

BILL OF MATERIAL

Company Name: ANALOG DEVICES,
 PCB Assy Number: PLC-DEMO
 BOM Number: PLC-DEMO
 BOM Description: PLC-DEMO
 BOM Revision: A ver3 (item 79 updated)
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Item#	Farnell PN	Quantity	Vendor	MPN	Description	Package	Designator
1	1414666	2	KEMET	C0805C120J5GAC	CAP-FXD 12pF +-5pct 50V CER C0G 0805	C0805	C24, C25
2	1650746	8	JOHANSON TECHNOLOG	251R14S101GV4T	CAP-FXD 100pF +-2PCT 50V CER C0G 0603	C0603	CA3, CA28, CB3, CB28, CC4, CC6, CD4, CD6
3	430985	4	PHYCOMP (YAGEO)	2238 867 15471	CAP-FXD 470pF +-5PCT 50V CER C0G 0603	C0603	CA6, CB6, CC30, CD30
4	1650860	8	KEMET	C0805C102K5RAC-TU	CAP-FXD 1nF +-10pct 50V CER X7R 0805	C0805	CA1, CB1, CC1, CD1, CE12, CF12, CG11, CH11
5	8819939	2	MURATA	GRM1885C1H152JA01D	CAP-FXD 1.5nF +-5pct 50V CER C0G 0805	C0603	CA29, CB29
6	1535565	2	KEMET	C0603C222J5GAC 7867	CAP-FXD 2.2nF +-5pct 50V CER C0G 0805	C0603	CC31, CD31
7	1650876	4	KEMET	C0805C392K5RAC-TU	CAP-FXD 4nF +-10PCT 50V CER X7R 0805	C0805	CE3, CF3, CG3, CH3
8	1650861	17	KEMET	C0805C103J5RAC-TU	CAP-FXD 10nF +-5pct 50V CER X7R 0805	C0805	C10, CA18, CA19, CA20, CA21, CB18, CB19, CB20, CB21, CC20, CC21, CC22, CC23, CD20, CD21, CD22, CD23
9	1414682	4	KEMET	C0805C223K5RAC	CAP-FXD 22nF +-10PCT 50V CER X7R 0805	C0805	CE4, CF4, CG13, CH13
10	1414663	8	KEMET	C0805C104J5RAC	CAP-FXD 100nF +-5PCT 50V CER X7R 0805	C0805	CA16, CA17, CB16, CB17, CC18, CC19, CD18, CD19
11	1288255	2	KEMET	C0603C104K5RAC	CAP-FXD 0.1uF +-10PCT 50V CER X7R 0603	C0603	CA10, CB10
12	8820120	83	MURATA	GRM21BR71H104KA01L	CAP-FXD 0.1uF +-10PCT 50V CER X7R 0805	C0805	C5, C7, C9, C12, C13, C14, C15, C17, C18, C21, C26, C28, C29, CA9, CA11, CA12, CA13, CA14, CA15, CA22, CA23, CA24, CA25, CA26, CB9, CB11, CB12, CB13, CB14, CB15, CB22, CB23, CB24, CB25, CB26, CC3, CC10, CC14, CC15, CC16, CC17, CC24, CC26, CC27, CC28, CD3, CD10, CD14, CD15, CD16, CD17, CD24, CD26, CD27, CD28, CE2, CE7, CE8, CE11, CE13, CE15, CF2, CF7, CF8, CF11, CF13, CF15, CG2, CG6, CG8, CG10, CG12, CG15, CG18, CG19, CH2, CH6, CH8, CH10, CH12, CH15, CH18, CH19
13	1650878	21	KEMET	C0805C474K5RAC-TU	CAP-FXD 0.47uF +-10pct 50V CER X7R 0805	C0805	C16, C19, C20, CC8, CC9, CC11, CD8, CD9, CD11, CE1, CE5, CE6, CF1, CF5, CF6, CG1, CG4, CG5, CH1, CH4, CH5
14	1611974	4	TAIYO YUDEN	TMK212BJ225KG-T	CAP-FXD 2.2uF +-10PCT 25V CER X5R 0805	C0805	CC5, CC12, CD5, CD12
15	1414067	4	KEMET	C1210X475K5RAC	CAP-FXD 4.7uF +-10PCT 50V CER X7R 1210	C1210	CE14, CF14, CG14, CH14
