

National Semiconductor Corporation

ADC10D1500 Eval Board
Assembly Part Number : 980600479-200
Revision : B

Bill of Materials

Item	Ref Designator	Part Description	Manufacturer	Part Number	Value	Footprint	Qty	RoHS	Digi-Key P/N	Sec. Dist.	Sec. Dist. P/N	Alt. Manufacturer	Alt. P/N	Alt. Desc	Alt. DK	Link	Alt. Manufacturer Alt. P/N (Alt. Desc)
1		Blank Board		551600479-002 REV B			1										
2	U1	ADC10D1500 socket_bga_05_292_b025	National Semiconductor	ADC10D1500CIUT/NOPB			1			Interco							
3	U2	CY7C68013A-128AXC 128tqfp	Cypress	CY7C68013A-128AXC			1		CY7C68013A-128AXC								
4	U3	LM3724EM5-3.08/NOPB	National Semiconductor	LM3724EM5-3.08/NOPB			1			Interco							
5	U4	24C02 soic8	Atmel	AT24C02BN-10SU-1.8			1		AT24C02BN-10SU-1.8-ND								
6	U5	XC4VLX25-11FFG668 bga_668_27x27_1p0	Xilinx	XC4VLX25-11FFG668C			1		XC4VLX25-11FFG668C	Nu-Horizons							
7	U8	LM95233CISD/NOPB LLP14_p5mm_4x4_ep	National Semiconductor	LM95233CISD/NOPB			1			Interco							
8	U12	LMX2531LQ1500E/NOPB LLP36_p5mm_6x6	National Semiconductor	LMX2531LQ1500E/NOPB			1			Interco							
9	U13	LM26400YMH/NOPB Dual 2A TSSOP16_65M_WG6P4_L5	National Semiconductor	LM26400YMH/NOPB			1			Interco							
10	U14	NO LOAD	NO LOAD	NO LOAD			0		NO LOAD			Xilinx	XCF08P VO48 C (122-1454-5-ND)				
11	U15, U18, U19, U20, U22	LP3878MR-ADJ/NOPB 0.8A PSOP8_050_WG244_L200_EP	National Semiconductor	LP3878MR-ADJ/NOPB			5			Interco							
12	U16	LM25576MHX/NOPB 3A TSSOP20_65M_WG6P4_L6P5_EP	National Semiconductor	LM25576MHX/NOPB			1			Interco							
13	U17	LP38853SX/NOPB 3A TO263_7p	National Semiconductor	LP38853SX/NOPB			1			Interco							
14	U21	LM3880MF-1AB/NOPB SOT_23_6	National Semiconductor	LM3880MF-1AB/NOPB			1			Interco							
15	U23	LM20242/NOPB 4A TSSOP20_65M_WG6P4_L6P5_EP	National Semiconductor	LM20242/NOPB			1			Interco							
16	U24, U25	MC100EP16DTR2G TSSOP_8	On Semiconductor	MC100EP16DTR2G			2			Newark	45J0940						
	C6, C7, C18, C19, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C34, C35, C36, C37, C38, C39, C40, C46, C47, C48, C49, C52, C54, C55, C56, C57, C58, C59, C60, C61, C62, C66, C68, C72, C79, C80, C81, C82, C83, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C96, C97, C98, C99, C100, C101, C102, C103, C104, C105, C106, C107, C108, C109, C110, C111, C114, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C127, C128, C129, C130, C131, C132, C133, C134, C135, C201, C235, C238, C161, C164, C165, C167, C170, C181, C183, C185, C187, C188, C189, C193, C195, C196, C63, C64	100n 10V 10% c0402 0.001uF 50V 5% c0603 2.2uF 10V 10% c3216	Panasonic Murata Kemet	ECJ-0EB1A104K GRM1885C1H102JA01D T491A225K010AT			131 1 1		PCC2146TR-ND 490-1451-1-ND 399-3690-1-ND								
