

Bill of Materials

TI DESIGNS

TIDA-01240

Item	Quantity	Reference	Note	Part	Part Number	Manufacturer	Foot Print
1	9	C1,C54,C60,C313,C385,C427,C440,C441,C447		0.01uF	GRM155R71H103KA88D	MURATA	402
2	0	C2,C3,C37,C44,C45,C366,C449,C450	DNI	.1uF	GRM033R61A104KE15D	MURATA	201
		C5,C6,C8,C9,C10,C11,C13,C14,C16,C17,C18,C19,C21,C22,C23,C24,C28,C29,C31,C32,C38,C42,C43,C46,C47,C48,C4					
3	32	9,C50,C360,C365,C443,C448		.1uF	GRM033R61A104KE15D	MURATA	201
4	3	C25,C333,C334		0.01uF	GRM033R71A103KA01D	MURATA	201
5	1	C27		.001uF	04025C102JAT2A	AVX	402
6	1	C30		.68uF	C1005X750J684K050BC	TDK	402
7	1	C33		3900pF	02012D392KAT2A	AVX	201
8	1	C34		47pF	GRM0335C1E470JA01D	MURATA	201
		C35,C36,C107,C108,C111,C112,C115,C116,C117,C118,C122,C123,C124,C125,C126,C127,C128,C129,C132,C133,C136,C137,C140,C141,C144,C145,C148,C149,C152,C153,C156,C157,C160,C161,C164,C165,C167,C169,C170,C171,C174,C175,C176,C177,C375,C407,C438,C439,C446		.1uF	C0603X751A104K030BC	TDK	201
9	49			100pF	C1005C0G1H101J050BA	TDK	402
10	1	C39		2200pF	GRM155R71H222JA01J	MURATA	402
11	1	C40		10pF	GRM1555C1H100FA01D	MURATA	402
12	1	C41		12pF	CBR02C120F3GAC	Kemet	201
13	1	C51		1uF	GRM155R61A105KE15D	MURATA	402
14	2	C52,C58					
		C53,C59,C61,C65,C67,C80,C81,C82,C83,C84,C85,C86,C87,C223,C247,C260,C312,C314,C364,C368,C369,C389,C402,C433		.1uF	GRM155R71C104KA88D	MURATA	402
15	24			1uF	C1608X7R1E105K080AB	TDK	603
16	5	C55,C56,C57,C63,C64		10uF	C1608X5R1A106K080AC	TDK	603
17	1	C62		4.7uF	C0603C475K8PACTU	Kemet	603
18	3	C66,C68,C442					
		C70,C72,C222,C236,C241,C244,C250,C254,C255,C258,C262,C268,C271,C274,C282,C291,C294,C300,C304,C308,C322,C387,C390,C393,C415,C418,C420,C445		10uF	CL21B106KOQNNNE	SAMSUNG	805
19	28	C71,C225,C248,C259,C307,C315,C318,C320,C388,C432,C435		1.0uF	C1608X7R1E105K080AE	TDK	603
20	11			100uF	C1206C107M9PACTU	KEMET	1206
21	2	C73,C75		10uF	GRM31CR61E106KA12L	MURATA	1206
22	1	C74		22pF	04025A220KAT2A	AVX	402
23	0	C76,C77	DNI	27pF	CC0402JRNPO9BN270	Yageo	402
24	2	C78,C79					
		C106,C110,C114,C119,C131,C135,C139,C143,C147,C151,C155,C159,C163,C168,C218,C220,C373,C376		10uF	C1608X750J106M080AC	TDK CORP	603
25	18			1uF	02016D105MAT2A	AVX	201
26	1	C120		.1uF	GRM155R71C104KA88D	Samsung	402
