

	A	B	C	D	E	F	G	H
1					TIDA-01161	ADC32RF45EVM	Revision: D	
2	Item	Quantity	Reference	Note	Part	Part Number	Manufacturer	Foot Print
3	1	0	C1,C6,C7,C12	DNI	.1uF	GRM188R71C104KA01D	MURATA	603
4	2	64	C8,C9,C13,C14,C15,C16,C17,C18,C19,C20,C21,C22,C23,C24,C26,C27,C30,C31,C37,C38,C39,C40,C41,C42,C43,C44,C45,C46,C47,C48,C49,C52,C53,C54,C55,C56,C57,C58,C59,C60,C67,C68,C69,C77,C83,C84,C85,C170,C171,C372,C373,C390,C391,C392,C393,C396,C397,C399,C401,C418,C419,C428,C429,C430		.1uF	GRM033R61A104KE15D	MURATA	201
5	3	1	C28		.01uF	GRM155R71E103JA01J	MURATA	402
6	4	18	C33,C61,C88,C94,C96,C102,C105,C157,C163,C188,C368,C369,C382,C388,C415,C416,C424,C427		.1uF	GRM155R71C104KA88D	MURATA	402
7	5	2	C50,C51		.01uF	C0603X5R1A103K030BA	TDK	201
8	6	1	C70		.68uF	C1005X7S0J684K050BC	TDK	402
9	7	1	C71		3900pF	0201ZD392KAT2A	AVX	201
10	8	1	C72		47pF	GRM0335C1E470JA01D	MURATA	201
11	9	2	C73,C74		.01uF	GRM033R71A103KA01D	MURATA	201
12	10	0	C75,C81,C82,C431,C432	DNI	.1uF	GRM033R61A104KE15D	MURATA	201
13	11	1	C78		100pF	C1005COG1H101J050BA	TDK	402
14	12	1	C79		2200pF	GRM155R71E222KA01D	Murata	402
15	13	1	C80		10pF	GRM1555C1H100JA01D	MURATA	402
16	14	1	C86		12pF	C0603COG1H120J030BA	TDK	201
17	15	20	C87,C90,C91,C92,C93,C98,C99,C122,C158,C166,C187,C191,C196,C378,C387,C389,C398,C400,C402,C404		1uF	C1005X5R1A105K050BB	TDK	402
18	16	2	C89,C95		0.01uF	GRM155R71H103KA88D	MURATA	402
19	17	1	C97		10uF	C1608X5R1A106K	TDK	603
20	18	0	C101	DNI	4.7uF	TAJB475K010RNJ	AVX	TANT B
21	19	2	C103,C104		47pF	GRM1555C1H470FA01D	MURATA	402
22	20	3	C121,C183,C203		10uF	GRM21BR61E106KA73L	MURATA	805
23	21	1	C126		2.2uF	GRM188R71A225KE15D	MURATA	603
24	22	14	C156,C161,C173,C186,C190,C195,C197,C377,C381,C386,C403,C405,C406,C407		10uF	C1608X5R1A106K080AC	TDK	603
25	23	3	C159,C189,C385		47uF	GRM31CR61A476ME15L	MURATA	1206
26	24	4	C160,C185,C194,C384		33uF	C2012X5R1A336M125AC	TDK	805
27	25	2	C162,C383		.01uF	GRM033R71A103KA01D	Murata	201
28	26	1	C172		47uF	TPSB476K010R0250	AVX	TANT B
29	27	3	C184,C204,C376		22uF	GRM31CR71A226KE15L	Murata	1206
30	28	1	C193		.47uF	0603YD474KAT2A	AVX	603
31	29	1	C198		4.7uF	CL21B475K0FNNE	Samsung	805
32	30	0	C379	DNI	10uF	C1608X5R1A106K080AC	TDK	603
33	31	0	C380	DNI	.01uF	GRM155R71E103KA01D	Murata	201
34	32	1	C394		.047uF	GRM033R61C473KE84D	Murata	201
35	33	1	C395		560pF	GRM033R71E561KA01D	MURATA	201
36	34	6	C408,C409,C410,C411,C412,C413		100pF	GRM0335C1E101JA01D	Murata	201
37	35	0	C414,C417,C425,C426	DNI	.1uF	GRM155R71C104KA88D	MURATA	402
38	36	0	C420	DNI	6800pF	GRM033R71A682KA01D	Murata	201
39	37	1	C421		6800pF	GRM033R71A682KA01D	Murata	201
40	38	7	D1,D2,D3,D4,D5,D6,D7		LED GREEN	LTST-C150KGKT	LITE ON	LED 1206
41	39	1	FB1		120 OHM @ 100MHz	BLM31PG121SN1L	MURATA	1206
42	40	10	FB2,FB3,FB4,FB5,FB6,FB7,FB8,FB9,FB10,FB11		120	BLM18AG121SN1D	MURATA	603
43	41	1	FB12		1K OHM @ 100MHz	BLM41PG102SN1L	MURATA	1806
44	42	2	FB16,FB22		120 OHM @ 100MHz	BLM31PG121SN1L	MURATA	1206
45	43	3	FB17,FB19,FB20		27uF	NFM31PC276B0J3	Murata	1206 BEAD NFM31P
46	44	1	FB21		120 OHM @ 100MHz	BLM31PG121SN1L	MURATA	1206
47	45	0	F1	DNI	FUSE 10A 63V FAST	1206SFF200F/63-2	TE Connectivity	1206
48	46	1	HS1	Solder on bottom side of board, underneath the ADC	COPPER PIN FIN HEAT SINK	4-020205U	COOL INNOVATIONS	HEATSINK_270x270
49	47	1	JP1	SHUNT 2-3	HDR, THVT, 3POS	HTSW-103-07-G-S	SAMTEC	HDR_THVT_1X3_100_M
50	48	1	JP2		HEADER_1x2_100_430L	HMTSW-102-07-G-S-240	SAMTEC	HDR_THVT_1x2_100_M
51	49	1	JP3	SHUNT 1-2	HDR, THVT, 3POS	HTSW-103-07-G-S	SAMTEC	HDR_THVT_1X3_100_M

