

# Linear Technology Corp.

LTC232XCUCFD FAMILY

GENERAL BOM (A,B,C,D,E,F)

Bill Of Materials

Demo Bd. #1996A-2

4/2/2014 3:38 PM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>334</b>
1	20	C1,C2,C4,C5,C9,C11,C13,C18,C19,C22, C23,C29,C37,C51,C52,C58,C59,C82,C129,C130	CAP., X7R, 0.1uF, 16V 10% 0603	NIC, NMC0603X7R104K16TRPF	6680
2	24	C3,C6,C16,C17,C20,C21,C24-C26,C28,C30,C34, C47-C50,C53,C54,C57,C61,C70,C76,C79,C81	CAP., X5R, 10uF, 6.3V 20% 0603	NIC, NMC0603X5R106M6.3TRPF4KF	8016
3	0	C7,C8,C10,C14,C27,C35,C36,C40,C46,C60	CAP., 0603	OPT	0
4	2	C12,C41	CAP., NP0, 200pF, 50V 5%, 0603	Murata, GRM1885C1H201JA01D	1020
5	12	C15,C32,C38,C39,C43,C45,C65,C67,C68,C71,C74,C77	CAP., X7R, 1uF, 25V 10%, 0603	TDK, C1608X7R1E105K	4008
6	6	C31,C33,C55,C56,C106,C119	CAP., X5R, 4.7uF, 6.3V 10%, 0603	AVX, 06036D475KAT2A	2004
7	2	C42,C44	CAP., X5R, 2.2uF, 10V 10%, 0603	MURATA, GRM188R61A225KE34D	668
8	1	C62	CAP., X7R, 47uF, 10V 10%, 1210	MURATA, GRM32ER71A476KE15L	334
9	5	C63,C69,C72,C75,C78	CAP., X7R, 0.01uF, 6.3V 10%, 0603	MURATA, GRM188R70J103KA01D	1670
10	3	C64,C66,C73	CAP., X7R, 10uF, 10V 10%, 0805	MURATA, GRM21BR71A106KE51L	1002
11	1	C80	CAP., X5R, 3.3uF, 6.3V 10%, 0603	AVX, 06036D335KAT2A	334
12	28	C83-C104,C108,C122-C126	CAP., X7R, 0.1uF, 16V 10%, 0402	NIC, NMC0402X7R104K16TRPF	9352
13	1	C105	CAP., X5R, 47uF, 6.3V 20%, 0805	TAIYO YUDEN, JMK212BJ476MG-T	334
14	3	C107,C120,C121	CAP., X7R, 0.01uF, 16V 10%, 0402	NIC, NMC0402X7R103K16TRPF	1002
15	1	C109	CAP., X7R, 1nF, 16V 10%, 0402	AVX, 0402YC102KAT2A	334
16	3	C110,C111,C112	CAP., X7R, 22nF, 16V 10%, 0402	AVX, 0402YC223KAT2A	1002
17	2	C113,C128	CAP., X7R, 4.7nF, 16V 10%, 0402	AVX, 0402YC472KAT2A	668
18	4	C114,C115,C116,C117	CAP., NP0, 10pF, 16V 10%, 0402	AVX, 0402YA100KAT2A	1336
19	1	C118	CAP., TANT, 470uF 10V 20%, 7343	AVX, TPSE477M010R0050	334
20	1	C127	CAP., X7R, 2.2nF, 16V 10%, 0402	AVX, 0402YC222KAT2A	334
21	4	D1,D2,D3,D4	DIODE, SCHOTTKY 30V 200MW, SOD323	DIODE INC., BAT54WS-7-F	1336
22	9	E1-E3,E5,E8-E12	TEST POINT, TURRET, .064"	MILL MAX, 2308-2-00-80-00-00-07-0	3006
23	3	E4,E6,E7	TEST POINT, TURRET, .094"	MILL- MAX, 2501-2-00-80-00-00-07-0	1002
24	11	JP1,JP3-JP7,JP9-JP13	HEADER, 1X3, 0.100"	SAMTEC, TSW-103-07-L-S	3674
25	2	JP2,JP8	HEADER, 2X3, 0.100"	SAMTEC, TSW-103-07-L-D	668
26	5	J1,J2,J3,J4,J5	CONN BNC FEM JACK PC MNT STRGHT	Amphenol Connex, 112404 30 trays	1670
27	2	J6,J7	HEADER, 2X5, 0.100"	SAMTEC, TSW-105-07-L-D	668
28	1	L1	IND, FERRITE CHIP 390 OHM 2000mA 1206	MURATA, BLM31PG391SN1L	334
29	15	R1,R2,R10,R21,R27,R46-R48, R51,R52,R57,R58,R60,R64,R66	RES., CHIP, 1K, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF1001V	5010
30	0	R3,R7,R11,R22,R23,R25,R28,R29, R32,R34,R36,R37,R49,R50,R54,R123	RES., CHIP, 0603	OPT	0
31	2	R4,R17	RES., CHIP, 33 OHMS, 1/10W, 5% 0603	PANASONIC, ERJ-3GEYJ330V	668