27	0	C179,C400	DNI	47uF	GRM32ER71A476KE15L	MURATA	1210
28	2	C221,C303		22uF	GRM31CR71A226KE15L	MURATA	1206
29	5	C224,C384,C395,C428,C429					
		C237,C242,C245,C251,C256,C263,C269,C272,C275,C283,C292,C295,C305,C309,C321,C386,C417,C419,C444		1.0uF	CL10B105K08NNNC	Samsung Electro-Mechanics America, Inc	603
30	19			33uF	C4532X7R1C336M250KC	TDK	1812
31	0	C249	DNI	22uF	GRM31CR71A226KE15L	MURATA	1206
32	0	C253	DNI	10uF	GRM21BR61E106KA73L	MURATA	805
33	2	C311,C394		47uF	GRM32ER61A476KE20L	MURATA	1210
34	1	C316		10uF	C2012X5R0J106M125AB	TDK	805
35	1	C317		5600pF	GRM155R71H562KA88D	Murata	402
36	2	C329,C413		5600pF	GRM155R71H562KA88D	Murata	402
36a	0	C327,C397,C399	DNI	.3pF	GRM1555C1HR30WA01D	MURATA	402
37	0	C328,C398	DNI	1000pF	CL05B102K05NNNC	Samsung	402
38	0	C330,C331,C332,C401,C403,C404	DNI				
		C342,C343,C344,C345,C346,C347,C348,C349,C350,C351,C352,C353,C356,C357,C358,C374,C377		1uF	CL05B105KQ5NQNC	TDK	402
39	17			0.01uF	GRM155R71H103KA88D	MURATA	402
40	0	C370	DNI	.01uF	GRM033R71A103KA01D	MURATA	201
41	8	C371,C372,C378,C379,C380,C381,C382,C383					

42	2	C391,C392		.047uF	GRM155R71E473KA88J	MURATA	402
43	2	C434,C436		47uF	C2012X5R1A476M125AC	TDK	805
44	5	D1,D2,D3,D4,D11		LED GREEN	LTST-C150KGKT	LITE ON	LED_1206
45	1	D5		LED AMBER	LTST-C150AKT	LITE ON	LED_1206
46	3	D8,D9,D10		LED BLUE	LTST-C171TBKT	LITE ON	LED_0805
47	1	FB1		120 OHM @ 100MHz	BLM31PG121SN1L	MURATA	1206
48	10	FB2,FB3,FB4,FB5,FB6,FB7,FB8,FB9,FB10,FB11		120	BLM18AG121SN1D	MURATA	603
49	4	FB12,FB14,FB17,FB18		60 OHM @ 100MHz	FBMJ3216HM600-T	Taiyo Yuden	1206
		FB19,FB20,FB21,FB22,FB23,FB24,FB26,FB27,FB28,FB29, FB30,FB31,FB32,FB33,FB34,FB35,FB36,FB37,FB40,FB41, FB42		27uF	NFM31PC276B0J3L	Murata	1206_BEAD_NFM31P
50	21						
51	0	F1	DNI	FUSE 2.0A 63V FAST	1206SFF200F/63-2	TE Connectivity	1206
52	1	JP1	(SHUNT 2-3)	Jumper_1x3_100_430L	HMTSW-103-07-G-S-.230	SAMTEC	HDR_THVT_1x3_100_M
53	1	JP2	(SHUNT 1-2)	Jumper_1x3_100_430L	HMTSW-103-07-G-S-.230	SAMTEC	HDR_THVT_1x3_100_M
54	2	JP3,JP10	SHUNT 1-2	HEADER_1x2_100_430L	HMTSW-102-07-G-S-.240	SAMTEC	HDR_THVT_1x2_100_M
55	2	JP8,JP9		HEADER_1x2_100_430L	HMTSW-102-07-G-S-.240	SAMTEC	HDR_THVT_1x2_100_M
56	3	J1,J2,J7		SMA END LAUNCH	142-0711-821	Johnson Components	SMA_SMEL_DUAL_PSF-S01_250x215