16	9402217	33	PHYCOMP (YAGEO)	222291213676	CAP-FXD 10uF +-10pct 25V CER X5R 1210	C1210/B	C11, C22, C23, CA2, CA4, CA5, CA7, CA8, CB2, CB4, CB5, CB7, CB8, CC2, CC7, CC25, CC29, CD2, CD7, CD25, CD29, CE9, CE10, CF9, CF10, CG7, CG9, CG16, CG17, CH7, CH9, CH16, CH17
17	1463413	5	TAIYO YUDEN	JMK316BJ476ML	CAP-FXD 47uF +-20PCT 6.3V CER X5R 1206	C1206/B	C6, C8, C27, CA27, CB27
18	9692983	1	PANASONIC	ECA1HHG331	CAP-FXD 330uF +-20PCT 50V AL ELECTROLYTIC RADIAL	RB.4/2	C4
19	1288230	4	KEMET	C330C102JHR5CA	CAP-FXD 1nF +-5pct 3KV CER X7R RADIAL	CAP-7.0	CA30, CA31, CB30, CB31
20	1100526	3	AVX	SR211C153KTR	CAP-FXD 15nF +-10pct 275V CER C0G RADIAL	CAPR5-4X5	C1, C2, C3
21	8819980	6	MURATA	GRM188R71H103KA01D	CAP-FXD 10nF +-10pct 50V CER X7R 0603 (added at pins, see layout.)	C0603	C32, C33, CA32, CA33, CB32, CB33
22	1469739	2	VISHAY DRALORIC	CRCW06030000Z0EA	RES-FXD 0 OHM +-1pct .1W TF TC=0+-100	R0603	RA19, RB19
23	1469846	8	VISHAY DRALORIC	CRCW08050000Z0EA	RES-FXD 0 OHM +-1pct .125W TF TC=0+-100	R0805	RA15, RA16, RB15, RB16, RC16, RC17, RD16, RD17
24	9332421	10	MULTICOMP	MC 0.1W 0805 1% 10R	RES-FXD 10 OHM +-1pct .1W TF TC=0+-200	R0805	RA5, RA17, RA18, RB5, RB17, RB18, RE4, RF4, RG4, RH4
25	9333312	2	MULTICOMP	MC 0.1W 0805 1% 510R	RES-FXD 510R +-1pct .1W TF TC=0+-100	R0805	R10, R11
26	9333045	12	MULTICOMP	MC 0.1W 0805 1% 3K3	RES-FXD 3K3 +-1% 0.1W TKF TC=0+-100	R0805	RC7, RC8, RD7, RD8, RE5, RE6, RF5, RF6, RG5, RG6, RH5, RH6
27	1612522	8	BOURNS	CR0805-FX-1002ELF	RES-FXD 10K +-1pct .125W TF TC=0+-100	R0805	R5, R6, R7, R8, RA14, RB14, RC13, RD13
28	9234853	3	PHYCOMP (YAGEO)	235002411003	NET-RES 4 10K +-1pct 8-PIN 0.063W TC=0+-100	RCA03-4D	RN1, RN2, RN3
29	9332413	2	MULTICOMP	MC 0.1W 0805 1% 1M	RES-FXD 1MEG +-1% 0.1W TKF TC=0+-100	R0805	RA7, RB7
30	1761127	4	VISHAY	TFPT0805L1001FV	RES-VARI THERMISTOR 1K +-1% .1W TC=+400	R0805	RA9, RB9, RC6, RD6
31	1575671	4	MULTICOMP	MCTC0525B2490T5E	RESISTOR 249 OHM +-0.1pct .1W TF TC=0+-25	R0805	RA3, RB3, RC1, RD1
32	1653280	21	SUSUMU	RR1220P-102-B-T5	RES-FXD 1K +-0.1pct .1W TF TC=0+-25	R0805	R9, RA10, RA11, RA12, RA13, RB10, RB11, RB12, RB13, RC9, RC10, RC11, RC12, RD9, RD10, RD11, RD12, RE3, RF3, RG3, RH3
33	1400658	6	KOA	RN73H2ATTD5101B10	RES-FXD 5.1K +-0.1pct .125W TF TC=0+-10	R0805	RA2, RB2, REFA1, REFB1, REFC1, REFD1
34	1108896	4	WELWYN	PCF0805-13-15K-B-T1.	RES-FXD 15K +-0.1pct .1W TF TC=0+-5	R0805	RE2, RF2, RG1, RH1
35	1575949	2	MULTICOMP	MCTC0525B2492T5E	RES-FXD 24K9 +-0.1pct .1W TF TC=0+-25	R0805	RA1, RB1
