

Bill of Materials

TI DESIGNS

TIDA-01084

Item	Quantity	Reference	Note	Part	Part Number	Manufacturer	Foot Print
1	9	C1,C54,C60, C313,C385, C427,C440, C441,C447 C2,C3,C37,C 44,C45,C36 6,C449,C45		0.01uF	GRM155R71H1 03KA88D	MURATA	402
2	0	0	DNI	.1uF	GRM033R61A1 04KE15D	MURATA	201
3	32	C5,C6,C8,C9 ,C10,C11,C1 3,C14,C16,C 17,C18,C19, C21,C22,C2 3,C24,C28,C 29,C31,C32, C38,C42,C4 3,C46,C47,C 48,C49,C50, C360,C365, C443,C448 C25,C333,C		.1uF	GRM033R61A1 04KE15D	MURATA	201
4	3	334		0.01uF	GRM033R71A1 03KA01D	MURATA	201
5	1	C27		.001uF	04025C102JAT 2A	AVX	402
6	1	C30		.68uF	C1005X7S0J684 K050BC	TDK	402
7	1	C33		3900pF	0201ZD392KAT 2A	AVX	201
8	1	C34		47pF	GRM0335C1E4 70JA01D	MURATA	201

C35,C36,C1
 07,C108,C1
 11,C112,C1
 15,C116,C1
 17,C118,C1
 22,C123,C1
 24,C125,C1
 26,C127,C1
 28,C129,C1
 32,C133,C1
 36,C137,C1
 40,C141,C1
 44,C145,C1
 48,C149,C1
 52,C153,C1
 56,C157,C1
 60,C161,C1
 64,C165,C1
 67,C169,C1
 70,C171,C1
 74,C175,C1
 76,C177,C3
 75,C407,C4
 38,C439,C4

9	49	46	.1uF	C0603X7S1A10 4K030BC	TDK	201
10	1	C39	100pF	C1005C0G1H10 1J050BA	TDK	402
11	1	C40	2200pF	GRM155R71H2 22JA01J	MURATA	402
12	1	C41	10pF	GRM1555C1H1 00FA01D	MURATA	402
13	1	C51	12pF	CBR02C120F3G AC	Kemet	201
14	2	C52,C58	1uF	GRM155R61A1 05KE15D	MURATA	402

		C53,C59,C61,C65,C67,C80,C81,C82,C83,C84,C85,C86,C87,C223,C247,C260,C312,C314,C364,C368,C369,C389,C402,C					
15	24	433	.1uF	GRM155R71C104KA88D	MURATA	402	
16	5	C55,C56,C57,C63,C64	1uF	C1608X7R1E105K080AB	TDK	603	
17	1	C62	10uF	C1608X5R1A106K080AC	TDK	603	
18	3	C66,C68,C42	4.7uF	C0603C475K8PACTU	Kemet	603	
		C70,C72,C22,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					
19	28	C71,C225,C248,C259,C307,C315,C318,C320,C388,C432,C	10uF	CL21B106KOQNNNE	SAMSUNG	805	
20	11	435	1.0uF	C1608X7R1E105K080AE	TDK	603	
21	2	C73,C75	100uF	C1206C107M9PACTU	KEMET	1206	
22	1	C74	10uF	GRM31CR61E106KA12L	MURATA	1206	
23	0	C76,C77	DNI	04025A220KAT2A	AVX	402	

					CC0402JRNPO9		
24	2	C78,C79 C106,C110, C114,C119, C131,C135, C139,C143, C147,C151, C155,C159, C163,C168, C218,C220,		27pF	BN270	Yageo	402
25	18	C373,C376		10uF	C1608X750J106 M080AC	TDK CORP	603
26	1	C120		1uF	02016D105MA T2A	AVX	201
27	0	C179,C400	DNI	.1uF	GRM155R71C1 04KA88D	Samsung	402
28	2	C221,C303 C224,C384, C395,C428,		47uF	76KE15L	MURATA	1210
29	5	C429 C237,C242, C245,C251, C256,C263, C269,C272, C275,C283, C292,C295, C305,C309, C321,C386, C417,C419,		22uF	GRM31CR71A2 26KE15L	MURATA	1206
30	19	C444		1.0uF	CL10B105KO8N NNC	Samsung Electro- Mechanics America, Inc	603
31	0	C249	DNI	33uF	C4532X7R1C33 6M250KC	TDK	1812
32	0	C253	DNI	22uF	GRM31CR71A2 26KE15L	MURATA	1206
33	2	C311,C394		10uF	GRM21BR61E1 06KA73L	MURATA	805
34	1	C316		47uF	76KE20L	MURATA	1210
35	1	C317		10uF	C2012X5R0J106 M125AB	TDK	805
36	2	C329,C413 C327,C397,		5600pF	GRM155R71H56 2KA88D	Murata	402
36a	0	C399	DNI	5600pF	GRM155R71H56 2KA88D	Murata	402