57	5	J4,J8,J24,J25,J26		SMA_THVT_REC	142-0701-201	Johnson Components	SMA_THVT_312x312
58	0	J6	DNI	SMA END LAUNCH	142-0711-821	Johnson Components	SMA_SMEL_DUAL_PSF-S01_250x215
59	1	J11		HMTSW-105-07-G-D-.240	HMTSW-105-07-G-D-.240	SAMTEC	HDR_THVT_2x5_100_M
60	1	J16		USB_MINI_AB	0678038020	Molex	CON_SMRT_USBMINI_AB_F_mod
61	1	J20		CON_SMVT_40x10_SEAM	SEAM-40-02.0-S-10-2-A-K-TR	SAMTEC	CON_SMVT_40X10_SEAM_MTG
62	1	J21		CONN JACK PWR	RAPC722X	SWITCHCRAFT	CON_RAPC722_JACK_THVT_3
63	1	J22	SHUNT 1-2, 3-4, 5-6	HDR 2X3 2mm	57202-G52-03LF	FCI	HDR_SMVT_2x3_79_M
64	1	J23	SHUNT 1-2, 3-4, 5-6, 7-8	HDR 2x4 2mm	57202-G52-04LF	FCI	HDR_SMVT_2x4_79_M
65	0	J27	DNI	SMA END LAUNCH	142-0711-841	Johnson Components	SMA_SMEL_DUAL_PSF-S01_250x215
66	0	L1,L2,L7,L8	DNI	560nH	0402AF-561XJLU	Coilcraft	402
67	1	L3		1uH	XFL4020-102MEC	Coilcraft	IND_SM_XFL4015
68	1	L5		.47uH	XFL4015-471MEB	Coilcraft	IND_SM_XFL4015
69	0	L9,L10	DNI	560nH	0402AF-561XJLU	Coilcraft	402
70	4	MT1,MT2,MT3,MT4	STANDOFF	STANDOFF, 4-40, 3/16 Rd x 1 3/16 Length, ALUM	1648-440-AL	RAF Electronic Hardware	MFG125_PLATED
		PP1,PP2,PP3,PP4,PP5,PP7,PP8,PP9,PP10,PP13,PP15,PP1 7,PP18,PP19,PP20,PP23,PP24,PP25,PP26,PP27		PROBE POINT	N/A	N/A	PROBE_POINT_22PAD
71	0			DTC114EET1G	DTC114EET1G	ON Semiconductor	SOT_416_3_63x31
72	3	Q1,Q2,Q3		CSD18532Q5	CSD18532Q5B	TI	SON_Q5B_8
73	1	Q4		0	ERJ-1GN0R00C	PANASONIC	201
74	1	R1		294	ERJ-1GEF2940C	Panasonic	201
75	0	R2,R3	DNI	49.9	ERJ-1GEF49R9C	PANASONIC	201
76	0	R4,R5,R29,R48,R243,R280,R287 R9,R10,R131,R232,R244,R263,R264,R265,R266,R268,R2 69,R273,R288,R289,R290,R291,R292,R293,R294,R295,R 314,R318,R319,R321,R323,R324	DNI	0	ERJ-2GE0R00X	PANASONIC	402
77	0			1k	ERJ-2RKF1001X	PANASONIC	402
78	6	R11,R69,R79,R81,R84,R110		3.65K	ERJ-2RKF3651X	PANASONIC	402
79	1	R12		24.9K	ERJ-1GEF2492C	PANASONIC	201
80	0	R20	DNI	39K	ERJ-1GEF3902C	PANASONIC	201
81	1	R21		0	ERJ-1GN0R00C	PANASONIC	201
82	8	R22,R23,R31,R36,R55,R57,R103,R104		240	ERJ-1GEF2400C	PANASONIC	201
83	0	R24,R25,R26,R27,R41,R42,R45,R46,R50,R51,R56,R58	DNI	620	ERJ-1GEF6200C	PANASONIC	201
84	1	R28		0	ERJ-3GEY0R00V	PANASONIC	603
85	0	R30	DNI	18	ERJ-2RKF18R0X	PANASONIC	402
86	1	R32		294	ERJ-2RKF2940X	PANASONIC	402
87	2	R33,R34		49.9	ERJ-2RKF49R9X	PANASONIC	402
