

ADC12D1800RB BOM REV B - BOM VARIANT -004

Item	Quantity	Reference	Note	Part	Part Number	Manufacturer	Foot Print
1	10	LD11,RCOUT1/2_ENABLED,TRIGGER_A RMED,OVER-RANGE_Q-CH,OVER- RANGE_I- CH,FPGA_OPERATIONAL,ECM_ENABLE D,DCLK_LOCKED,ADC_POWER,ADC_CAL IBRATION		GREEN	SML-LX1206GC-TR	Lumex	r1206
2	1	C1_LF		1000pF	GRM155R71H102KA01D	Murata	R0402_NO_SS
3	68	C1,C2,C3,C4,C5,C6,C7,C18,C19,C20,C21, C22,C23,C24,C26,C27,C28,C29,C30,C34, C35,C36,C37,C38,C39,C40,C41,C47,C48, C52,C54,C55,C56,C57,C58,C59,C60,C61, C62,C66,C68,C72,C73,C79,C201,C235,C 238,C249,C250,C251,C252,C254,C255,C 256,C257,C258,C259,C261,C262,C263,C 264,C265,C268,C325,C326,C327,C362,C		100n	0402ZD104KAT2A	AVX Corporation	c0402
4	1	C2_LF		0.047uF	C0603C473J4RACTU	Kemet	c0603
5	6	C25,C46,C49,C260,C364,C365		100n	0402ZD104KAT2A	AVX Corporation	c0402_no_ss
6	1	C63		0.001uF	GRM1885C1H102JA01D	Murata	c0603
7	1	C64		2.2uF	T491A225K010AT	Kemet	c3216
8	4	C65,C202,C245,C246		10n	C1005X7R1E103K	TDK Corporation	c0402
9	11	C67,C74,C78,C136,C162,C163,C166,C17 1,C172,C173,C174		100n	C1608X7R1C104K	TDK Corporation	c0603
10	1	C69		4.7n	C1206C472K5RACTU	Kemet	c1206
11	2	C70,C71		12pF	C1206C120J5GACTU	Kemet	c1206
12	4	C75,C76,C77,C206		100p	C0402C101J5GACTU	Kemet	c0402
13	58	C80,C82,C84,C86,C88,C89,C90,C91,C92, C94,C95,C96,C99,C100,C101,C102,C103 ,C104,C105,C108,C109,C110,C111,C114 ,C115,C116,C117,C118,C120,C121,C122 ,C123,C124,C128,C129,C130,C131,C132 ,C134,C135,C277,C278,C279,C280,C281 ,C282,C286,C291,C299,C300,C301,C302 ,C303,C304,C305,C306,C307,C308		10n	C1005X7R1E103K	TDK Corporation	c0402_no_ss