37	0	C328,C398 C330,C331, C332,C401,	DNI	.3pF	GRM1555C1HR 30WA01D	MURATA	402
38	0	C403,C404 C342,C343, C344,C345, C346,C347, C348,C349, C350,C351, C352,C353, C356,C357, C358,C374, C377	DNI	1000pF	CL05B102KO5N NNC	Samsung	402
39	17			1uF	CL05B105KQ5N QNC	TDK	402
40	0	C370 C371,C372, C378,C379, C380,C381, C382,C383	DNI	0.01uF	GRM155R71H1 03KA88D	MURATA	402
41	8			.01uF	GRM033R71A1 03KA01D	MURATA	201
42	2	C391,C392		.047uF	GRM155R71E4 73KA88J	MURATA	402
43	2	C434,C436 D1,D2,D3,D 4,D11		47uF	C2012X5R1A47 6M125AC	TDK	805
44	5			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 120 OHM @	LTST-C171TBKT BLM31PG121S	LITE ON	LED_0805
47	1	FB1 FB2,FB3,FB 4,FB5,FB6,F B7,FB8,FB9, FB10,FB11 FB12,FB14, FB17,FB18		100MHz	N1L	MURATA	1206
48	10			120 60 OHM @	BLM18AG121S N1D FBMJ3216HM6	MURATA	603
49	4			100MHz	00-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			NFM31PC276B		1206_BEAD_ NFM31P
50	21			27uF FUSE 2.0A 63V	OJ3L 1206SFF200F/6	Murata	
51	0	F1	DNI	FAST	3-2	TE Connectivity	1206
52	1	JP1	(SHUNT 2-3)	Jumper_1x3_1 00_430L	HMTSW-103-07- G-S-.230	SAMTEC	HDR_THVT_ 1x3_100_M
53	1	JP2	(SHUNT 1-2)	Jumper_1x3_1 00_430L	HMTSW-103-07- G-S-.230	SAMTEC	HDR_THVT_ 1x3_100_M
54	2	JP3,JP10	SHUNT 1-2	HEADER_1x2_1 00_430L	HMTSW-102-07- G-S-.240	SAMTEC	HDR_THVT_ 1x2_100_M
55	2	JP8,JP9		HEADER_1x2_1 00_430L	HMTSW-102-07- G-S-.240	SAMTEC	HDR_THVT_ 1x2_100_M
56	3	J1,J2,J7 J4,J8,J24,J2		SMA END LAUNCH	142-0711-821	Johnson Components	SMA_SMEL_ DUAL_PSF- S01_250x21 5
57	5	J5,J26		SMA_THVT_RE C	142-0701-201	Johnson Components	SMA_THVT_ 312x312 SMA_SMEL_ DUAL_PSF- S01_250x21
58	0	J6	DNI	LAUNCH	142-0711-821	Johnson Components	5
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_40 x10_SEAM	SEAM-40-02.0- S-10-2-A-K-TR	SAMTEC	CON_SMVT_ 40X10_SEA M_MTG
62	1	J21		CONN JACK PWR	RAPC722X	SWITCHCRAFT	CON_RAPC7 22_JACK_TH VT_3
63	1	J22	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 SMA_SMEL_ DUAL_PSF- S01_250x21
65	0	J27	DNI	SMA END LAUNCH	142-0711-841 0402AF-	Johnson Components	5
66	0	L1,L2,L7,L8	DNI	560nH	561XJLU	Coilcraft	402
67	1	L3		1uH	102MEC	Coilcraft	4015
68	1	L5		.47uH	471MEB	Coilcraft	4015
69	0	L9,L10	DNI	560nH	561XJLU	Coilcraft	402
70	4	MT1,MT2, MT3,MT4 PP1,PP2,PP 3,PP4,PP5,P P7,PP8,PP9, PP10,PP13, PP15,PP17, PP18,PP19, PP20,PP23, PP24,PP25, PP26,PP27	STANDOFF FF	STANDOFF, 4- 40, 3/16 Rd x 1 3/16 Length, ALUM	1648-440-AL	RAF Electronic Hardware	MFG125_PL ATED
71	0			PROBE POINT	N/A	N/A ON	PROBE_POI NT_22PAD SOT_416_3_
72	3	Q1,Q2,Q3		DTC114EET1G	DTC114EET1G	Semiconductor	63x31
73	1	Q4		CSD18532Q5	CSD18532Q5B	TI	SON_Q5B_8
74	1	R1		0	ERJ-1GN0R00C	PANASONIC	201
75	0	R2,R3 R4,R5,R29,R 48,R243,R2	DNI	294	ERJ-1GEF2940C	Panasonic	201
76	0	80,R287	DNI	49.9	ERJ-1GEF49R9C	PANASONIC	201

