

Linear Technology Corporation

LTC2344IUH-18/16

Bill Of Materials

Demo Bd. #2520A1-General BOM

9/1/2016 9:51 AM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	220
1	11	C1-C3,C6,C7,C9,C14-C16,C21,C47	CAP., X7R, 0.1uF, 25V,10%, 0603	MURATA, GRM188R71E104KA01D	2420
2	2	C10,C12	CAP., X5R, 2.2uF, 25V, 20%, 0603	MURATA, GRM188R61E225ME84D	440
3	1	C11	CAP., X7R, 47uF, 10V, 10%, 1210	MURATA, GRM32ER71A476KE15L	220
4	7	C13,C28,C30,C33,C36,C41,C44	CAP., X7R, 1uF, 50V,10%, 0603	Taiyo Yuden, UMK107AB7105KA-T	1540
5	33	C17-C20,C22,C48-C69,C73,C84,C85,C90-C92	CAP., X7R, 0.1uF, 50V,10%, 0402	MURATA, GRM155R71H104KE14D	7260
6	11	C23,C25-C27,C29,C32,C35,C38,C40,C43,C46	CAP., X5R, 10uF 25V, 20%, 0603	MURATA, GRM188R61E106MA73D	2420
7	1	C24	CAP., TANT, 47uF 25V, 20%, 7343	AVX, TPSD476M025R0250	220
8	5	C31,C34,C37,C42,C45	CAP., X7R, 0.01uF, 50V, 10%, 0603	MURATA, GRM188R71H103KA01D	1100
9	1	C39	CAP., X5R, 3.3uF 25V, 20%, 0603	TDK, C1608X5R1E335M	220
10	1	C70	CAP., X5R, 47uF 6.3V, 20%, 0805	MURATA, GRM21BR60J476ME15L	220
11	2	C71,C88	CAP., X5R, 4.7uF, 10V, 10%, 0603	MURATA, GRM188R61A475KE15D	440
12	3	C72,C83,C89	CAP., X7R, 0.01uF, 16V, 10%, 0402	MURATA, GRM155R71C103KA01D	660
13	9	C74,C94,C95,C102,C103,C110,C111,C123,C124	CAP., C0G, 1000pF, 50V, 5%, 0402	MURATA, GRM1555C1H102JA01D	1980
14	3	C75,C76,C77	CAP., X7R, 0.022uF, 50V, 10%, 0402	MURATA, GRM155R71H223KA12D	660
15	2	C78,C93	CAP., X7R, 4700pF, 50V, 10%, 0402	MURATA, GRM155R71H472KA01D	440
16	4	C79,C80,C81,C82	CAP., C0G, 10pF, 50V, 5%, 0402	MURATA, GRM1555C1H100JA01D	880
17	1	C86	CAP., X7R, 2200pF, 50V, 10%, 0402	MURATA, GRM155R71H222KA01D	220
18	1	C87	CAP., TANT, 470uF 10V, 20%,7343	AVX, TPSE477M010R0050	220
19	10	C96, C97,C104,C105,C107,C109,C119,C122,C158,C159	CAP., X5R, 3.3uF 6.3V, 20%, 0402	TDK, C1005X5R0J335M050BC	2200
20	0	C98,C99,C106,C115-C118,C125	CAP., 0402	OPT	0
21	4	C100,C101,C108,C120	CAP., C0G, 39pF, 100V, 5%, 0805	MURATA, GRM2195C2A390JZ01D	880
22	4	C112,C113,C114,C121	CAP., X7R, 10uF 10V, 10%, 0805	MURATA, GRM21BR71A106KE51L	880
23	1	C160	CAP., X5R, 1uF, 10V,10%, 0402	MURATA, GRM155R61A105KE15D	220
24	4	D1,D2,D3,D4	DIODE, SCHOTTKY 30V 0.1A SOD323	DIODES INC., BAT54WS-7-F	880
25	9	E1,E2,E7-E13	TESTPOINT, TURRET, .064" pbf	MILL-MAX, 2308-2-00-80-00-00-07-0	1980
26	3	E3,E5,E6	TESTPOINT, TURRET, .094" pbf	MILL-MAX, 2501-2-00-80-00-00-07-0	660
27	6	JP1-JP4,JP13,JP14	HEADER, 2.54 mm 3 PINS STRAIGHT GOLD PLATING	Wurth Elektronik, 61300311121	1320
28	4	JP5,JP6,JP7,JP8	HEADER, 2.54 mm 2 PINS STRAIGHT GOLD PLATING	Wurth Elektronik, 61300211121	880
29	1	JP15	HEADER, 2.54 mm 8 PINS STRAIGHT GOLD PLATING	Wurth Elektronik, 61300821121	220
30	3	J1,J5,J6	CONN BNC JACK STR 50 OHM PCB	Amphenol Connex, 112404	660
31	2	J2,J3	HEADER, 2.54 mm 10 PINS STRAIGHT GOLD PLATING	Wurth Elektronik, 61301021121	440
32	1	J4	CON., Header, 14 Pin, 2mm	MOLEX, 87831-1420	220
33	1	J7	HEADER, 3X4, .100", HD3X4-100	SAMTEC, TSW-104-07-L-T	220
34	1	L1	FERRITE BEAD, 1206	MURATA, BLM31PG391SN1L	220
35	9	R1,R5,R21,R22,R36,R39,R41,R44,R46	RES., CHIP, 1K, 1/10W, 1% 0603	VISHAY, CRCW06031K00FKEA	1980
36	12	R2,R3,R6,R8,R10-R17	RES., CHIP, 33, 1/10W, 5% 0603	VISHAY, CRCW060333R0JNEA	2640
37	1	R4	RES., CHIP, 49.9, 1/4W, 1% 1206	VISHAY, CRCW120649R9FKEA	220
38	0	R7	RES., 0603	OPT	0