1	A	B	C	D	E	F	G	H
2	Item	Quantity	Reference	Note	TIDA-01161 ADC32RF45EVM Part	Revision: D Part Number	Manufacturer	Foot Print
52	50	0	J1,J4	DNI	SMA, JACK, END LAUNCH	142-0711-821	Johnson Components	SMA SMEL_DUAL_PSF-S01_250x215
53	51	2	J2,J3		SMA, JACK, END LAUNCH	142-0711-821	Johnson Components	SMA SMEL_DUAL_PSF-S01_250x215
54	52	1	J5		CONN, SMA, JACK, 50 OHM, EDGE MNT	142-0711-821	Johnson Components	SMA SMEL_DUAL_PSF-S01_250x215
55	53	3	J7,J13,J14		SMA THVT REC	142-0701-201	Johnson Components	SMA THVT_312x312
56	54	1	J10		CON, SMVT, HS, FIELD ARRAY, 400POS, MALE	SEAM-40-02.0-S-10-2-A-K-TR	SAMTEC	CON SMVT_40X10_SEAM_MTG
57	55	1	J11		CONN, USB MINI AB, SMT	651305142821	WURTH ELEKTRONIK	CON SMRT_USBMNE20_F
58	56	1	J15		CONN, JACK, PWR, MINI, R/A, TH	RAPC722X	SWITCHCRAFT	CON RAPC722 JACK THVT_3
59	57	1	J16		SMP_PCB_SMT	853050232	MOLEX INC.	smp_b120
60	58	3	L1,L2,L3		.47uH	XFL4015-471MEB	Coilcraft	IND_SM_XFL4015
61	59	2	MT1,MT2	STANDOFF	STANDOFF, FEMALE, 4-40 X 1 3/16", AL	1648-440-AL	RAF	MFG125_PLATED
62	60	1	Q1		CSD18532Q5	CSD18532Q5B	TI	SON_Q5B_8
63	61	4	RSHN1,RSHN2,RSHN3,RSHN4		SHUNT RES	ERJ-2GE0R00X	Panasonic Electronic Components	
64	62	0	R1,R11,R13,R23	DNI	0	ERJ-3GEY0R00V	PANASONIC	603
65	63	1	R80		100	ERJ-1GEF1000C	PANASONIC	201
66	64	0	R31,R89,R126,R138,R164,R165,R173,R191	DNI	0	ERJ-2GE0R00X	PANASONIC	402
67	65	4	R32,R35,R188,R189		10K	ERJ-2RKF1002X	PANASONIC	402
68	66	2	R33,R133		1K	ERJ-2RKF1001X	PANASONIC	402
69	67	0	R34	DNI	1K	ERJ-2RKF1001X	PANASONIC	402
70	68	0	R26,R29,R40,R69,R70	DNI	100	ERJ-1GEJ101C	Panasonic	201
71	69	1	R47		39K	ERJ-1GEF3902C	PANASONIC	201
72	70	7	R48,R49,R65,R66,R75,R79,R182		0	ERJ-1GN0R00C	PANASONIC	201
73	71	0	R50,R51,R52,R53,R77,R78	DNI	240	ERJ-1GEF2400C	PANASONIC	201
74	72	1	R54		620	ERJ-1GEF6200C	PANASONIC	201
75	73	0	R55,R74,R187,R192	DNI	49.9	ERJ-1GEF49R9C	PANASONIC	201
76	74	0	R56,R95	DNI	0	ERJ-3GEY0R00V	PANASONIC	603
77	75	1	R57		18	ERJ-2RKF18R0X	PANASONIC	402
78	76	2	R58,R59		292	ERJ-2RKF2940X	PANASONIC	402
79	77	1	R60		100	ERJ-2RKF1000X	PANASONIC	402
80	78	2	R63,R64		120	ERJ-1GEF1200C	PANASONIC	201
81	79	0	R67,R68	DNI	200	ERJ-1GEF2000C	PANASONIC	201
82	80	0	R71,R76	DNI	130	ERJ-1GEF1300C	Panasonic	201
83	81	0	R72	DNI	100	ERJ-1GEF1000C	PANASONIC	201
84	82	0	R73,R81	DNI	82	ERJ-1GEF82R0C	Panasonic	201
85	83	1	R82		49.9	ERJ-1GEF49R9C	PANASONIC	201
86	84	5	R84,R85,R86,R87,R88 R96,R124,R125,R127,R139,R140,R141, R170,R171,R172,R184		750	CRCW0603750RFKEA	DALE	603
87	85	11			0	ERJ-2GE0R00X	PANASONIC	402
88	86	1	R132		287K	ERJ-2RKF2873X	PANASONIC	402
89	87	3	R134,R147,R155		162K	ERJ-2RKF1623X	Panasonic	402
90	88	3	R136,R148,R153		1M	ERJ-2RKF1004X	Panasonic	402
91	89	1	R137		36.5K	ERJ-2RKF3652X	Panasonic	402
92	90	1	R143		2.4K	ERJ-2RKF2401X	PANASONIC	402
93	91	1	R145		4.75K	ERJ-2RKF4751X	PANASONIC	402
94	92	1	R146		82K	ERJ-2RKF8202X	PANASONIC	402
95	93	4	R151,R152,R180,R181		240	ERJ-1GEF2400C	PANASONIC	201
96	94	1	R154		124K	ERJ-2RKF1243X	PANASONIC	402
97	95	0	R157,R159	DNI	0	ERJ-6GEY0R00V	PANASONIC	805
98	96	1	R158		0	ERJ-6GEY0R00V	PANASONIC	805
99	97	0	R166,R167	DNI	182	ERJ-1GEF1820C	PANASONIC	201
100	98	0	R168,R169	DNI	68	ERJ-1GEF68R0C	PANASONIC	201
101	99	1	R174		150	ERJ-1GEJ151C	PANASONIC	201
102	100	4	R175,R176,R177,R178		49.9	ERJ-2RKF49R9X	PANASONIC	402
103	101	1	R179		680	ERJ-1GEF6800C	PANASONIC	201
104	102	1	R183		12	ERJ-1GEF12R0C	PANASONIC	201
105	103	0	R185	DNI	680	ERJ-1GEF6800C	PANASONIC	201
106	104	1	R186		12k	ERJ-2RKF1202X	PANASONIC	402
107	105	0	SJP1	DNI	SOLDER JUMPER, 0402	SMD PADS		SMD JUMPER_L_0402
108	106	4	SJP2,SJP3,SJP4,SJP5	SHUNT 1-2	SOLDER JUMPER, 0402	SMD PADS		SMD JUMPER_L_0402
109	107	1	SW1		SWITCH, SMT, PUSHBUTTON	EVQ-PNF04M	Panasonic	SW SMVT_SPST_EVQPIX_2
110	108	9	TP2,TP4,TP12,TP20,TP22,TP26,TP28,TP30,TP34		RED	5000	KEystone	TP_THVT_060_RND
111	109	5	TP3,TP7,TP25,TP32,TP33		YELLOW	5004	KEystone	TP_THVT_060_RND
112	110	1	TP17		Testloop_Red	5010	Keystone	testpoint_62dia
113	111	1	TP18		Testloop_Black	5011	KEystone	testpoint_62dia
114	112	5	TP19,TP21,TP27,TP29,TP31		BLK	5001	Keystone	TP_THVT_060_RND
115	113	5	T1,T2,T3,T4,T5		ETC1-1-13	ETC1-1-13	MACOM	TFMR_5_150X150_50
116	114	1	T6		TC1-1-13M+	TC1-1-13M+	Mini-Circuits	TFMR_5_150x150_50
117	115	1	U1		ADC32RF4X_72QFN	ADC32RF45IRMP	Texas Instruments	QFN_72_10MMX10MM_0P50MM_PWRPAD
118	116	1	U3		LMK04828	LMK04828BISQ	Texas Instruments	QFN_64_360X360_0P50MM_PWRPAD
119	117	1	U5		FT245RL	FT245RL-REEL	FTDI Chip	ssop_28_413x220_26