		R9,R10,R13 1,R232,R24 4,R263,R26 4,R265,R26 6,R268,R26 9,R273,R28 8,R289,R29 0,R291,R29 2,R293,R29 4,R295,R31 4,R318,R31 9,R321,R32						
77	0	3,R324	DNI	0	ERJ-2GE0R00X	PANASONIC	402	
		R11,R69,R7 9,R81,R84,R						
78	6	110		1k	ERJ-2RKF1001X	PANASONIC	402	
79	1	R12		3.65K	ERJ-2RKF3651X	PANASONIC	402	
80	0	R20	DNI	24.9K	ERJ-1GEF2492C	PANASONIC	201	
81	1	R21		39K	ERJ-1GEF3902C	PANASONIC	201	
		R22,R23,R3 1,R36,R55,R 57,R103,R1						
82	8	04		0	ERJ-1GN0R00C	PANASONIC	201	
		R24,R25,R2 6,R27,R41,R 42,R45,R46, R50,R51,R5						
83	0	6,R58	DNI	240	ERJ-1GEF2400C	PANASONIC	201	
84	1	R28		620	ERJ-1GEF6200C	PANASONIC	201	
85	0	R30	DNI	0	ERJ-3GEY0R00V	PANASONIC	603	
86	1	R32		18	ERJ-2RKF18R0X	PANASONIC	402	
87	2	R33,R34		294	ERJ-2RKF2940X	PANASONIC	402	
88	1	R35		49.9	ERJ-2RKF49R9X	PANASONIC	402	
89	2	R37,R38		240	ERJ-1GEF2400C	PANASONIC	201	

90	5	R39,R40,R52,R106,R107		100	ERJ-1GEF1000C	PANASONIC	201
91	0	R43,R49	DNI	130	ERJ-1GEF1300C	Panasonic	201
92	0	R44,R267	DNI	100	ERJ-1GEF1000C	PANASONIC	201
93	0	R47,R53	DNI	82	ERJ-1GEF82ROC	Panasonic	201
94	5	R54,R218,R219,R283,R329		49.9	ERJ-1GEF49R9C	PANASONIC	201
95	4	R59,R60,R61,R62		750	CRCW0603750 RFKEA	DALE	603
96	1	R63		3.01K	ERJ-2RKF3011X	PANASONIC	402
97	5	R64,R238,R241,R248,R250		0	ERJ-3GEY0R00V	PANASONIC	603
98	2	R65,R66		10	ERJ-2RKF10R0X	PANASONIC	402
99	1	R67		4.7K	ERJ-2RKF4701X	PANASONIC	402
100	1	R68		12K	ERJ-2RKF1202X	PANASONIC	402
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 R173,R174, R175,R176, R177,R178		499k	ERJ-2RKF4993X	PANASONIC	402
109	6			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 R213,R214, R215		71.5	ERJ-2RKF71R5X	Panasonic	402
114	3			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