36	1670250	6	PANASONIC	ERA6AEB513V	RES-FXD 51K +-0.1pct .125W TF TC=0+-25	R0805	RA8, RB8, RC4, RC5, RD4, RD5
37	1697455	4	TYCO ELECTRONICS	CPF0805B68KE1	RES-FXD 68K +-0.1pct .1W TF TC=0+-25	R0805	RC14, RC15, RD14, RD15
38	1653285	2	SUSUMU	RR1220P-104-B-T5	RES-FXD 100K +-0.1pct .1W TF TC=0+-25	R0805	RA6, RB6
39	1797009	2	SUSUMU	RG2012P-334-B-T1	RES-FXDR 330K +-0.1pct .1W TF TC=0+-25 (249K was populated during EMC tests, changed here to meet specified headroom specifications of the AD8220)	R0805	RA4, RB4
40	1653302	4	SUSUMU	RR1220P-2493-B-M-T5	RES-FXDR 249K +-0.1pct .1W TF TC=0+-25	R0805	RC2, RC3, RD2, RD3
41	1057174	4	LITTELFUSE	V56ZA3P	RES-VARISTOR 35VAC 45VDC 2.3J RADIAL	AXIAL-0.3	R1, R2, R3, R4

42	9350128	1	BOURNS	MF-RX110/72-0	RES-VARI PTC VH=60V IH=1.1A IT=2.2A 0.15OHM	PTC_100	PTC1
43	1669687	6	TDK	MMZ1608B601C	CORE-SHIELDING BEAD 500MA 600R@100MHz SMD0603	L0603	LA6, LB6, LC6, LD6, LD7
44	1651733	4	VISHAY DALE	ILB1206ER601V	CORE-SHIELDING BEAD 200MA 600R@100MHz SMD1206	L1206	LE5, LF5, LG5, LH5
45	8094772	2	PANASONIC	ELC09D102F	INDUCTOR CHOKE 1MH +-10pct 280MADC 2R1	L5-10	L1, L2
46	1457859	21	KEMET	L0805C100MDWIT	INDUCTOR CHIP 10UH +-20pct 240MADC 1R2 0805	ZH0805	L3, L4, L5, LC1, LC2, LC3, LD1, LD2, LD3, LE1, LE3, LE4, LF1, LF3, LF4, LG1, LG3, LG4, LH1, LH3, LH4
47	1685056	2	ROHM	SML-211UTT86	LED-LAMP LUM-INT=2.5MCD IF=2MA BVR=1.8V 0805	LED_0805	LED1, LED2
48	9886176RL	15	STMICROELECTRONIC	SMBJ20CA	DIODE-TVS BIDIREDTIONAL 20V 600W SMB	TVS-6.5V	Z1, Z2, Z3, ZA1, ZB1, ZC1, ZD1, ZE2, ZE3, ZF2, ZF3, ZG2, ZG3, ZH2, ZH3
49	1017839	4	FAIRCHILD SEMICOND	SMBJ33CA	DIODE-TVS BIDIREDTIONAL 33V 600W SMB	TVS-6.5V	ZE1, ZF1, ZG1, ZH1
50	9556079	2	ON SEMICONDUCTOR	MMSD4148T1G	DIODE-RECTF 100V 200MA SOD-123	ZHD001	DA1, DB1
51	9843841	1	FAIRCHILD SEMICOND	S1M	DIODE-PWR RECT 1KV 1A SMA	IN4007	D1
52	1431036RL	11	ON SEMICONDUCTOR	MBR0530T1G	DIODE-SCHOTTKY 30V 0.5A SOD-123	ZHD001	D2, DA3, DB3, DE1, DE2, DF1, DF2, DG1, DG2, DH1, DH2
53	1431115RL	8	ON SEMICONDUCTOR	BAV199L1TG	DIODE-DUAL 70V 100MA SOT-23	SOT-23	DE3, DE4, DF3, DF4, DG3, DG4, DH3, DH4
54	1700696	4	FAIRCHILD	MMBTA05	TRANSISTOR NPN SI SOT-23(5) 0.5A 60V PD=350MW	SOT23-5	QE1, QF1, QG1, QH1
55		4	ANALOG DEVICES	AD5422BREZ	D/A 16-BIT, SERIAL INPUT I/V OUTPUT 24-TSSOP	TSOP24_EP	UE3, UF3, UG3, UH3
56		4	ANALOG DEVICES	AD7793BRUZ	A/D 3-CH, 24-Bit Σ-Δ, 16-TSSOP	TSSOP_16	UA5, UB5, UC6, UD6