	A	B	C	D	E	F	G	H
1					TIDA-01161 ADC32RF45EVM	Revision: D		
2	Item	Quantity	Reference	Note	Part	Part Number	Manufacturer	Foot Print
120	118	3	U11,U14,U18		TPS62085	TPS62085RLTR	Texas Instruments	QFN_RLT_7
121	119	2	U12,U31		TPS7A4700	TPS7A4700RGWT	Texas Instruments	QFN_20_199x199_0p65mm
122	120	1	U15		TPS2400	TPS2400DBVT	Texas Instruments	DBV5
123	121	1	U16		TPS7A7200	TPS7A7200RGWR	Texas Instruments	QFN_20_199x199_0p65mm
124	122	1	U17		TPS74201/QFN20	TPS74201RGWR	Texas Instruments	qfn20_rgw_p65pitch
125	123	1	U29		TXB0104	TXB0104PWR	Texas Instruments	TSSOP14
126	124	1	U30		LMX2582	LMX2582RHAT	Texas Instruments	qfn40_RTA_RTb_RHA
127	125	2	U32,U33		MASW_009444	MASW-009444	Macom	PDFN_6_p35mm
128	126	1	Y1		122.88MHz	CVHD-950-122.880	Crystek	VCKO_6_CUSTOM
129	127	1	Z_BOARD1		BARE BOARD, ADC32RFXX	ADC32RFXX		
130	128	2	Z_SCREW1,Z_SCREW2	SCREW FOR STANDOFF	SCREW, 4-40 X 3/4", PHIL, SS	PMSSS 440 0075 PH	BUILDING FASTENERS	
131	129	2	Z_SH-J1,Z_SH-J2	SHUNT FOR HEADER	SHUNT-HEADER	382811-8	TE CONNECTIVITY	

