

# Linear Technology Corporation

LTC2345IUUK FAMILY

## Bill Of Materials Demo Bd. #2326A-General BOM

3/7/2016 9:29 AM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>340</b>
1	8	C1-C3,C6,C7,C16,C21,C47	CAP., X7R, 0.1uF, 25V,10%, 0603	MURATA, GRM188R71E104KA01D	2720
2	10	C9,C13-C15,C28,C30,C33,C36,C41,C44	CAP., X7R, 1uF, 50V,10%, 0603	Taiyo Yuden, UMK107AB7105KA-T	3400
3	12	C10,C23,C25-C27,C29,C32,C35,C38,C40,C43,C46	CAP., X5R, 10uF 25V, 20%, 0603	MURATA, GRM188R61E106MA73D	4080
4	1	C11	CAP., X7R, 47uF, 10V, 10%, 1210	MURATA, GRM32ER71A476KE15L	340
5	1	C12	CAP., X5R, 2.2uF, 25V, 20%, 0603	TDK, C1608X5R1E225M080AB	340
6	51	C17-C20,C22,C48-C69,C73,C84,C85,C90-C92,C96, C97,C104,C105,C107,C109,C119,C122,C127,C130, C135,C138,C143,C146,C151,C154,C158,C159	CAP., X7R, 0.1uF, 50V,10%, 0402	MURATA, GRM155R71H104KE14D	17340
7	1	C24	CAP., TANT, 47uF 25V, 20%, 7343	AVX, TPSD476M025R0250	340
8	5	C31,C34,C37,C42,C45	CAP., X7R, 0.01uF, 50V, 10%, 0603	MURATA, GRM188R71H103KA01D	1700
9	1	C39	CAP., X5R, 3.3uF 25V, 20%, 0603	TDK, C1608X5R1E335M	340
10	1	C70	CAP., X5R, 47uF 6.3V, 20%, 0805	SAMSUNG, CL21A476MQYNNN	340
11	2	C71,C88	CAP., X5R, 4.7uF, 10V, 10%, 0603	SAMSUNG, CL10A475KP8NNNC	680
12	3	C72,C83,C89	CAP., X7R, 0.01uF, 16V, 10%, 0402	MURATA, GRM155R71C103KA01D	1020
13	17	C74,C94,C95,C102,C103,C110,C111,C123,C124, C131,C132,C139,C140,C147,C148,C155,C156	CAP., C0G, 1000pF, 50V, 5%, 0402	TDK, C1005C0G1H102J050BA	5780
14	3	C75,C76,C77	CAP., X7R, 0.022uF, 50V, 10%, 0402	MURATA, GRM155R71H223KA12D	1020
15	2	C78,C93	CAP., X7R, 4700pF, 50V, 10%, 0402	MURATA, GRM155R71H472KA01D	680
16	4	C79-C82	CAP., C0G, 10pF, 50V, 5%, 0402	MURATA, GRM1555C1H100JA01D	1360
17	1	C86	CAP., X7R, 2200pF, 50V, 10%, 0402	MURATA, GRM155R71H222KA01D	340
18	1	C87	CAP., TANT, 470uF 10V, 20%,7343	AVX, TPSE477M010R0050	340
19	0	C98,C99,C106,C115-C118,C125,C126,C133, C134,C141,C142,C149,C150,C157	CAP., 0402	OPT	0
20	16	C100,C101,C108,C112-C114,C120,C121,C128, C129,C136,C137,C144,C145,C152,C153	CAP., C0G, 39pF, 100V, 5%, 0805	AVX, 08051A390JAT2A	5440
21	1	C160	CAP., X5R, 1uF, 10V,10%, 0402	AVX, 0402ZD105KAT2A	340
22	4	D1-D4	DIODE, SCHOTTKY 30V 0.1A SOD323	DIODES INC., BAT54WS-7-F	1360
23	9	E1,E2,E7-E13	TESTPOINT, TURRET, .064" pbf	MILL-MAX, 2308-2-00-80-00-00-07-0	3060
24	3	E3,E5,E6	TESTPOINT, TURRET, .094" pbf	MILL-MAX, 2501-2-00-80-00-00-07-0	1020
25	6	JP1-JP4,JP13,JP14	HEADER, 2.54 mm 3 PINS STRAIGHT GOLD PLATING	Würth Elektronik, 61300311121	2040
26	8	JP5-JP12	HEADER, 2.54 mm 2 PINS STRAIGHT GOLD PLATING	Würth Elektronik, 61300211121	2720
27	1	JP15	HEADER, 2.54 mm 2x4 STRAIGHT GOLD PLATING	Würth Elektronik, 61300821121	340
28	3	J1,J5,J6	CONN BNC JACK STR 50 OHM PCB	Amphenol Connex, 112404	1020
29	2	J2,J3	HEADER, 2.54 mm 2x5 STRAIGHT GOLD PLATING	Würth Elektronik, 61301021121	680
30	1	J4	CON., Header, 14 Pin, 2mm	MOLEX, 87831-1420	340
31	1	J7	HEADER, 3X8, .100", HD3X8-100	SAMTEC, TSW-108-07-L-T	340
32	1	L1	FERRITE BEAD, 1206	MURATA, BLM31PG391SN1L	340