		C81,C83,C85,C87,C93,C97,C98,C106,C107,C119,C125,C126,C253,C271,C273,C283,C284,C285,C292,C295,C297,C309,C310,C311,C312,C313,C314,C315,C316,C317					
14	30	17		100n	ECJ-0EB1A104K	Panasonic	c0402_no_ss
15	6	C137,C139,C140,C149,C155,C156		100n	ECJ-1VB1C104K	Panasonic	c0603
16	4	C138,C144,C145,C153		100pF	ECJ-1VC1H101J	Panasonic	c0603
17	2	C142,C147		0.47uF	C0603C474K4RACTU	Kemet	c0603
18	1	C143		10n	ECJ-1VB1C103K	Panasonic	c0603
19	1	C154		4.7uF	ECJ-1VC1H101J	Panasonic	c0603
20	1	C157		100uF	EMVY250ADA101MF80G	United Chemi-Con	c6p6mmx6p6mm
21	3	C158,C159,C270		4.7uF	TMK325B7475KN-T	Taiyo Yuden	c1210
22	5	C160,C180,C192,C207,C228		10u	C2012X5R1E106M	TDK	c0805
23	1	C161		0.22uF	C1005X5R1E224M	TDK Corporation	c0402
24	25	C164,C165,C167,C170,C175,C176,C183,C184,C185,C188,C195,C196,C197,C210,C212,C214,C216,C219,C222,C224,C226,C231,C233,C244,C267		0.1u	ECJ-0EB1A104K	Panasonic	c0402
25	19	C168,C169,C182,C198,C209,C211,C213,C215,C217,C221,C223,C225,C230,C232,C239,C241,C242,C243,C248		10u	C2012X5R0J106M/1.25	TDK	c0805
26	2	C177,C191		1u	C0402C105K9PACTU	Kemet	c0402
27	2	C178,C179		27nF	0402ZC273KAT2A	AVX Corporation	c0402
28	4	C181,C193,C208,C229		0.1u	TMK105BJ104KV-F	Taiyo Yuden	c0402
29	7	C186,C205,C218,C220,C227,C234,C266		0.01u	C0402C103K4RACTU	Kemet	c0402
30	1	C187		10uF	C4532X5R1E106M	TDK Corporation	1812
31	1	C189		0.1u	ECJ-0EB1A104K	Panasonic	c0402
32	1	C190		1uF	C0603C105K8PACTU	Kemet	C0603
33	1	C194		270u	APXA100ARA271MJ80G	United Chemi-Con	c10p3mmx10p3mm
34	1	C236		2.2n	C0402C222K3RACTU	Kemet	c0402
35	1	C237		1u	C2012X5R1A105K/0.85	TDK	c0805
36	1	C240		1uF	ECJ-1VB1C105K	Panasonic	c0603
37	1	C247		1800pF	06035C182KAT2A	AVX Corporation	c0603
38	1	C269		0.1uF	C0805C104K3RACTU	Kemet	c0805
39	8	C272,C274,C275,C287,C288,C293,C296,C324		1u	C0402C105K9PACTU	Kemet	c0402_no_ss
40	4	C276,C290,C294,C322		470u	TAJC477K004RNJ	AVX Corporation	cap_c-case
41	1	C321		100p	0402ZD104KAT2A	AVX Corporation	R0402_NO_SS

42	0	C323	DNI	NA			c0603
43	2	C341,C342		4.7n	C0402C472K3RACTU	Kemet	c0402_no_ss
43a	1	C343		10p	GRM1555C1H100GA01D	Murata	c0402_no_ss
44	0	RCOUT1-,RCOUT1+,RCLK-,RCLK+,DCLKQ-,DCLKQ+	DNI	SMA_CONN_2	LTI-SASF546-P26-X1	Lighthouse Technologies	SMA_V_CLR
45	2	D1,D5		DIODE SCHOTTKY	MBR0540	Micro Commercial Co	SOD_123_21
46	3	D2,D3,D4		DIODE SCHOTTKY	MBRS320T3G	On Semiconductor	DO214_AB
47	1	FMC		ASP-134488-01_0	ASP-134488-01	Samtec Inc	conn_SEAM_040
48	7	MT1,FMC1,MT2,FMC2,MT3,MT4,MT5		TP			VIA85D55
49	5	H2,H3,H4,H5,H6		Rubber Feet	SJ-5027 (BLACK)	3M	
50	1	J2		USB-B	897-43-004-90-000000	Mill-Max	usb-jack-b
51	1	J4		HEADER 10x3	HTSW-110-07-G-T	Samtec Inc	blkcon_10x3
52	4	J5,J155,J156,J157		HEADER 2	PEC36SAAN	Sullins Connector Solutions	BLKCON_2X1
53	1	J6		CONN 6 PIN SINGLE ROW	PEC36SAAN	Sullins Connector Solutions	SHDR6X1
54	7	J7,J8,J9,J10,J19,J26,J163		sma-3	142-0701-851	Emerson Network Power Connectivity Solutions	RF_SMA_END_LAUNCH
55	1	J12		CONN PWR JACK	PJ-102AH	CUI Inc	JACK_POWER
56	1	J13		HEADER 3	PEC36SAAN	Sullins Connector Solutions	blkcon_3x1
57	1	J14		JUMPER2	PEC36DAAN	Sullins Connector Solutions	blkcon_3x2
58	4	J15,J17,J18,J44		CONN 10 PIN	PEC36DAAN	Sullins Connector Solutions	th_10_hdr2x5_m_str_100
59	0	J20	DNI	JUMPER 2X1	PEC36SAAN	Sullins Connector Solutions	th_2_hdr1x2_m_str_100
60	2	J21,J22		JUMPER1	PEC36SAAN	Sullins Connector Solutions	blkcon_2x1
61	1	J23		JUMPER5	PEC36DAAN	Sullins Connector Solutions	blkcon_5x2
62	1	J25		HEADER 3X2	PEC36DAAN	Sullins Connector Solutions	blkcon_3x2
63	0	J27,J28,J29,J30,J31,J32	DNI	NA	-	-	RF_SMA_END_LAUNCH
64	0	J34,J35,J36,J37,J38,J39,J40,J41,J42,J43	DNI	jumper/sm/small			sm_jumper
65	5	J158,J159,J160,J161,J162		JUMPER1	PEC36SAAN	Sullins	blkcon_2x1
66	21	J4_2_3,J4_5_6,J4_8_9,J14_1_2,J14_3_4,J14_5_6,J21_1_2,J22_1_2,J23_1_2,J23_3_4,J23_5_6,J23_7_8,J156_1_2,J157_1_2,J158_1_2,J159_1_2,J160_1_2,J161_1_2,J162_1_2,J23_9_10,J4_20_21		SHUNT	382811-6	TE Connectivity	
67	1	LD10		RED	SML-LX1206IC-TR	Lumex	r1206