		R299,R300, R301,R302, R303,R304, R305,R306, R307,R308, R309,R310, R311,R312, R315,R316,					
129	17	R332		0	5106	KEYSTONE	805
130	1	R330		205k	ERJ-2RKF2053X	PANASONIC	402
131	0	R331,R333	DNI	0	5106	KEYSTONE	805
		SHN1,SHN2, SHN17,SHN		SHUNT			
132	4	18		HEADER	STC02SYAN	Sullins	
		SHN5,SHN6, SHN7,SHN8, SHN9,SHN1		SHUNT,			
133	7	0,SHN11		JUMPER 2mm	NPN02SXLN-RC	Sullins	
				SOLDER			SMD_JUMPE
134	0	SJP1	DNI	JUMPER, 0402	DNI	DNI	R_L_0402
						C&K	sw_thvt_sps
135	1	SW1		DAC RESET	PTS635SL43 LFS	Components	t_pts635sl43
		TP1,TP2,TP					TP_THVT_06
136	3	14		BLK	5001	KEYSTONE	0_RND
							TP_THVT_06
137	2	TP9,TP10		YELLOW	5004	KEYSTONE	0_RND
							testpoint_62
138	1	TP21		Testloop_Red	5010	Keystone	dia
							testpoint_62
139	1	TP22		Testloop_Black	5011	KEYSTONE	dia
							BALUN_6_N
140	1	T1		NCR2-113+	NCR2-113+	MINI-CIRCUITS	CR2
							TFMR_5_15
141	1	T3		TC1-1-13M+	TC1-1-13M+	Mini-Circuits	0x150_50
							TFMR_6_16
142	0	T5,T7	DNI	TCM3-452X-1+	TCM3-452X-1+	Mini-Circuits	0x150_50
							TFMR_6_16
143	1	T8		TCM2-43X+	TCM2-43X+	Mini-Circuits	0x150_50
							BGA_144_10
					DAC38RF80IAA	Texas	MMx10MM
144	1	U1		DAC38RF80	V	Instruments	_OP80MM

												QFN_64_36 OX360_OP50 MM_PWRPA
145	1	U2		LMK04828	LMK04828BISQ /NOPB	Texas Instruments						D
146	1	U4		FT2232H	FT2232HL	FTDI						LQFP_64_40 2x402_20 MSOP_8_11
147	1	U5		93LC46B-I/MS	93LC46B-I/MS	Microchip Texas						8X118_26
148	1	U9		TPS2400	TPS2400DBVT	Instruments						DBV5 qfn_20_197
149	1	U12		TPS74401/QFN 20	TPS74401RGW T	Texas Instruments						x197_0p65_ rgw
150	1	U19		LM27761	LM27761DSGR	Instruments						SON_DSG_8
151	1	U21		TPS7A4700	TPS7A4700RG WT	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_18 3x144_RGY qfn_16_124 x124_pwrpa d
154	1	U30		NB7V33M	NB7V33MMNG	On Semi Texas						QFN_16_12
155	1	U31		TPS62095	TPS62095RGTR TPS7A8101DRB	Instruments Texas						4x124_RGT
156	1	U34		TPS7A8101	R	Instruments Texas						SON_DRB_8
157	1	U35		TPS62085	TPS62085RLTR TPS7A8500RGR	Instruments Texas						QFN_RLT_7 QFN20_RGR
158	0	U37	DNI	TPS7A8500	R	Instruments						_p5mm
159	1	Y1		122.88MHz	CVHD-950- 122.880 ABM8G-	Crystek						VCXO_6_CU STOM
160	1	Y2		12MHz w/ 10pF	12.000MHZ- B4Y-T	Abracon						XTAL_4_SM _130X102
161	4	Z_SCREW1, Z_SCREW2, Z_SCREW3, Z_SCREW4	OR EQUIVA LENT	SCREW, PHIL, 4- 40x3/8", SS HEATSINK, EXTRUDED, RED	PMSSS 440 0038 PH	BUILDING FASTENERS						
162	1				10-1003850	SVT						

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