17	C193, C195, C196,	100n 10V 10% c0402	Panasonic	ECJ-0EB1A104K			131		PCC2146TR-ND								
18	C63	0.001uF 50V 5% c0603	Murata	GRM1885C1H102JA01D			1		490-1451-1-ND								
19	C64	2.2uF 10V 10% c3216	Kemet	T491A225K010AT			1		399-3690-1-ND								
	C67, C74, C78, C136, C137, C139, C140, C149, C155, C156, C162, C163, C166, C171, C172, C173, C174	100n 16V 10% c0603	Panasonic	ECJ-1VB1C104K			17		PCC1762TR-ND								
20	C173, C174	100n 16V 10% c0603	Panasonic	ECJ-1VB1C104K			17		PCC1762TR-ND								
21	C69	4.7n 50V 10% c1206	Kemet	C1206C472K5RACTU			1		399-1230-1-ND								
22	C70, C71	12pF 50V 10% c1206	Kemet	C1206C120J5GACTU			2		399-1193-1-ND								
23	C75, C76, C77, C206 C138, C144, C145,	100p 50V 10% c0402	Panasonic	ECJ-0EC1H101J		NEW MFG P/N	4		PCC101CQCT-ND	NEW DIGIKEY P/N							
24	C153	100p 50V 5% c0603	Panasonic	ECJ-1VC1H101J			4		PCC101ACVTR-ND								
25	C141	470pF 10V 10% c0603	Panasonic	ECJ-1VC1H471J			1		PCC2147CT-ND								
26	C142, C147	0.47uF 50V 10% c0603	Kemet	C0603C474K4RACTU			2		399-4922-2-ND								
27	C143	10n 16V 10% c0603	Panasonic	ECJ-1VB1C103K			1		PCC1750TR-ND								
28	C146	470pF 50V 5% c0603	Panasonic	ECJ-1VC1H471J			1		PCC2147CT-ND								
29	C148	56nF 16V 10% c0603	Phycom (Yageo)	2238 786 15646			1			Newark	69C9559						
30	C150, C151	4.7n 25V 10% c0402_no_ss	Panasonic	ECJ-0EB1E472K			2		PCC472BQTR-ND								
31	C152	100pF 25V 10% c0402_no_ss	Panasonic	ECJ-0EC1H101J			1		PCC101CQCT-ND								
32	C154	4.7uF 6.3V 5% c0603	Panasonic	ECJ-1VB0J475M		NEW MFG P/N	1		PCC2318CT-ND	NEW DIGIKEY P/N							
33	C157	100uF 10V 20% c6p6mmx6p6mm	United Chemi-Con	EMVY100ADA101MF55G			1		565-2429-2-ND								
	C168, C169, C182, C209, C215, C223, C230, C241, C158, C159, C180, C192, C198, C200, C207, C213, C221, C228, C237, C160, C211, C225, C217, C232, C239, C242, C243 C177, C190, C191,	10u 6.3V 20% c0805	TDK	C2012X5R0J1061M			27		445-1363-2-ND								
34	C203, C240	1u 6.3V 10% c0402	Panasonic	ECJ-0EBFJ105K			5		PCC13493TR-ND								
35	C194	270u 10V 20% c10p3mmx10p3mm	United Chemi-Con	APXA100ARA271MJ80G			1		565-3069-2-ND								
36	C194	270u 10V 20% c10p3mmx10p3mm	United Chemi-Con	APXA100ARA271MJ80G			1		565-3069-2-ND								
37	C199	4.7n 25V 10% c0402	Panasonic	ECJ-0EB1E472K			1		PCC472BQTR-ND								

