

Linear Technology Corporation

LTC23XXILX FAMILY

DC2094A2-GENERAL BOM (AD)

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	630
1	13	C1-C3,C5-C9,C14-C16,C21,C47	CAP., X7R, 0.1uF, 25V,10%, 0603	Murata, GRM188R71E104KA01D	8190
2	0	C4	CAP., 0603	OPT	0
3	2	C10,C12	CAP., X5R, 2.2uF, 25V, 20%, 0603	TDK, C1608X5R1E225M080AB	1260
4	1	C11	CAP., X7R, 47uF, 10V, 10%, 1210	MURATA, GRM32ER71A476KE15L	630
5	8	C13,C25,C28,C30,C33,C36,C41,C44	CAP., X7R, 1uF, 50V,10%, 0603	Taiyo Yuden, UMK107AB7105KA-T	5040
6	41	C17-C20,C22,C48-C69,C73,C84,C85,C90-C92,C96,C97,C104,C105,C120,C121,C128,C129	CAP., X7R, 0.1uF, 50V,10%, 0402	MURATA, GRM155R71H104KE14D	25830
7	9	C23,C27,C29,C32,C35,C38,C40,C43,C46	CAP., X5R, 10uF 25V, 20%, 0603	Murata, GRM188R61E106MA73D	5670
8	1	C24	CAP., TANT, 47uF 25V, 20%,7343	AVX, TPSD476M025R0250	630
9	6	C26,C31,C34,C37,C42,C45	CAP., X7R, 0.01uF, 50V, 10%, 0603	MURATA, GRM188R71H103KA01D	3780
10	1	C39	CAP., X5R, 3.3uF 25V, 20%, 0603	TDK, C1608X5R1E335M	630
11	1	C70	CAP., X5R, 47uF 6.3V, 20%, 0805	SAMSUNG, CL21A476MQCLRNC	630
12	2	C71,C88	CAP., X5R, 4.7uF, 10V, 10%, 0603	SAMSUNG, CL10A475KP8NNNC	1260
13	3	C72,C83,C89	CAP., X7R, 0.01uF, 16V, 10%, 0402	Murata, GRM155R71C103KA01D	1890
14	1	C74	CAP., X7R, 1000pF, 50V, 10%, 0402	AVX, 04025C102KAT2A	630
15	3	C75,C76,C77	CAP., X7R, 0.022uF, 50V, 10%, 0402	Murata, GRM155R71H223KA12D	1890
16	2	C78,C93	CAP., X7R, 4.7nF, 50V, 10%, 0402	Murata, GRM155R71H472KA01D	1260
17	4	C79,C80,C81,C82	CAP., C0G, 10pF, 50V, 5%, 0402	MURATA, GRM155C1H100JA01D	2520
18	1	C86	CAP., X7R, 2.2nF, 50V, 10%, 0402	Murata, GRM155R71H222KA01D	630
19	1	C87	CAP., TANT, 470uF 10V, 20%,7343	AVX, TPSE477M010R0050	630
20	0	C94,C95,C102,C103,C106-C109,C113,C115-C119,C124,C125,C130-C133, C137,C139-C141	CAP., 0402	OPT	0
21	8	C98,C99,C110-C122,C123,C134,C135	CAP., NP0, 270pF, 50V, 2%, 0402	MURATA, GRM155C1H271GA01D	5040
22	0	C100,C101,C112,C114,C126,C127,C136,C138	CAP., 0805	OPT	0
23	4	D1,D2,D3,D4	DIODE, SCHOTTKY 30V 0.1A, SOD323	DIODES INC., BAT54WS-7-F	2520
24	9	E1,E2,E4,E7-E12	TESTPOINT, TURRET, .064" pbf	MILL-MAX, 2308-2-00-80-00-00-07-0	5670
25	3	E3,E5,E6	TESTPOINT, TURRET, .094" pbf	MILL-MAX, 2501-2-00-80-00-00-07-0	1890
26	4	JP1,JP2,JP3,JP4	JMP, 1X3, .100", HD1X3-100	Wurth Elektronik, 61300311121	2520
27	8	JP5-JP12	HEADER, 1X2, .100", HD1X2-100	SAMTEC, TSW-102-07-L-S	5040
28	3	J1,J5,J6	CONN BNC FEM JACK PC MNT STRGHT,BNC5	Amphenol Connex, 112404	1890
29	2	J2,J3	HEADER, 2X5, .100", HD2X5-100	Wurth Elektronik, 61301021121	1260
30	1	J4	CONN., 14 Pin, 2mm	MOLEX, 87831-1420	630
31	1	J7	HEADER, 3X8, .100", HD3X8-100	SAMTEC, TSW-108-07-L-T	630
32	1	L1	FERRITE BEAD, 1206	MURATA, BLM31PG391SN1L	630
33	10	R1,R5,R21,R22,R36,R37,R39,R41,R44,R46	RES., CHIP, 1K, 1/10W, 1% 0603	YAGEO, RC0603FR-071KL	6300
34	15	R2,R3,R6,R8,R10-R20	RES., CHIP, 33, 1/10W, 5% 0603	YAGEO, RC0603JR-0733RL	9450