88	1	R35		240	ERJ-1GEF2400C	PANASONIC	201
89	2	R37,R38		100	ERJ-1GEF1000C	PANASONIC	201
90	5	R39,R40,R52,R106,R107		130	ERJ-1GEF1300C	Panasonic	201
91	0	R43,R49	DNI	100	ERJ-1GEF1000C	PANASONIC	201
92	0	R44,R267	DNI	82	ERJ-1GEF82R0C	Panasonic	201
93	0	R47,R53	DNI	49.9	ERJ-1GEF49R9C	PANASONIC	201
94	5	R54,R218,R219,R283,R329		750	CRCW0603750RFKEA	DALE	603
95	4	R59,R60,R61,R62		3.01K	ERJ-2RKF3011X	PANASONIC	402
96	1	R63		0	ERJ-3GEY0R00V	PANASONIC	603
97	5	R64,R238,R241,R248,R250		10	ERJ-2RKF10R0X	PANASONIC	402
98	2	R65,R66		4.7K	ERJ-2RKF4701X	PANASONIC	402
99	1	R67		12K	ERJ-2RKF1202X	PANASONIC	402
100	1	R68					

101	6	R70,R71,R72,R73,R224,R252		10k	ERJ-2RKF1002X	PANASONIC	402
102	1	R74		2.2K	RC0402FR-072K2L	Yageo	402
103	20	R80,R82,R83,R129,R130,R140,R148,R179,R180,R181,R182,R183,R184,R185,R186,R239,R240,R286,R317,R320		0	ERJ-2GE0R00X	Panasonic	402
104	1	R115		1.13k	ERJ-2RKF1131X	Panasonic	402
105	1	R116		4.53k	ERJ-2RKF4531X	Panasonic	402
106	3	R121,R122,R297		0	5108	KEYSTONE	1206
107	1	R125		255k	ERJ-2RKF2553X	PANASONIC	402
108	2	R126,R226		499k	ERJ-2RKF4993X	PANASONIC	402
109	6	R173,R174,R175,R176,R177,R178		22	ERJ-2RKF22R0X	PANASONIC	402
110	1	R187		1.3K	ERJ-2RKF1301X	Panasonic	402
111	0	R199,R229	DNI	100	ERJ-2GE0R00X	PANASONIC	402
112	2	R210,R211		11.3	ERJ-2RKF11R3X	Panasonic	402
113	1	R212		71.5	ERJ-2RKF71R5X	Panasonic	402
114	3	R213,R214,R215		0.18	ERJ-2BSFR18X	Panasonic	402
115	0	R221	DNI	102k	ERJ-2RKF1023X	PANASONIC	402
116	2	R222,R228		162k	ERJ-2RKF1623X	Panasonic	402
117	1	R225		12.7k	ERJ-2RKF1272X	Panasonic	402
118	0	R227	DNI	348k	ERJ-2RKF3483X	PANASONIC	402
119	0	R233	DNI	22	ERJ-2RKF22R0X	PANASONIC	402
120	0	R249	DNI	0	ERJ-3GEY0R00V	PANASONIC	603
121	0	R242	DNI	49.9	ERJ-2RKF49R9X	PANASONIC	402
122	0	R254	DNI	1.27K	ERJ-2RKF1271X	PANASONIC	402
123	3	R255,R258,R285		100k	ERJ-2RKF1003X	PANASONIC	402
124	0	R256	DNI	10K	ERJ-2RKF1002X	PANASONIC	402
125	2	R272,R274		0	ERJ-2GE0R00X	PANASONIC	402
126	1	R282		97.6	ERJ-2RKF97R6X	PANASONIC	402
127	0	R284,R296	DNI	0	5108	KEYSTONE	1206
128	1	R298		40.2k	ERJ-2RKF4022X	PANASONIC	402
129	17	R299,R300,R301,R302,R303,R304,R305,R306,R307,R308,R309,R310,R311,R312,R315,R316,R332		0	5106	KEYSTONE	805