[illegible]

100	R125	2k 0.1W 5% r0603	Panasonic	ERJ-3GEYJ202V	1	P2.0KGTR-ND		
101	R130, R132, R135, R137	95.3 0.1W 1% r0603	Panasonic	ERJ-3EKF95R3V	4	P95.3HTR-ND		
102	R138, R139	NO LOAD	NO LOAD	NO LOAD	0	NO LOAD	Panasonic	ERJ-3GEYJ103V (P100HTR-ND)
103	SW1	RESET sw_2p_6x3p5	ITT Industries/C&K Div	PTS635SL50	1	CKN9017-ND		
104	SW2	ROCKER SW_TH_RA_7101	ITT Industries/C&K Div	7101J1AQE2	1	CKN2005-ND		
105	T1	FO-3 soic6_026_wg049_L079	Anaren	B0430J50100A00	1		Anaren	B0430J50100A00
106	Y1	XTAL 24MHz hc49us	ECS Inc.	ECS-240-12-5PX-TR	1	XC1001CT-ND		
107	Y2	OSC 100MHz osc_100m_5x7	Pletronics	SM7745DSV-100.00M	1		Pletronics	SM7745DSV-100.00M
108	Y3	OSC 60MHz SOGP200_4_WGPD280	Pletronics	SM7744HV-60.0M	1		Pletronics	SM7744HV-60.0M
109	J1, J3	HEADER 4 blkcon_4x1	Sullins	PTC36SAAN	2	S1012-36-ND		
110	J2	USB-B usb-jack-b	Mill-Max	897-43-004-90-000000	1	ED90064-ND		
111	J4	HEADER 10x3 blkcon_10x3			1			
112	J5	HEADER 6 blkcon_6x1	Sullins	PTC36SAAN	1	S1012-36-ND		
113	J6	CONN 6 PIN SING. ROW SHDR6X1	Sullins	PTC36SAAN	1	S1012-36-ND		
	J7, J8, J9, J10, J11,							
114	J19, J26	sma-3 smd_end_launch_sma	Johnson Components	142-0701-851	7	J658-ND		
115	J12	CONN PWR JACK JACK_POWER	CUI Inc	PJ-102AH	1	CP-102AH-ND		
116	J13	HEADER 3 blkcon_3x1	Sullins	PTC36SAAN	1	S1012-36-ND		
117	J14	JUMPER3 blkcon_3x2	Sullins	PTC36DAAN	1	S2012-36-ND		
118	J16, J24	CONN 38-PIN MICTOR mictor_38_vf	Tyco Electronics	5767054-1	2			
119	J15, J17, J18	CONN 10 PIN th_10_hdr2x5_m_str_100	Sullins	PTC36DAAN	3	S2012-36-ND	Arrow	5767054-1
120	J20	JUMPER 2X1 th_2_hdr1x2_m_str_100	Sullins	PTC36SAAN	1	S1012-36-ND		
121	J21, J22	JUMPER1 blkcon_2x1	Sullins	PTC36SAAN	2	S1012-36-ND		
122	J23	JUMPER5 blkcon_5x2	Sullins	PTC36DAAN	1	S2012-36-ND		
123	J25	HEADER 3X2 blkcon_3x2	Sullins	PTC36DAAN	1	S2012-36-ND		
	J27, J28, J29, J30,							
124	J31, J32	NO LOAD	NO LOAD	NO LOAD	0	NO LOAD		
125	TP1, TP2, TP3, TP4	NO LOAD [Pad on board only]	NO LOAD	NO LOAD	0	NO LOAD	Johnson Components	142-0701-851 (J658-ND)
	TP5, TP6, TP7, TP8,							
126	TP9, TP10, TP11	HDR 1X1 .100 Singl Str 36 Pos.	SULLINS ELECT	PBC36SAAN	7	S1011E-36-ND		
127	U6, U7	50MIL_7PIN_HEADER sm_7pin_ftr	Samtec	FTR-107-03-S-S	2		Samtec	FTR-107-03-S-S
128								
129								
130								

Notes:		
Rev	Date / Initials	Comment
-100A	4/15/2010, B.L.	Original Version
-200B	5/6/10 T.F.	Made the following changes per Jim Brinhurst: Bare board changed to 551600479-002 REV B R18 changed from 100k to 47k. U3 changed to LM3724EM5-3.08/NOPB