68	1	L1		100MHz CHOKE	BLM31PG121SN1L	Murata	r1206
69	1	L2		INDUCTOR FERRITE/SM	BLM18SG121TN1D	Murata Electronics North America	r0603
70	2	L3,L13		INDUCTOR FERRITE/SM	BLM18SG331TN1D	Murata Electronics North America	r0603
71	1	L4		INDUCTOR FERRITE/SM	BLM18SG260TN1D	Murata Electronics North America	r0603
72	4	L5,L6,L7,L10		10uH	MSS1246-103ML	Coilcraft	EIA_481
73	2	L8,L14		INDUCTOR FERRITE/SM	BLM18SG260TN1	Murata Electronics North America	r0603
74	1	L9		CM CHOKE	CM2545X171B-10	Laird-Signal Integrity Products	choke_cm2545-b
75	2	L11,L12		INDUCTOR FERRITE/SM	BLM18SG331TN1	Murata Electronics North America	r0603
76	1	R2_LF		560	ERJ-2RKF5600X	Panasonic	R0402_NO_SS
77	15	R2,R3,R4,R5,R6,R8,R9,R13,R14,R16,R17 ,R25, R69 ,R127,R128		49.9	ERJ-3EKF49R9V	Panasonic	r0603
78	2	R7,R12		3.3k	ERA-3YEB332V	Panasonic	r0603
79	2	R15,R34		4.7K	ERJ-3GEYJ472V	Panasonic	r0603
80	1	R18		47K	ERJ-8ENF4702V	Panasonic	r1206
81	2	R19,R21		2.2K	ERJ-8GEYJ222V	Panasonic	r1206
82	1	R20		0	ERJ-3GEY0R00V	Panasonic	0603_TRIPAD_2_to_3
83	5	R22,R31,R43, R65 ,R126		0	ERJ-3GEY0R00V	Panasonic	r0603
84	20	R23,R26,R27,R28,R32,R33,R35,R36,R37 ,R44,R45,R46,R59,R86,R87,R104,R113, R114,R155,R156		10k	ERJ-3GEYJ103V	Panasonic	r0603
85	1	R24		1M	ERJ-8GEYJ105V	Panasonic	r1206
86	11	R29,R47,R48,R49,R50,R51,R52,R54,R55 ,R115,R142		330	ERJ-3GEYJ331V	Panasonic	r0603
87	4	R30,R39,R41,R42		100	ERJ-3GEYJ101V	Panasonic	r0603
88	1	R38		0	ERJ-3GEY0R00V	Panasonic	0603_TRIPAD_1_to_2
89	1	R40		10K	ERJ-3GEYJ103V	Panasonic	0603_TRIPAD_1_to_2
90	5	R53,R129,R131,R134,R136		33	ERJ-3GEYJ330V	Panasonic	r0603
91	5	R58,R93,R111,R117,R124		1k	ERJ-3GEYJ102V	Panasonic	r0603
92	1	R66		33	ERJ-3GEYJ180V	Panasonic	r0603
93	1	R67		150	ERJ-3GEYJ681V	Panasonic	r0603
94	1	R68		150	ERJ-3GEYJ271V	Panasonic	r0603

