

ADC16DX370/LM97937 BOM REV A

Item	Quantity	Reference	Note	Value	Part Number	Manufacturer	Foot Print
1	1	+4V_POWER_CONNECTOR		Mating Connector for +4V	1757019	Phoenix Contact	
2	1	+4V		Terminal_Block2	1759017	Phoenix Contact	mstba_ra_200_2
3	1	+5V_POWER_CONNECTOR		Mating Connector for +5V	1757019	Phoenix Contact	
4	0	+5V	DNI	Terminal_Block2	1759017	Phoenix Contact	mstba_ra_200_2
5	0	BP2.5	DNI	HDR-1x1_0	5005	Keystone	tp_500x_50
6	0	Status_LD1,CLKin_SEL1,Status_LD2,VCMB,VCMA,CLKin_SEL0	DNI	HDR-1x1_0	-	-	tp_500x_50
7	5	VINB+,VINA-,SYSREF,EXTREF,CLK		CLK_DIFF	142-0701-851	Johnson	con_sma-edge
8	10	C1,C2,C4,C5,C183,C184,C203,C213,C222,C232		0.01u	C1005X7R1E103K050BB	TDK Corporation	C0402_NO_SS
9	0	R2,R3,C3,R5,R6,C6,R7,C7,C8,C13,C14,C15,C16,R26,R30,R34,R35,C44,C45,C50,C51,C60,R63,C63,R64,R65,R66,R74,R75,R76,C76,R77,R80,R81,R82,R83,C86,C91,R95,R96,R110,R111,R112,C153,C155,C158,C162,C167,C168	DNI	A/R	-	-	C0402_NO_SS
10	8	C9,C11,C180,C181,C204,C214,C223,C234		10u	GRM31CR61E106KA12L	Murata	smd_size1206
11	44	C10,C12,C61,C64,C66,C68,C70,C72,C75,C78,C79,C81,C84,C87,C89,C92,C95,C96,C131,C132,C133,C136,C137,C139,C140,C141,C142,C143,C144,C145,C149,C152,C154,C156,C157,C159,C165,C166,C170,C171,C172,C173,C187,C200		0.1u	GRM155R61C104KA88D	Murata Electronics North America	C0402_NO_SS
12	0	C20,C21,C22,C23	DNI	0.1u	GRM155R61C104KA88D	Murata Electronics North America	smd_size0402
13	0	C24,C26,C28,C29,C30,C31	DNI	0.1u	GRM155R61C104KA88D	Murata Electronics North America	C0402_NO_SS
14	0	C25,C27	DNI	0.01u	C1005X7R1E103K050BB	TDK Corporation	C0402_NO_SS
15	0	C40,C41,C46,C47	DNI	A/R	CBR04C509B1GAC	Kemet	C0402_NO_SS
16	0	C42,C43,C48,C49	DNI	A/R	500R07S270GV4T	Johanson Technology Inc	C0402_NO_SS
17	23	C62,C65,C67,C69,C71,C73,C74,C77,C80,C82,C85,C88,C90,C93,C94,C100,C101,C102,C103,C104,C105,C106,C107		0.01u	GRM033R71A103KA01D	Murata Electronics North America	201
18	1	C97		1u	C1220X5R1A105M085AC	TDK Corporation	508
19	16	C98,C116,C119,C201,C206,C208,C211,C216,C220,C225,C227,C230,C235,C237,C239,C241		10uF	TAJA106M016RNJ	AVX Corporation	cap_a-case
20	6	C108,C109,C110,C111,C114,C117		0.1u	GRM033R60J104KE19D	Murata Electronics North America	201
21	0	R51,C112	DNI	A/R	-	-	201
22	9	C113,C146,C147,C190,C191,C192,C193,C194,C195		0.1u	GRM155R61C104KA88D	Murata Electronics North America	smd_size0402
23	2	C115,C118		1u	C1220X5R1A105M085AC	TDK Corporation	508
24	0	C120,C121	DNI	A/R	GRM155R61C104KA88D	Murata Electronics North America	smd_size0402
25	3	C130,C135,C138		1u	C1005X5R1A105K	TDK Corporation	C0402_NO_SS
26	2	C134,C148		10u	CL21B106K0QNNNE	Samsung Electro-Mechanics America, Inc	805
27	1	C150		.022uF	C0603C223J3RACTU	Kemet	603
28	1	C151		390p	06035A391JAT2A	AVX Corporation	603
29	0	C160	DNI	8200p	C1608C0G1E822J	TDK Corporation	603
30	0	C161	DNI	0.39u	C0603C394K4RACTU	Kemet	603
31	0	C163	DNI	100p	C1608C0G1H101J	TDK Corporation	603
32	0	C164,C174	DNI	0.1u	0603YC104KAT2A	AVX Corporation	603
33	0	C169	DNI	10u	TAJA106M016RNJ	AVX Corporation	smd_size3216