130	1	R330		205k	ERJ-2RKF2053X	PANASONIC	402
131	0	R331,R333	DNI	0	5106	KEYSTONE	805
132	4	SHN1,SHN2,SHN17,SHN18		SHUNT HEADER	STC02SYAN	Sullins	
133	7	SHN5,SHN6,SHN7,SHN8,SHN9,SHN10,SHN11		SHUNT, JUMPER 2mm	NPN02SXLN-RC	Sullins	
134	0	SJP1	DNI	SOLDER JUMPER, 0402	DNI	DNI	SMD_JUMPER_L_0402
135	1	SW1		DAC RESET	PTS635SL43 LFS	C&K Components	sw_thvt_spst_pts635sl43
136	3	TP1,TP2,TP14		BLK	5001	KEYSTONE	TP_THVT_060_RND
137	2	TP9,TP10		YELLOW	5004	KEYSTONE	TP_THVT_060_RND
138	1	TP21		Testloop_Red	5010	Keystone	testpoint_62dia
139	1	TP22		Testloop_Black	5011	KEYSTONE	testpoint_62dia
140	1	T1		NCR2-113+	NCR2-113+	MINI-CIRCUITS	BALUN_6_NCR2
141	1	T3		TC1-1-13M+	TC1-1-13M+	Mini-Circuits	TFMR_5_150x150_50
142	0	T5,T7	DNI	TCM3-452X-1+	TCM3-452X-1+	Mini-Circuits	TFMR_6_160x150_50
143	1	T8		TCM2-43X+	TCM2-43X+	Mini-Circuits	TFMR_6_160x150_50
144	1	U1		DAC38RF80	DAC38RF80IAAV	Texas Instruments	BGA_144_10MMx10MM_0P80MM
145	1	U2		LMK04828	LMK04828BISQ/NOPB	Texas Instruments	QFN_64_360X360_0P50MM_PWRPAD
146	1	U4		FT2232H	FT2232HL	FTDI	LQFP_64_402x402_20
147	1	U5		93LC46B-I/MS	93LC46B-I/MS	Microchip	MSOP_8_118X118_26
148	1	U9		TPS2400	TPS2400DBVT	Texas Instruments	DBV5
149	1	U12		TPS74401/QFN20	TPS74401RGWT	Texas Instruments	qfn_20_197x197_0p65_rgw
150	1	U19		LM27761	LM27761DSGR	Texas Instruments	SON_DSG_8
151	1	U21		TPS7A4700	TPS7A4700RGWT	Texas Instruments	qfn20_rgw_p65pitch
152	1	U23		LP5907-3.3	LP5907MFX-3.3/NOPB	Texas Instruments	DBV5
153	1	U29		TXS0108E	TXS0108ERGYR	Texas Instruments	QFN_20_183x144_RGY
154	1	U30		NB7V33M	NB7V33MMNG	On Semi	qfn_16_124x124_pwrpad
155	1	U31		TPS62095	TPS62095RGTR	Texas Instruments	QFN_16_124x124_RGT
156	1	U34		TPS7A8101	TPS7A8101DRBR	Texas Instruments	SON_DRB_8
157	1	U35		TPS62085	TPS62085RLTR	Texas Instruments	QFN_RLT_7
158	0	U37	DNI	TPS7A8500	TPS7A8500RGR	Texas Instruments	QFN20_RGR_p5mm
159	1	Y1		122.88MHz	CVHD-950-122.880	Crystek	VCXO_6_CUSTOM
160	1	Y2		12MHz w/ 10pF	ABM8G-12.000MHZ-B4Y-T	Abracon	XTAL_4_SM_130X102
161	4	Z_SCREW1,Z_SCREW2,Z_SCREW3,Z_SCREW4	OR EQUIVALENT	SCREW, PHIL, 4-40x3/8", SS	PMSSS 440 0038 PH	BUILDING FASTENERS	
162	1			HEATSINK, EXTRUDED, RED	10-1003850	SVT	

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