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LTC232XCUCFD FAMILY

GENERAL BOM (A,B,C,D,E,F)

Bill Of Materials

Demo Bd. #1996A-2

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>334</b>
32	11	R5,R6,R12,R20,R24,R30,R31,R35,R39,R40,R53	RES., CHIP, 0 OHM, 1/10W, 0603	PANASONIC, ERJ-3GEY0R00V	3674
33	4	R8,R18,R33,R44	RES., CHIP, 49.9 OHMS, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF49R9V	1336
34	1	R9	RES., CHIP, 49.9 OHMS, 1/4W, 1% 1206	PANASONIC, ERJ-8ENF49R9V	334
35	4	R13,R16,R38,R43	RES., CHIP, 0 OHM, 1/16W, 0402	PANASONIC, ERJ-2GE0R00X	1336
36	4	R14,R15,R41,R42	RES., CHIP, 301, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF3010V	1336
37	2	R19,R45	RES., CHIP, 150, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF1500V	668
38	0	R26,R75,R76,R99	RES., CHIP, 0402	OPT	0
39	2	R55,R56	RES., CHIP, 3.92K, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF3921V	668
40	1	R59	RES., CHIP, 499 OHMS, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF4990V	334
41	1	R61	RES., CHIP, 866 OHMS, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF8660V	334
42	1	R62	RES., CHIP, 3.09K, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF3091V	334
43	1	R63	RES., CHIP, 4.02K, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF4021V	334
44	1	R65	RES., CHIP, 1.43K, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF1431V	334
45	33	R69-R72,R77-R98,R100-R104,R119,R120	RES., CHIP, 33 OHMS, 1/16W, 5% 0402	PANASONIC, ERJ-2GEJ330X	11022
46	1	R118	RES., CHIP, 1K, 1/16W, 1% 0402	PANASONIC, ERJ-2EKF1001V	334
47	4	R105,R106,R107,R108	RES., CHIP, 4.99K, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF4991V	1336
48	9	R109-R117	RES., CHIP, 10K, 1/16W, 5% 0402	PANASONIC, ERJ-2GEYJ103V	3006
49	1	R121	RES., CHIP, 10K, 1/10W, 5% 0603	PANASONIC, ERJ-3GEYJ103V	334
50	1	R122	RES., CHIP, 100, 1/10W, 1% 0603	PANASONIC, ERJ-3EKF1000V	334
51	3	U2,U3,U7	IC, INVERTER UHS SINGLE SC70-5	FAIRCHILD, NC7SZ04P5X	1002
52	2	U4,U5	IC, 400MHz AMPLIFIER, MS8	LINEAR TECH., LT1819CMS8	668
53	1	U6	IC, FLIP FLOP D-TYPE LOG, US8	ON SEMI., NL17SZ74USG	334
54	2	U8,U9	IC, VOLTAGE REFERENCE, MSOP8	LINEAR TECH., LTC6655BHMS8-4.096	668
55	2	U10,U21	IC, OP-AMP, TSOT23-5	LINEAR TECH., LT6202CS5	668
56	4	U11,U13,U14,U15	IC, MICROPOWER REGULATOR, SO8	LINEAR TECH., LT1763CS8	1336
57	1	U12	IC, MICROPOWER NEG. REGULATOR, SOT-23	LINEAR TECH., LT1964ES5-SD	334
58	1	U16	IC, MICROPOWER REGULATOR, SO8	LINEAR TECH., LT1763CS8-2.5	334
59	1	U17	IC, LINEAR REGULATOR, SO8	LINEAR TECH., LT3021ES8-1.2	334
60	1	U18	IC, CYCLONE III FPGA 5K, EQFP144	ALTERA, EP3C5E144C7N	334
61	1	U19	IC, CONFIG DEVICE 4MBIT, SO8	ALTERA, EPCS4SI8N	334
62	1	U20	IC, EEPROM 2KBIT 400KHZ, TSSOP8	MICROCHIP, 24LC024-I/ST	334
63	1	Y1	OSCILLATOR, 106.2500 MHZ 3.3V SMD, Y-CB3L	CTS-Frequency,CB3LV-3I-106M2500	334
64	12	SHUNTS AS SHOWN ON ASSY DWG	SHUNT, 0.100	SAMTEC, SNT-100-BK-G	4008
65	4	MH1-MH4	STANDOFF, NYLON 0.25"	KEYSTONE, 8831 (SNAP ON)	1336
66	1		STENCIL FOR TOP SIDE ONLY	STENCIL 1996A-2	1