95	2	R70,R71		0	ERJ-3GEYJ103V	Panasonic	r0603
96	0	R73	DNI	DNP			R0402_NO_SS
97	1	R78		3.3	ERJ-3GEYJ180V	Panasonic	r0603
98	0	R81,R84,R105,R133	DNI	NA			r0603
99	1	R82		10	ERJ-3GEYJ100V	Panasonic	r0603
100	0	R83	DNI	NA			0603_TRIPAD
101	1	R85		3.3K	ERJ-3GEYJ332V	Panasonic	r0603
102	1	R88		26.7k	ERJ-1GEF2672C	Panasonic	r0603
103	2	R89,R90		5.9k	RT0603DRD075K9L	Yageo	r0603
104	1	R91		18.7k	ERJ-3EKF1872V	Panasonic	r0603
105	1	R92		205k	ERJ-3EKF2053V	Panasonic	r0603
106	1	R94		15k	ERJ-3GEYJ153V	Panasonic	r0603
107	1	R95		30k	ERJ-3GEYJ303V	Panasonic	r0603
108	2	R96,R110		5.1k	ERJ-3GEYJ512V	Panasonic	r0603
109	1	R97		2.2k	ERJ-3GEYJ222V	Panasonic	r0603
110	1	R98		1.8k	ERJ-3GEYJ182V	Panasonic	r0603
111	1	R99		1.2K	ERJ-8GEYJ122V	Panasonic - ECG	r1206
112	1	R103		47.5k	ERJ-3EKF4752V	Panasonic	r0603
113	1	R106		7.87K	ERJ-3EKF7871V	Panasonic	r0603
114	1	R107		10K	ERJ-3EKF1002V	Panasonic	r0603
115	1	R108		20k	ERJ-3EKF2002V	Panasonic	r0603
116	1	R109		1.3k	ERJ-3GEYJ132V	Panasonic	r0603
117	2	R112,R118		2.4k	ERJ-3GEYJ242V	Panasonic	r0603
118	3	R120,R121,R122		22k	ERJ-3GEYJ223V	Panasonic	r0603
119	1	R125		2k	ERJ-3EKF2371V	Panasonic	r0603
120	4	R130,R132,R135,R137		95.3	ERJ-3EKF95R3V	Panasonic	r0603
121	0	R145,R147	DNI	NA			r0402_no_ss
122	1	R149		2.32K	ERJ-3EKF2321V	Panasonic	r0603
123	1	R150		806	ERJ-3EKF8060V	Panasonic	r0603
124	4	R159,R160,R161,R162		0	CRCW04020000Z0ED	Panasonic	0402_TRIPAD_1_to_2
125	1	R180		0	CRCW04020000Z0ED	Panasonic	0402_TRIPAD_2_to_3
126	1	R195	18 ohm on old BOM	0	ERJ-2GEJ180X	Panasonic	R0402_NO_SS
127	0	R196,R197	DNI	DNP	ERJ-2GEJ331X	Panasonic	R0402_NO_SS
128	0	R203,R206,R209,R212,R215,R218,R221,R224	DNI	100	ERJ-2RKF1000X	Panasonic	r0402_no_ss