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	630
35	1	R4	RES., CHIP, 49.9, 1/4W, 1% 1206	YAGEO, RC1206FR-0749R9L	630
36	0	R7	RES., 0603	OPT	0
37	9	R9,R107,R109,R124,R125,R133,R135,R149,R151	RES., CHIP, 0, 1/10W, 0603	YAGEO, RC0603FR-070RL	5670
38	0	R23,R50,R51,R53,R54,R56,R57,R111,R112, R114,R115,R117-R119,R121,R127,R128, R137,R138,R141-R145,R147,R153,R154	RES., 0402	OPT	0
39	40	R24-R31,R33,R49,R52,R62-R90	RES., CHIP, 33, 1/16W, 5% 0402	YAGEO, RC0402JR-0733RL	25200
40	21	R32,R47,R48,R55,R58,R105,R106,R113,R116, R120,R122,R129,R130-R132,R139,R140,R146, R148,R155,R156	RES., CHIP, 0, 1/10W, 0402	YAGEO, RC0402FR-070RL	13230
41	2	R34,R38	RES., CHIP, 11.5K, 1/10W, 1% 0603	YAGEO, RC0603FR-0711K5L	1260
42	1	R35	RES., CHIP, 5.62K, 1/10W, 1% 0603	YAGEO, RC0603FR-075K62L	630
43	1	R40	RES., CHIP, 1.07K, 1/10W, 1% 0603	YAGEO, RC0603FR-071K07L	630
44	1	R42	RES., CHIP, 1.58K, 1/10W, 1% 0603	YAGEO, RC0603FR-071K58L	630
45	1	R43	RES., CHIP, 3.09K, 1/10W, 1% 0603	YAGEO, RC0603FR-073K09L	630
46	1	R45	RES., CHIP, 1.43K, 1/10W, 1% 0603	YAGEO, RC0603FR-071K43L	630
47	11	R59,R60,R95-R103	RES., CHIP, 10K, 1/16W, 5% 0402	YAGEO, RC0402JR-0710KL	6930
48	4	R91,R92,R93,R94	RES., CHIP, 4.99K, 1/10W, 1% 0603	YAGEO, RC0603FR-074K99L	2520
49	1	R104	RES., CHIP, 1K, 1/16W, 5% 0402	YAGEO, RC0402JR-071KL	630
50	8	R108,R110,R123,R126,R134,R136,R150,R152	RES., CHIP, 100, 1/16W, 1% 0402	YAGEO, RC0402FR-07100RL	5040
51	4	U2,U3,U5,U13	IC., INVERTER UHS SINGLE, SC70-5	FAIRCHILD, NC7SZ04P5X	2520
52	1	U4	IC., D-TYPE POS TRG SNGL, US8	ON SEMI., NL17SZ74USG	630
53	5	U6,U9,U10,U11,U12	IC., BUS SWITCH SPST SGL LV, SC70-5	FAIRCHILD, NC7SZ66P5X	3150
54	1	U7	IC., 0.25ppm NOISE, LOW DRIFT PRECISION REF., MS8	LINEAR TECH., LTC6655BHMS8-5	630
55	1	U8	IC., I/O EXPANDER I2C 8B, SSOP20	NXP, PCF8574TS/3,118	630
56	1	U14	IC., 200mA LDO MICROPWR REGULATORS, SOT23-5	LINEAR TECH., LT1964ES5-SD	630
57	5	U15,U16,U17,U18,U21	IC., 500mA LDO MICROPWR REGULATORS, SO8	LINEAR TECH., LT1763CS8	3150
58	1	U19	IC, LINEAR REGULATOR, SO8	LINEAR TECH., LT3021ES8-1.2	630
59	1	U20	IC., 500mA LDO MICROPWR REGULATORS, SO8	LINEAR TECH., LT1763CS8-2.5	630
60	1	U22	IC, CYCLONE III FPGA 5K, EQFP144	ALTERA, EP3C5E144C7N	630
61	1	U23	IC, CONFIG DEVICE 4MBIT, SO8	ALTERA, EPCS4SI8N	630
62	1	U24	IC., SERIAL EEPROM, TSSOP8	Microchip, 24LC024-I/ST	630
63	4	U25,U26,U27,U28	IC, Dual 12MHz, Op Amp, SO8	LINEAR TECH., LT1355CS8	2520
64	4	MH1-MH4	STAND-OFF, NYLON, 0.25"	KEYSTONE, 8831(SNAP ON)	2520
65	12	SHUNTS AS ASSY DWG (JP1-JP4,J7)	SHUNT, 0.1" CENTER	Wurth Elektronik, 60900213421	7560
66	2		STENCILS FOR BOTH SIDES	DC2094A-2	2

Linear Technology Corporation

LTC2348ILX-18

Bill Of Materials
Demo Bd. 2094A2-A

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	208
1	1		DC2094A2-GENERAL BOM		1
2	1	R61	RES., CHIP, 0, 1/10W, 0402	YAGEO, RC0402FR-070RL	208
3	1	U1	I.C., 8-CH, LQFP48LX-7X7	LINEAR TECH., LTC2348ILX-18	208

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LTC2348ILX-16

Bill Of Materials
Demo Bd. 2094A2-D

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	104
1	1		DC2094A2-GENERAL BOM		1
2	0	R61	RES., 0402	OPT	0
3	1	U1	I.C., 8-CH, LQFP48LX-7X7	LINEAR TECH., LTC2348ILX-16	104