# Linear Technology Corporation

LTC2345IUUK FAMILY

## Bill Of Materials Demo Bd. #2326A-General BOM

3/7/2016 9:29 AM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>340</b>
33	9	R1,R5,R21,R22,R36,R39,R41,R44,R46	RES., CHIP, 1K, 1/10W, 1% 0603	YAGEO, RC0603FR-071KL	3060
34	15	R2,R3,R6,R8,R10-R20	RES., CHIP, 33, 1/10W, 5% 0603	YAGEO, RC0603JR-0733RL	5100
35	1	R4	RES., CHIP, 49.9, 1/4W, 1% 1206	YAGEO, RC1206FR-0749R9L	340
36	0	R7	RES., 0603	OPT	0
37	1	R9	RES., CHIP, 0, 1/10W, 0603	VISHAY, CRCW06030000Z0EA	340
38	0	R23,R50,R51,R53,R54,R56,R57,R109,R110, R115-R118,R137,R139,R153,R155,R169,R171	RES., 0402	OPT	0
39	40	R24-R31,R33,R49,R52,R62-R90	RES., CHIP, 33, 1/16W, 5% 0402	YAGEO, RC0402JR-0733RL	13600
40	14	R32,R47,R48,R55,R58,R113,R114,R127, R136,R145,R152,R161,R168,R176	RES., CHIP, 0, 1/10W, 0402	YAGEO, RC0402FR-070RL	4760
41	1	R34	RES., CHIP, 2K, 1/10W, 1% 0603	YAGEO, RC0603FR-072KL	340
42	1	R38	RES., CHIP, 5.62K, 1/10W, 1% 0603	YAGEO, RC0603FR-075K62L	340
43	1	R40	RES., CHIP, 1.07K, 1/10W, 1% 0603	YAGEO, RC0603FR-071K07L	340
44	1	R42	RES., CHIP, 1.58K, 1/10W, 1% 0603	YAGEO, RC0603FR-071K58L	340
45	1	R43	RES., CHIP, 3.09K, 1/10W, 1% 0603	YAGEO, RC0603FR-073K09L	340
46	1	R45	RES., CHIP, 1.43K, 1/10W, 1% 0603	YAGEO, RC0603FR-071K43L	340
47	11	R59,R60,R95-R103	RES., CHIP, 10K, 1/16W, 5% 0402	YAGEO, RC0402JR-0710KL	3740
48	4	R91,R92,R93,R94	RES., CHIP, 4.99K, 1/10W, 1% 0603	YAGEO, RC0603FR-074K99L	1360
49	17	R104,R119,R120,R129,R130,R131,R133,R140,R142, R147,R149,R156,R158,R163,R165,R172,R174	RES., CHIP, 1K, 1/16W, 5% 0402	YAGEO, RC0402JR-071KL	5780
50	8	R107,R111,R122,R134,R144,R150,R160,R166	RES., CHIP, 49.9, 1/10W, 1% 0603	VISHAY, CRCW060349R9FKTA	2720
51	16	R108,R112,R121,R123,R126,R132,R135,R141, R143,R148,R151,R157,R159,R164,R167,R173	RES., CHIP, 49.9, 1/10W, 1% 0402	PANASONIC, ERJ-2RKF49R9X	5440
52	8	R124,R125,R128,R138,R146,R154,R162,R170	RES., CHIP, 499, 1/10W, 1% 0603	YAGEO, RC0603FR-07499R	2720
53	1	R175	RES., CHIP, 2.49K, 1/16W, 1% 0402	SAMSUNG, RC1005F2491CS	340
54	1	R177	RES., CHIP, 453, 1/16W, 1% 0402	SAMSUNG, RC1005F4530CS	340
55	1	R178	RES., CHIP, 2.05K, 1/16W, 1% 0402	PANASONIC, ERJ-2RKF2051X	340
56	4	U2,U3,U5,U13	IC, INVERTER UHS SINGLE SC70-5	FAIRCHILD, NC7SZ04P5X	1360
57	1	U4	IC, D-TYPE POS TRG SNGL US8	ON SEMI., NL17SZ74USG	340
58	5	U6,U9,U10,U11,U12	IC, BUS SWITCH SPST SGL LV SC70-5	FAIRCHILD, NC7SZ66P5X	1700
59	1	U7	IC., 0.25ppm NOISE, LOW DRIFT PRECISION REF., MS8	LINEAR TECH., LTC6655BHMS8-5	340
60	1	U8	IC, I/O EXPANDER I2C 8B 20SSOP	NXP, PCF8574TS/3,118	340
61	1	U14	IC., 200mA LDO MICROPWR REGULATORS,SOT23-5	LINEAR TECH., LT1964ES5-SD	340
62	4	U16,U17,U18,U21	IC., 500mA LDO MICROPWR REGULATORS,SO8	LINEAR TECH., LT1763CS8	1360
63	1	U19	IC, LINEAR REGULATOR, SO8	LINEAR TECH., LT3021ES8-1.2	340
64	1	U20	IC., 500mA LDO MICROPWR REGULATORS,SO8	LINEAR TECH., LT1763CS8-2.5	340
65	1	U22	IC, CYCLONE III FPGA 5K, EQFP144	ALTERA, EP3C5E144C7N	340