# Linear Technology Corp.

LTC2323XCUFDFAMILY

Bill Of Materials

Demo Bd. #1996A2-ABCDEF

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ASSY Type	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>334</b>
<b>A</b>	1		DC1996A-2-GENERAL BOM		0
	2	R67,R73	RES., CHIP, 1K, 1/10W, 1% 0402	PANASONIC, ERJ-2EKF1001V	0
	0	R68,R74	RES., CHIP, 0402	OPT	0
	1	U1	I.C., DUAL SAR ADC, QFN28UFD-4X5	LINEAR TECH., LTC2323CUFD-16	0
<b>B</b>	1		DC1996A-2-GENERAL BOM		1
	2	R67,R73	RES., CHIP, 1K, 1/10W, 1% 0402	PANASONIC, ERJ-2EKF1001V	136
	0	R68,R74	RES., CHIP, 0402	OPT	0
	1	U1	I.C., DUAL SAR ADC, QFN28UFD-4X5	LINEAR TECH., LTC2321CUFD-16	68
<b>C</b>	1		DC1996A-2-GENERAL BOM		1
	0	R67,R74	RES., CHIP, 0402	OPT	0
	2	R68,R73	RES., CHIP, 1K, 1/10W, 1% 0402	PANASONIC, ERJ-2EKF1001V	136
	1	U1	I.C., DUAL SAR ADC, QFN28UFD-4X5	LINEAR TECH., LTC2323CUFD-14	68
<b>D</b>	1		DC1996A-2-GENERAL BOM		1
	0	R67,R74	RES., CHIP, 0402	OPT	0
	2	R68,R73	RES., CHIP, 1K, 1/10W, 1% 0402	PANASONIC, ERJ-2EKF1001V	132
	1	U1	I.C., DUAL SAR ADC, QFN28UFD-4X5	LINEAR TECH., LTC2321CUFD-14	66
<b>E</b>	1		DC1996A-2-GENERAL BOM		1
	2	R67,R74	RES., CHIP, 1K, 1/10W, 1% 0402	PANASONIC, ERJ-2EKF1001V	132
	0	R68,R73	RES., CHIP, 0402	OPT	0
	1	U1	I.C., DUAL SAR ADC, QFN28UFD-4X5	LINEAR TECH., LTC2323CUFD-12	66
<b>F</b>	1		DC1996A-2-GENERAL BOM		1
	2	R67,R74	RES., CHIP, 1K, 1/10W, 1% 0402	PANASONIC, ERJ-2EKF1001V	132
	0	R68,R73	RES., CHIP, 0402	OPT	0
	1	U1	I.C., DUAL SAR ADC, QFN28UFD-4X5	LINEAR TECH., LTC2321CUFD-12	66