34	10	C182,C207,C209,C217,C226,C228,C236,C238,C240,C242		0.1u	0603YC104KAT2A	AVX Corporation	603
35	2	C185,C186		47p	GRM1535C1H470JDD5D	Murata Electronics North America	C0402_NO_SS
36	4	C202,C212,C221,C231		1u	C1206C105K4RACTU	Kemet	smd_size1206
37	4	C205,C215,C224,C233		2.2n	CGA3E2X7R1H222K080AA	TDK Corporation	smd_size0603
38	1	C210		1uF	C1005X5R1C105K050BC	TDK	C0402_NO_SS
39	1	FMC		ASP-134488-01_0	SEAM-40-02.0-S-10-2-A-K-TR	Samtec Inc	conn_SEAM_040
40	6	GND1,GND2,GND1.2,GND1.8,GND3.0,GND		TP, BLACK	5006	Keystone	tp_500x_50
41	1	JP1	(SHUNT 1-2)	Jumper_1x3_100_430L			HDR_THVT_1x3_100_M
42	1	JP2		HDR-1x2	TSW-102-07-G-S	Samtec Inc	blkcon_2x1
43	0	J1	DNI	HDR-1x4	TSW-104-07-G-S	Samtec Inc	blkcon_4x1
44	2	J2,J3		HDR-1x4	TSW-104-07-G-S	Samtec Inc	blkcon_4x1
45	0	LMKSPI	DNI	HDR2x5	TSW-105-07-G-D	Samtec Inc	blkcon_5x2
46	3	SYSREF_SW,LMK_SYNC,LMK_RESET		PUSH_BUTTON	PTS635SK25SMTR LFS	C&K Components	evqppd
47	0	L1,L2,L3,L4	DNI	1u	0603LS-102XJLB	Coilcraft	coilcraft_size0603ls
48	0	L5,L8,L9,L12	DNI	A/R	0402HP-13NXGLU	Coilcraft	coilcraft_size0402hp
49	0	L6,L7,L10,L11	DNI	A/R	0603CS-68NXGLU	Coilcraft	coilcraft_size0603cs
50	9	L20,L21,L22,L23,L24,L25,L26,L27,L28		INDUCTOR FERRITE/SM	BLM18SG331TN1D	Murata Electronics North America	r0603
51	6	MT1,MT2,MT3,MT4,MT5,MT6		TP	-	-	VIA85D55
52	3	SYNC,OVRB/TRIGGER,OVRA/TRIGRDY		LED	LTST-C170KGKT	LITEON	LED_0805
53	3	Q2,Q3,Q4		SSM3K37MFV,L3F	SSM3K37MFV,L3F	Toshiba	sot-723
54	0	VINB-,VINA+,REFCLK	DNI	CLK_DIFF	142-0701-851	Johnson	con_sma-edge
55	9	R1,R4,R62,R72,R73,R78,R79,R94,R97		0	ERJ-2GE0R00X	Panasonic	C0402_NO_SS
56	8	R8,R9,R12,R13,R20,R21,R24,R25		0	ERJ-1GE0R00C	Panasonic	C0201_NO_SS
57	4	R10,R11,R22,R23		33, 1%	ERJ-2RKF33R0X	Panasonic - ECG	C0402_NO_SS
58	0	R14,R15,R28,R29	DNI	A/R	-	-	C0201_NO_SS
59	2	R16,R27		10	ERJ-2GEJ100X	Panasonic	C0402_NO_SS
60	0	R17	DNI	499	ERJ-2RKF4990X	Panasonic	C0402_NO_SS
61	0	R31,R40,R145	DNI	0	ERJ-2GE0R00X	Panasonic	C0402_NO_SS
62	0	R32	DNI	24k	ERJ-2GEJ243X	Panasonic Electronic Components	C0402_NO_SS
63	0	R33	DNI	10K	CRCW040210K0FKED	Vishay Dale	C0402_NO_SS
64	0	R36,R37,R38,R39	DNI	39, 1%	ERJ-2RKF39R0X	Panasonic	C0402_NO_SS
65	1	R50		100	ERJ-1GEF1000C	Panasonic Electronic Components	201
66	12	R52,R55,R56,R60,R61,R67,R121,R122,R123,R124,R125,R159		10K	CRCW040210K0FKED	Vishay Dale	C0402_NO_SS
67	21	R53,R54,R126,R127,R128,R129,R130,R131,R132,R133,R134,R135,R136,R137,R138,R139,R140,R141,R142,R143,R144		22	ERJ-2RKF22R0X	Panasonic Electronic Components	C0402_NO_SS
68	3	R57,R58,R68		56	ERJ-2GEJ560X	Panasonic - ECG	smd_size0402
69	3	R69,R119,R120		0	ERJ-3GEY0R00V	Panasonic Electronic Components	603
70	0	R70	DNI	100	ERJ-2RKF1000X	Panasonic - ECG	C0402_NO_SS
71	1	R71		100	ERJ-2RKF1000X	Panasonic - ECG	C0402_NO_SS
72	4	R90,R91,R92,R93		121	CRCW0402121RFKED	Vishay Dale	C0402_NO_SS
73	9	R98,R99,R160,R163,R167,R168,R171,R175,R178		1k	ERJ-2RKF1001X	Panasonic - ECG	smd_size0402
74	1	R100		470	RC0603FR-07470RL	Yageo	603
75	0	R101,R102	DNI	A/R	CRCW0402200RFKED	Vishay Dale	C0402_NO_SS
76	0	R103	DNI	0	ERJ-3GEY0R00V	Panasonic Electronic Components	603
77	0	R104	DNI	3.30k	RC0603FR-073K3L	Yageo	603
78	1	R107		49.9	ERJ-2RKF49R9X	Panasonic - ECG	C0402_NO_SS
79	2	R108,R109		200	CRCW0402200RFKED	Vishay Dale	C0402_NO_SS
80	0	R146,R148,R150,R153,R155	DNI	24k	CRCW040224K0JNED	Vishay Dale	smd_size0402
81	0	R147,R149,R151,R152,R156	DNI	15k	ERJ-2RKF1502X	Panasonic Electronic Components	smd_size0402