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				NUMBER OF BOARDS =	220
39	1	R9	RES., CHIP, 0, 1/10W, 0603	VISHAY, CRCW06030000Z0EA	220
40	0	R23,R50,R51,R53,R54,R56,R57, R109,R110,R115-R118,R137,R139	RES., 0402	OPT	0
41	38	R24-R31,R33,R62-R90	RES., CHIP, 33, 1/16W, 1% 0402	VISHAY, CRCW040233R0FKED	8360
42	10	R32,R47,R48,R55,R58,R113,R114,R127,R136,R176	RES., CHIP, 0, 1/10W, 0402	VISHAY, CRCW04020000Z0ED	2200
43	1	R34	RES., CHIP, 2K, 1/10W, 1% 0603	VISHAY, CRCW06032K00FKEA	220
44	1	R38	RES., CHIP, 5.62K, 1/10W, 1% 0603	VISHAY, CRCW06035K62FKEA	220
45	1	R40	RES., CHIP, 1.07K, 1/10W, 1% 0603	VISHAY, CRCW06031K07FKEA	220
46	1	R42	RES., CHIP, 1.58K, 1/10W, 1% 0603	VISHAY, CRCW06031K58FKEA	220
47	1	R43	RES., CHIP, 3.09K, 1/10W, 1% 0603	VISHAY, CRCW06033K09FKEA	220
48	1	R45	RES., CHIP, 1.43K, 1/10W, 1% 0603	VISHAY, CRCW06031K43FKEA	220
49	11	R59,R60,R95-R103	RES., CHIP, 10K, 1/16W, 5% 0402	VISHAY, CRCW040210K0JNED	2420
50	4	R91,R92,R93,R94	RES., CHIP, 4.99K, 1/10W, 1% 0603	VISHAY, CRCW06034K99FKEA	880
51	9	R104,R119,R120,R129-R131,R133,R140,R142	RES., CHIP, 1K, 1/16W, 5% 0402	VISHAY, CRCW04021K00JNED	1980
52	4	R107,R111,R122,R134	RES., CHIP, 49.9, 1/10W, 1% 0603	VISHAY, CRCW060349R9FKEA	880
53	8	R108,R112,R121,R123,R126,R132,R135,R141	RES., CHIP, 24.9, 1/10W, 1% 0402	VISHAY, CRCW040224R9FKED	1760
54	4	R124,R125,R128,R138	RES., CHIP, 499, 1/10W, 1% 0603	VISHAY, CRCW0603499RFKEA	880
55	1	R175	RES., CHIP, 2.49K, 1/16W, 1% 0402	VISHAY, CRCW04022K49FKED	220
56	1	R177	RES., CHIP, 453, 1/16W, 1% 0402	VISHAY, CRCW0402453RFKED	220
57	1	R178	RES., CHIP, 2.05K, 1/16W, 1% 0402	VISHAY, CRCW04022K05FKED	220
58	4	U2,U3,U5,U13	IC, INVERTER UHS SINGLE SC70-5	FAIRCHILD, NC7SZ04P5X	880
59	1	U4	IC, D-TYPE POS TRG SNGL US8	ON SEMI., NL17SZ74USG	220
