	Taiyo Yuden					
67	1	FB26		120 OHM @ 100MHz	1206	BLM31PG121SN1L	MURATA					
68	3	FB28,FB30,FB31		27uF	1206_BEAD_NFM31P	NFM31PC276B0J3	MURATA					
69	1	F1	DNI	1 AMP FUSE	NANO_SMF	0154001_DNI	LITTELFUSE					
70	1	JP2	(SHUNT 1-2)	Jumper_1x3_100_430L	HDR_THVT_1x3_100_M	HMTSW-103-07-G-S-.230	SAMTEC					
71	5	JP3,JP12,JP13,JP14,JP15	(SHUNT 2-3)	Jumper_1x3_100_430L	HDR_THVT_1x3_100_M	HMTSW-103-07-G-S-.230	SAMTEC					
72	1	JP4		HEADER, 3POS	HDR_THVT_1X3_100_M	HMTSW-103-07-G-S	SAMTEC					
73	10	J19,J22		SMA THRU HOLE R/A	SMA_THRT_276X276	132136	AMPHENOL CONNEX					
74	2	J6,J8		MM8430_2600RA1	CON_SMVT_MURATA	MM8430-2600RA1	MURATA					
75	1	J10		SMP PCB SMT	smp_b120	853050232	Molex Inc.					
76	1	J13		HEADER, SMT, 180POS, HS	CON_SMVT_180POS_G	QTH-090-01-L-D-A	SAMTEC					
77	1	J14		USB_MINI_AB	CON_SMRT_USBMNE2	DX3R005HN2E700	JAE					
78	1	J15		HTSW-105-07-G-D	HDR_THVT_2x5_100_M	HTSW-105-07-G-D	SAMTEC					
79	1	J18		CONN JACK PWR	CON_RAPC722_JACK	RAPC722	Switchcraft					
80	2	L5,L6		5.6nH	402	LL1005-FHL5N6S	TOKO	1%				
81	3	L7,L25,L26		2.2uH	LPS3015	LPS3015-222ML	Coilcraft					
82	8	48,L49		33nH	402	0402CS-33NXJB	COILCRAFT	2%				
83	1	Q1		FDC3616N	SSOT6_FLMP	FDC3616N	Fairchild Semiconductor					
84	2	R5,R15		100	201	CRCW0201100RFKED	Vishay/Dale	1%		1/20W		
85	6	134		0	402	ERJ-2GE0R00X	Panasonic					
86	13	9,R111,R131,R135,R136,R	DNI	0	402	ERJ-2GE0R00X	PANASONIC					
87	3	R8,R9,R11		750	603	CRCW0603750RFKEA	DALE					
88	2	R16,R17		4.75K	402	ERJ-2RKF4751X	PANASONIC					
89	8	01,R102,R112		49.9	201	CRCW020149R9FKED	Stackpole Electronics Inc	1%				
90	1	R40		3.01K	402	ERJ-2RKF3011X	PANASONIC	5%	1/10W			
91	3	R43,R46,R122		1K	402	ERJ-2RKF1001X	Panasonic	1%				
92	1	R44		1.27K	402	ERJ-2RKF1271X	Panasonic	1%				
93	1	R45		10	402	CRCW040210R0FKED	Vishay/Dale	1%				
94	6	R48,R49,R50,R53,R58,R59		30.1	201	ERJ-1GEF30R1C	PANASONIC	1%				
95	4	R51,R52,R60,R92		240	201	ERJ-1GEF2400C	PANASONIC					
96	1	R54		22.1	402	ERJ-2RKF22R1X	PANASONIC					
97	4	R55,R56,R57,R91	DNI	240	201	ERJ-1GEF2400C	PANASONIC					

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98	2	R61,R62		DNI	1K	402	ERJ-2RKF1001X	PANASONIC				
99	1	R63			18	201	ERJ-1GEF18R0C	PANASONIC				
100	3	R70,R72,R90		DNI	10K	402	ERJ-2RKF1002X	PANASONIC	1%			
101	6	94			0	603	RMCF0603ZTOR00	Stackpole Electronics Inc	5%			
102	1	R89			15K	402	ERJ-2RKF1502X	PANASONIC	1%			
103	2	R95,R151			150K	402	RC0402FR-07150KL	Yageo	1%	1/16W		
104	2	R104,R148			750K	402	CRCW0402750KJNED	Vishay/Dale	1%	1/16W		