82	0	R161,R165,R169,R176,R235,R236	DNI	A/R	-	-	smd_size0402
83	1	R162		200	CRCW0402200RFKED	Vishay Dale	smd_size0402
84	1	R164		10K	CRCW040210K0FKED	Vishay Dale	smd_size0402
85	1	R166		806	ERJ-2RKF8060X	Panasonic - ECG	smd_size0402
86	1	R170		2.10K	CRCW04022K10FKED	Vishay Dale	smd_size0402
87	1	R177		2.32K	CRCW04022K32FKED	Vishay Dale	smd_size0402
88	0	R179,R180,R181	DNI	A/R	-	-	603
89	2	R217,R218		300	ERJ-2RKF3000X	Panasonic Electronic Components	402
90	1	R219		75	ERJ-2RKF75R0X	Panasonic Electronic Components	402
91	3	R220,R221,R234		0	RC0402JR-070RL	Yageo	C0402_NO_SS
92	4	SCREW1,SCREW2,SCREW3,SCREW4	MP2	Screw for Standoff	PMSSS 440 0075 PH	BUILDING FASTENERS	
93	4	STANDOFF1,STANDOFF2,STANDOFF3,STANDOFF4	MP3	Board Standoff	1648-440-AL	RAF Electronic Hardware	
94	6	T1,T2,T3,T4,T6,T7		MABA-007159-000000	MABA-007159-000000	M/A-COM Technology Solutions	MABA-007159-000000
95	0	T5	DNI	ADT2-1T-1P+	ADT2-1T-1P+	Mini-Circuits	ADT1-1WT
96	0	T8,T9	DNI	TCM4-19+	TCM4-19+	Mini-Circuits	db714
97	1	USB		USB_MINI_AB_MNE20-5G5P10	6.51305E+11	Wurth Electronics Inc	CON_SMRT_USBMNE20_F
98	0	U3	DNI	LMH6521	LMH6521SQE/NOPB	Texas Instruments	32LLP_SQA32A
99	1	U6		FT245RL	FT245RL-REEL	FTDI, Future Technology Devices International Ltd	FT245RL
100	1	U7		LP5900SD-1.8/NOPB	LP5900SD-1.8/NOPB	Texas Instruments	sc-mkt-sdb06a_6llp
101	4	U8,U9,U10,U11		LP3878-ADJ	LP3878SD-ADJ/NOPB	Texas Instruments	sc-mkt-sdc08a_llp
102	1	U12		ADC16DX370 or LM97937	ADC16DX370RMET or LM97937RMET	Texas Instruments	qfn56_0p5
103	1	U13		LMK04828BISQ	LMK04828BISQ	Texas Instrument	sc-mkt-sqa64a
104	3	U14,U15,U16		SN74AVC4T774	SN74AVC4T774PWR	Texas Instruments	tsop16_pw
105	0	VSP1.8,VA3.0_LED,V_XO3P3,V_VCXO3p3,VLMK3p3,VAMP	DNI	TP, RED	5005	Keystone	tp_500x_50
106	4	VD1p2,VA1p2,VA1p8,VA3.0		TP, RED	5005	Keystone	tp_500x_50
107	0	Y1	DNI	CCHD-950-61.44	CCHD-950-25-61.440	Crystek Corporation	soic6_100_wg272_I560
108	0	Y2	DNI	CWX823-012.288M	CWX823-012.288M	Connor-Winfield	CWX813
109	0	Y3	DNI	CVHD-950-122.88	CVHD-950-122.880	Crystek Corporation	soic6_100_wg272_I560
110	1	Z_SH-H12	SHUNT FOR HEADER	SHUNT-HEADER			
111	12	Z1,Z2,Z3,Z4,Z6,Z7,Z9,Z11,Z12,Z13,Z14,Z17		NFM41PC204F1H3	NFM41PC204F1H3L	Murata Electronics North America	nfm41p

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