60	5	U6,U9,U10,U11,U12	IC, BUS SWITCH SPST SGL LV SC70-5	FAIRCHILD, NC7SZ66P5X	1100
61	1	U7	IC., 0.25ppm NOISE, LOW DRIFT PRECISION REF., MS8	LINEAR TECH., LTC6655BHMS8-5	220
62	1	U8	IC, I/O EXPANDER I2C 8B 20SSOP	NXP, PCF8574TS/3,118	220
63	1	U14	IC., 200mA LDO MICROPWR REGULATORS,SOT23-5	LINEAR TECH., LT1964ES5-SD	220
64	4	U16,U17,U18,U21	IC., 500mA LDO MICROPWR REGULATORS,SO8	LINEAR TECH., LT1763CS8	880
65	1	U19	IC, LINEAR REGULATOR, SO8	LINEAR TECH., LT3021ES8-1.2	220
66	1	U20	IC., 500mA LDO MICROPWR REGULATORS,SO8	LINEAR TECH., LT1763CS8-2.5	220
67	1	U22	IC, CYCLONE III FPGA 5K, EQFP144	ALTERA, EP3C5E144C7N	220
68	1	U23	IC, CONFIG DEVICE 4MBIT, SO8	ALTERA, EPCS4SI8N	220
69	1	U24	IC., EEPROM 2KBIT 400KHZ 8TSSOP	Microchip, 24LC024-I/ST	220
70	4	U25,U26,U27,U28	IC, Op Amp, DFN8DD-3X3	LINEAR TECH., LT6237IDD	880
71	1	U33	IC, Op Amp, TSOT23-6	LINEAR TECH., LT6236IS6	220
72	11	SHUNTS AS SHOWN ON ASSY DWG	CONN.,SHUNT,FEMALE,2-POS.,2.54mm	Wurth Elektronik, 60900213421	2420
73	4	MH1-MH4	STAND-OFF, NYLON, 0.25"	Wurth Elektronik, 70293100C	880
74	2		STENCILS FOR BOTH SIDES	DC2520A-1	2

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Bill Of Materials

Demo Bd. # 2520A1-A

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	110
1	1		DC2520A1-GENERAL BOM		1
2	1	R61	RES., CHIP, 0, 1/10W, 0402	VISHAY, CRCW04020000Z0ED	110
3	1	U1	I.C., 4-CH, QFN32UH-5X5	LINEAR TECH., LTC2344IUH-18	110

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Bill Of Materials
Demo Bd. # 2520A1-B

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Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				NUMBER OF BOARDS =	110
1	1		DC2520A1-GENERAL BOM		1
2	0	R61	RES., 0402	OPT	0
3	1	U1	I.C., 4-CH, QFN32UH-5X5	LINEAR TECH., LTC2344IUH-16	110