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Designer(s)") who are developing systems that incorporate TI products. TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.

TI's provision of reference designs and any other technical, applications or design advice, quality characterization, reliability data or other information or services does not expand or otherwise alter TI's applicable published warranties or warranty disclaimers for TI products, and no additional obligations or liabilities arise from TI providing such reference designs or other items.

TI reserves the right to make corrections, enhancements, improvements and other changes to its reference designs and other items.

Designer understands and agrees that Designer remains responsible for using its independent analysis, evaluation and judgment in designing Designer's systems and products, and has full and exclusive responsibility to assure the safety of its products and compliance of its products (and of all TI products used in or for such Designer's products) with all applicable regulations, laws and other applicable requirements. Designer represents that, with respect to its applications, it has all the necessary expertise to create and implement safeguards that (1) anticipate dangerous consequences of failures, (2) monitor failures and their consequences, and (3) lessen the likelihood of failures that might cause harm and take appropriate actions. Designer agrees that prior to using or distributing any systems that include TI products, Designer will thoroughly test such systems and the functionality of such TI products as used in such systems. Designer may not use any TI products in life-critical medical equipment unless authorized officers of the parties have executed a special contract specifically governing such use. Life-critical medical equipment is medical equipment where failure of such equipment would cause serious bodily injury or death (e.g., life support, pacemakers, defibrillators, heart pumps, neurostimulators, and implantables). Such equipment includes, without limitation, all medical devices identified by the U.S. Food and Drug Administration as Class III devices and equivalent classifications outside the U.S.

Designers are authorized to use, copy and modify any individual TI reference design only in connection with the development of end products that include the TI product(s) identified in that reference design. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT OF TI OR ANY THIRD PARTY IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI products or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of the reference design or other items described above may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI REFERENCE DESIGNS AND OTHER ITEMS DESCRIBED ABOVE ARE PROVIDED "AS IS" AND WITH ALL FAULTS. TI DISCLAIMS ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, REGARDING THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, INCLUDING BUT NOT LIMITED TO ACCURACY OR COMPLETENESS, TITLE, ANY EPIDEMIC FAILURE WARRANTY AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY DESIGNERS AGAINST ANY CLAIM, INCLUDING BUT NOT LIMITED TO ANY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON ANY COMBINATION OF PRODUCTS AS DESCRIBED IN A TI REFERENCE DESIGN OR OTHERWISE. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, DIRECT, SPECIAL, COLLATERAL, INDIRECT, PUNITIVE, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES IN CONNECTION WITH OR ARISING OUT OF THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, AND REGARDLESS OF WHETHER TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

TI's standard terms of sale for semiconductor products (<http://www.ti.com/sc/docs/stdterms.htm>) apply to the sale of packaged integrated circuit products. Additional terms may apply to the use or sale of other types of TI products and services.

Designer will fully indemnify TI and its representatives against any damages, costs, losses, and/or liabilities arising out of Designer's non-compliance with the terms and provisions of this Notice.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
Copyright © 2016, Texas Instruments Incorporated