129	0	R204,R205,R207,R208,R210,R211,R213,R214,R216,R217,R219,R220,R222,R223,R225,R226	DNI	1000	ERJ-2RKF1001X	Panasonic	r0402_no_ss
130	1	SW1		RESET	PTS635SL50	ITT Industries/C&K Div	sw_2p_6x3p5
131	1	SW2		ROCKER	7101J1AQE2	ITT Industries/C&K Div	SW_TH_RA_7101
132	0	TP1	DNI	TP_VBG			tp_smd_s35x28
133	0	TP2	DNI	TP_CY_CLK			tp_smd_s35x28
134	0	TP3	DNI	TP_DCLK_RST_N			tp_smd_s35x28
135	0	TP4	DNI	TP_DCLK_RST_P			tp_smd_s35x28
136	6	TP6,TP7,TP8,TP9,TP10,TP11		TP	5001	Keystone	tp40
136a	1	TP5	Single pin square post header; shunt to pin 9 of J15	HEADER 1X1			tp40
137	0	TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP24	DNI	TP	N/A	N/A	tp40
138	1	T2		B0430J50100AHF	B0430J50100AHF	Anaren	soic6_026_wg049_L079
139	1	U1		ADC1xDxxxxRFIUT/ NOPB	ADC12D1800CIUT/NOPB	Texas Instruments	SOCKET_BGA_05_292_B025
140	1	U2		Cypress CY7C68013A-128AXC	CY7C68013A-128AXC	Cypress	128tqfp
141	1	U3		LM3724	LM3724IM5-3.08/NOPB	Texas Instruments	SOT23-stx
142	1	U4		24C02	AT24C02C-SSHM	Atmel	soic8
143	1	U5		XC4VLX25-11FFG668	XC4VLX25-11FFG668	Xilinx	bga_668_27x27_1p0
144	0	U6,U7	DNI	NA			sm_7pin_ftr
145	1	U8		LM95233	LM95233CISD/NOPB	Texas Instruments	LLP14_p5mm_4x4_ep
146	1	U12		LMX2531LQ1xxxE	LMX2531LQ1778E	Texas Instruments	LLP39_p5mm_6X6
147	1	U13		LM26400	LM26400YMH/NOPB	Texas Instruments	TSSOP16_65M_WG6P4_L5
148	0	U14	DNI	XCF08P_VO48	XCF08P VO48 C	Xilinx	TSSOP48_50M_WG20_L12
149	5	U15,U18,U19,U20,U22		LP3878SD	LP3878MR-ADJ/NOPB	Texas Instruments	SOIC8_050_WG244_L20_0_EP

150	1	U16		LM25576	LM25576MHX/NOPB	Texas Instruments	TSSOP20_65M_WG6P4_L6P5_EP
151	1	U17		LP38513-ADJ	LP38513TJ-ADJ/NOPB	Texas Instruments	SC-MKT-TJ5A
152	1	U21		LM3880	LM3880MF-1AB/NOPB	Texas Instruments	SOT_23_6
153	1	U23		LM20242	LM20242MH/NOPB	Texas Instruments	TSSOP20_65M_WG6P4_L6P5_EP
154	2	U24,U25		MC100EP16	MC100EP16DTG	On Semiconductor	TSSOP8_65M_WG4P9_L3
155	1	U29		LP2992IM5-5.0	LP2992IM5-5.0/NOPB	Texas Instruments	SC-MKT-MF05A
156	1	Y1		XTAL 24MHz	ECS-240-12-4X	ECS Inc.	hc49us
157	1	Y2		OSC 100MHz	SM7745DSV-100.00M	Pletronics	osc_100m_5x7
158	1	Y3		CLK_OSC 60MHz	SM7744HV-60.0M	Pletronics	osc_100m_5x7

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Buyers") who are developing systems that incorporate TI semiconductor products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products.

TI reference designs have been created using standard laboratory conditions and engineering practices. **TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.** TI may make corrections, enhancements, improvements and other changes to its reference designs.

Buyers are authorized to use TI reference designs with the TI component(s) identified in each particular reference design and to modify the reference design in the development of their end products. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, 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 components 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 such information 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 ARE PROVIDED "AS IS". TI MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. TI DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO TI REFERENCE DESIGNS OR USE THEREOF. TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY BUYERS AGAINST ANY THIRD PARTY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON A COMBINATION OF COMPONENTS PROVIDED IN A TI REFERENCE DESIGN. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, HOWEVER CAUSED, ON ANY THEORY OF LIABILITY AND WHETHER OR NOT TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, ARISING IN ANY WAY OUT OF TI REFERENCE DESIGNS OR BUYER'S USE OF TI REFERENCE DESIGNS.

TI reserves the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques for TI components are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

Reproduction of significant portions of TI information in TI data books, data sheets or reference designs is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous failures, monitor failures and their consequences, lessen the likelihood of dangerous failures and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in Buyer's safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed an agreement specifically governing such use.

Only those TI components that TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components that have **not** been so designated is solely at Buyer's risk, and Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.