# Linear Technology Corporation

LTC2345IUK FAMILY

**Bill Of Materials**  
**Demo Bd. #2326A-General BOM**

3/7/2016 9:29 AM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>340</b>
66	1	U23	IC, CONFIG DEVICE 4MBIT, SO8	ALTERA, EPCS4SI8N	340
67	1	U24	IC., EEPROM 2KBIT 400KHZ 8TSSOP	Microchip, 24LC024-I/ST	340
68	8	U25,U26,U27,U28,U29,U30,U31,U32	IC, Op Amp, DFN8DD-3X3	LINEAR TECH., LT6237IDD	2720
69	1	U33	IC, Op Amp, TSOT23-6	LINEAR TECH., LT6236IS6	340
70	14	SHUNTS AS SHOWN ON ASSY DWG	SHUNT, 0.1" CENTER	Würth Elektronik, 60900213421	4760
71	4	MH1-MH4	STAND-OFF, NYLON, 0.25"	KEystone, 8831(SNAP ON)	1360
72	2		STENCILS FOR BOTH SIDES	DC2326A-1	2

# Linear Technology Corporation

LTC2345IUK-18

**Bill Of Materials**

**Demo Bd. # 2326A1-A**

3/7/2016 9:29 AM

<i>Item</i>	<i>Qty</i>	<i>Reference</i>	<i>Part Description</i>	<i>Manufacturer / Part #</i>	<i>Kit Qty</i>
				<b>NUMBER OF BOARDS =</b>	<b>170</b>
1	1		DC2326A1-GENERAL BOM		1
2	1	R61	RES., CHIP, 0, 1/10W, 0402	YAGEO, RC0402FR-070RL	170
3	1	U1	I.C., 8-CH, QFN48UK-7X7	LINEAR TECH., LTC2345IUK-18	170

# Linear Technology Corporation

LTC2345IUK-16

**Bill Of Materials**  
**Demo Bd. # 2326A1-B**

3/7/2016 9:29 AM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>170</b>
1	1		DC2326A1-GENERAL BOM		1
2	0	R61	RES., 0402	OPT	0
3	1	U1	I.C., 8-CH, QFN48UK-7X7	LINEAR TECH., LTC2345IUK-16	170