105	2	R105,R130			270	201	ERJ-1GEF2700C	PANASONIC	1%			
106	3	R107,R113,R120			4.75K	402	ERJ-2RKF4751X	PANASONIC	1%			
107	4	R108,R114,R175,R177			0	402	ERJ-2GE0R00X	Panasonic	5%			
108	12	85,R286,R287,R288,R289,		DNI	0	603	RMCF0603ZTOR00	Stackpole Electronics Inc	5%			
109	1	R117			0	603	ERJ-3GEY0R00V	Panasonic	5%			
110	3	R121,R125,R129			10K	402	ERJ-2RKF1002X	PANASONIC	1%			
111	1	R123			3.3K	402	ERJ-2RKF3301X	PANASONIC				
112	1	R124			1.69K	402	ERJ-2RKF1691X	PANASONIC				
113	3	R126,R127,R145		DNI	0	805	RMCF0805ZTOR00	Stackpole Electronics Inc	5%	1/8W		
114	2	R128,R146			0	805	RMCF0805ZTOR00	Stackpole Electronics Inc	5%	1/8W		
115	1	R133		DNI	0	402	ERJ-2GE0R00X	Panasonic	5%			
116	1	R143			10K	603	ERJ-3EKF1002V	Panasonic	1%	1/10W		
117	1	R150			191K	402	CRCW0402191KFKED	Vishay/Dale	1%	1/16W		
118	1	R153			182K	402	CRCW0402182KFKED	Vishay/Dale	1%	1/16W		
119	1	R157			31.6K	402	RMCF0402FT31K6	Stackpole Electronics Inc	1%	1/16W		
120	33	69,R173,R174,R178,R192,			0	402	RMCF0402ZTOR00	Stackpole Electronics Inc	5%			
121	2	R159,R171			10K	402	ERJ-2GEJ103X	Panasonic	1%	1/16W		
122	1	R172		DNI	0	1206	CRCW12060000Z0EA	Vishay/Dale	5%	1/4W		
123	1	R176			53.6K	402	RMCF0402FT53K6	Stackpole Electronics Inc	1%	1/16W		
124	3	R189,R190,R191			17.4	402	ERJ-2RKF17R4X	Panasonic	1%			
125	8	02,R203,R204,R205		DNI	49.9	402	RMCF0402FT49R9	Stackpole Electronics Inc	1%			
126	8	27,R228,R229,R230			49.9	402	RMCF0402FT49R9	Stackpole Electronics Inc	1%			
127	8	17,R219,R222,R224		DNI	2.74K	402	ERJ-2RKF2741X	Panasonic	1%			
128	2	R221,R257			174K	402	ERJ-2RKF1743X	Panasonic	1%			
129	2	R275,R276			0	201	ERJ-1GE0R00C	PANASONIC				
130	2	R313,R314			49.9	402	ERJ-2RKF49R9X	Panasonic	1%			
131	2	R315,R316			330K	402	ERJ-2RKF3303X	Panasonic	1%			
132	1	SH1			RF SHIELD	MFG053_PTH		LEADER TECH				
134	1	SJP2		SHUNT 2-3	JUMPER_L_0402_SMT	SMD_JUMPER_L_0402	DNI	DNI				
135	1	SJP3		SHUNT 1-2	SMT_JUMPER	JUMPER_SMD_L_0603	NO PART-SMD PADS	NO PART-SMD PADS				
136	1	SJP4		SHUNT 1-2	SOLDER_JUMPER_0402	SMD_JUMPER_L_0402	NO PART-SMD PADS	NO PART-SMD PADS				
137	1	SJP5		SHUNT 1-2	SMD_JUMPER_3POS	SMD_JUMPER_L_0402	NO PART-SMD PADS	NO PART-SMD PADS				
138	4	SJP9,SJP10,SJP11,SJP12		(SHUNT 1-2)	SMT_Jumper_1x3	smd_bridge_0402	NO PART-SMD PADS	NO PART-SMD PADS				
139	1	SW1			SW RESET	SW_SMVT_RESET	KT11P3JM	C&K				
140	1	SW2			USB RESET	SW_SMVT_RESET	KT11P3JM	C&K				
141	6	3			Testloop_Black	testpoint_62dia	5011	KEYSTONE				