57		4	ANALOG DEVICES	AD8220ARMZ	IC INA AMPL PRCN INSTRUMENTATION 8-MSOP	MSOP_8	UA4, UB4, UC4, UD4
58		2	ANALOG DEVICES	AD8601ARTZ	IC OP AMP PRCN LOW NOISE SINGLE R-R I/O 5-SOT23	SO-G5/P.95	UA3, UB3
59		1	ANALOG DEVICES	ADM3251EARWZ	IC INTFC ISO 1-CH RS-232 Line Driver/Receiver 20-SOIC_W	SOIC_W20	U4
60		1	ANALOG DEVICES	ADP1715ARMZ-3.3-R7	IC PWR MGT-V-REG-FXD-POS 3.201/3.399V 0.5A 8-MSOP	MSOP_8	U2
61		2	ANALOG DEVICES	ADP1720ARMZ-5-R7	IC PWR MGT-V-REG-FXD-POS 4.9/5.1V 50mA 8-MSOP	MSOP_8	UC2, UD2
62		4	ANALOG DEVICES	ADR441BRZ	IC PWR MGT-V-REF-FXD 2.499/2.501V 8-SOIC_N	SO-G8	UA2, UB2, UC3, UD3
63		2	ANALOG DEVICES	ADR445BRZ	IC PWR MGT-V-REF-FXD 4.998/5.002V 8-SOIC_N	SO-G8	UG4, UH4
64		1	ANALOG DEVICES	ADUC7027BSTZ62	IC 32-BIT CPU 12-BIT AD/DA 62KB FLSH 8KB RAM UART 80-LQFP	ADuC7026-702	U3
65		6	ANALOG DEVICES	ADUM1401CRWZ	IC INTFC QUAD DIGITAL ISOLATORS 2.5KV 90MBPS 16-SOIC_W	SOIC-RW16	UC7, UD7, UE1, UF1, UG1, UH1
66		2	ANALOG DEVICES	ADUM5401ARWZ	IC INTFC QUAD DIGITAL ISOLATORS 2.5KV 25MBPS .5W PWR 16-SOIC_W	SOIC-RW16	UA6, UB6
67	9802274	4	STMICROELECTRONIC	ESDA6V1SC6	DIODE-QUAD TVS UNIDIREDTIONAL 6.1V 500W 6-SOT23	SOT23-6L	UA1, UB1, UC1, UD1
68		2	MORNSUN	IA2415KS-1W	IC PWR MGT-V-REG-FXD-DUAL +-15V 66mA	IA_KS	UC5, UD5
69		4	MORNSUN	IA2415KS-2W	IC PWR MGT-V-REG-FXD-DUAL +-15V 132mA	IA_KS	UE2, UF2, UG2, UH2
70		1	MORNSUN	WRF2405MP-2W5	IC PWR MGT-V-REG-FXD-POS 5V 2.5W	WRDXXXXP-3	U1
71	1539359	1	MICRO CRYSTAL	MS1V-T1K 32.768KHz +-20PPM	CRYSTAL OSC 32.768KHz +-20ppm TC=+-20ppm	BCY-W2/D3.1	Y1
72	1605481	4	MULTICOMP	MCDHN-08F-T-V	SWITCH DIP SMD 8 WAY 1.27MM 24VDC 25MA	DM1.27-08	KA1, KB1, KC1, KD1
73	3704579	20	PHOENIX CONTACT	1727010	CONN-TERMINAL BLOCK PCB MOUNT 3.81MM 2WAY	CON2-3.81	JA1, JA2, JB1, JB2, JC1, JC2, JD1, JD2, JE1, JE2, JE3, JF1, JF2, JF3, JG1, JG2, JG3, JH1, JH2, JH3
74	3704580	5	PHOENIX CONTACT	1727023	CONN-TERMINAL BLOCK PCB MOUNT 3.81MM 3WAY	CON3-3.81	JA3, JB3, JC3, JD3, JP2
75	8391246	1	TYCO ELECTRONICS /	1-1634580-2	CONN-D-SUB FEMALE RIGHT ANGLE DIP 9 CONTACT BOARD LOCK	DB-9/M	J1
76	224959	1	CLIFF ELECTRONIC CO	DC10A	CONN-PWR JACK 2.1MM PCB MOUNT 12VDC 5A	KLD-0202	JP1
77	177807	2	OMRON ELECTRONIC	B3S-1000	SWITCH PUSH-BUTTON PCB-MOUNT 24VDC 50MA 6X6MM	ZHSW-PB2	SW1, SW2
78	9689567	2	TYCO ELECTRONICS/A	1241050-3	CONN-HEADER VERTICAL SMT 2.54MM 2X3WAY	HDR2X3_P	JPC1, JPD1
79	8395942	1	TYCO ELECTRONICS /	2-1634688-0	CONN-HEADER BOX STRAIGHT 20WAY 2ROW 2.54MM	IDC20H	JP3
80		1		PLC_DEMO_BD	BLANK PCB Entry from ML_Xload		
	SUM	498					