142	1	TP2			RED	testpoint_62dia	5010	KEYSTONE				
143	1	TP5			Testloop_White	testpoint_62dia	5012	KEYSTONE				
144	1	TP12			Testloop_Red	testpoint_62dia	5010	Keystone				
145	15	9,TP23,TP24,TP25,TP27,T			Testloop_Red	testpoint_62dia	5005	Keystone				
146	4	TP31,TP32,TP33,TP34			Testpad	TP_SMVT_040_RND						
147	4	T1,T2,T3,T4			TC1-1-13M	XFMR_MINICIRCUITS_A	TC1-1-13M+	Mini Circuits				
148	1	U1			DAC3484	PWQFN88_p6mm	DAC3484IRKDT	Texas Instruments				
149	1	U2			TPS62290	SON_DRV_6	TPS62290DRVT	Texas Instruments				
150	1	U3			FT245RL	ssop_28_413x220_26	FT245RL	FTDI Chip				
151	1	U4			EPM3032A	TQFP_44_39X39_32	EPM3032ATC44-10	ALTERA				
152	1	U5			25AA512	SO_8_210X212_50	25AA512-I/SM	MICROCHIP TECHNOLOGY				
153	1	U6			LP2985-50	SOT_5_120X69_37	LP2985-50DBVR	Texas Instruments				
154	2	U7,U19			PE43701	QFN_32_197X197_20_P	PE43701	PEREGRINE SEMI				
155	2	U8,U25			MGA-30689	SOT_89_4321	MGA-30689	AVAGO TECHNOLOGIES				
156	1	U11			TPS62420	SON_DRC_10	TPS62420DRCR	Texas Instruments				
157	1	U12			TPS79633	SOT_223_6_TG	TPS79633DCQ	Texas Instruments				

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158	2	U13,U22		TPS71701	SC70_DCK_G5	TPS71701DCKR	Texas Instruments					
159	2	U14,U18		TPS7A8001DRB	SON_8_124x124_pwrpa	TPS7A8001DRB	Texas Instruments					
160	1	U15		TPS79633	SOT_223_6_TG	TPS79633DCQ	Texas Instruments					
161	1	U16		LMK04806B	QFN_64_360X360_0P50	LMK04806BISQ	NATIONAL SEMI					
162	1	U21		TPS2400	DBV5	TPS2400DBVT	Texas Instruments					
163	2	U23,U24		TRF3705	QFN_24_163x163_0p50	TRF3705	Texas Instruments					
164	1	U26		CDCV304PW	TSSOP_8_177x122_26	CDCV304PW	Texas Instruments					
165	1	Y1		10.0000MHz	OSC_6_SM_295X205_1	FVXO-HC73BR-10.00000	FOX ELECTRONICS					
166	4	_SCREW3,Z_SCREW4	SCREW FOR STANDOFF	SCREW PANHEAD 4-40 x 3/8		PMS 440 0038 PH	Building Fasteners					
167	6	H13,Z_SH-H14,Z_SH-	SHUNT FOR HEADER	SHUNT-HEADER		MJ-5.97-G	Keltron					
168	1	Z_SH-H8	SHUNT FOR HEADER	0 Ohm	402	ERJ-2GE0R00X	Panasonic					
169	3	H11	SHUNT FOR HEADER	0 Ohm		ERJ-2GE0R00X	Panasonic					
170	1	Z_SH-H21		SHUNT-JUMPER-0603		ERJ-3GE0R00V	PANASONIC					
171	1	Z_SH-J6	SHUNT 1-2	SHUNT-HEADER		MJ-5.97-G	KELTRON					
172	1	Z_SH-J7	SHUNT 2-3	SHUNT-0 ohm		RMCF0402ZT0R00	Stackpole Electronics Inc					
173	2	Z_SH-J27,Z_SH-J30	SHUNT FOR JUMPER	SHUNT-JUMPER-0402		ERJ-2GE0R00X	PANASONIC					
174	4	OFF2,Z_STANDOFF3,Z_S	STANDOFF	STANDOFF ALUM HEX 4-40 x .750		2204	Keystone					

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