

# Linear Technology Corporation

**Bill Of Materials**  
**DEMO CIRCUIT 2683A-1**  
3/6/2018 11:09 AM

Item	Qty	Reference	Part Description	Manufacturer / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>100</b>
1	10	CG1-CG8,C5,C6	CAP., 1000pF, X7R, 2KV, 10%, 1808	MURATA, GR442QR73D102KW01L	1000
2	16	CT1-CT16	CAP., 0.01uF, X7R, 100V, 10%, 0805	MURATA, GRM21BR72A103KA01L	1600
3	1	C1	CAP., 47uF, ALUM., 100V, 20%, C-PANA-H13-12.5X13.5	PANASONIC, EEVFK2A470Q	100
4	2	C4,C65	CAP., 0.1uF, X7R, 16V, 10%, 0603	MURATA, GRM188R71C104KA01D	200
5	1	C66	CAP., 1uF, X7R, 100V, 20%, 1812	TDK, C4532X7R2A105M230KA	100
6	2	C67,C69	CAP., 1uF, X5R, 16V, 10%, 0603	AVX, 0603YD105KAT2A	200
7	1	C68	CAP., 220pF, C0G, 50V, 10%, 0603	AVX, 06035A221JAJ2A	100
8	2	D5,D7	LED, ORANGE, CLEAR, 3020 (1208)	ROHM, SML-012D8TT86	200
9	1	D6	LED, RED, CLEAR, 3020 (1208)	ROHM, SML-012V8TT86	100
10	8	D12-D15,D24-D27	LED, GREEN, CLEAR, 3020 (1208)	ROHM, SML-012P8TT86	800
11	2	D18,D20	DIODE, TVS, 58V, SMC-DIODE	LITTELFUSE, 5.0SMDJ58A	200
12	1	D23	DIODE, ZENER, 5.6V, SOT23	FAIRCHILD SEMI., BZX84C5V6LT1G	100
13	14	E1-E10,E17-E20	TEST POINT, TURRET, 0.094", MTG. HOLE	MILL-MAX, 2501-2-00-80-00-00-07-0	1400
14	6	E11-E16	TEST POINT, TURRET, 0.064", MTG. HOLE	MILL-MAX, 2308-2-00-80-00-00-07-0	600
15	1	J1	CONN, JACK, 2X4PORT 8POS, RJ45-TE-5569262-1	TE CONNECTIVITY, 5569262-1	100
16	2	J2,J3	CONN., BANANA JACK, FEMALE, THT	KEYSTONE, 575-4	200
17	1	J6	CONN., HDR., MALE, 2x7, 2mm, THT, VERT	MOLEX, 87831-1420	100
18	1	J7	CONN., SOCKET STRIP, CON-MMS-130-02-T-SV	SAMTEC, MMS-130-02-L-SV	100
19	1	PK	Connector POLARIZATION KEY PIN-J7 PIN 12	SAMTEC, PK-01-07	100
20	8	Q9-Q16	MOSFET, P-CH, -100V, SOT23	DIODES INC., ZVP3310FTA	800
21	3	REP3,REP4,REP5	RES., 5.1k OHMS, 1%, 1/10W, 0603	VISHAY, CRCW06035K10FKEA	300
22	32	RT1-RT32	RES., 75 OHMS, 5%, 1/10W, 0603	VISHAY, CRCW060375R0JNEA	3200
23	2	R1,R2	RES., 10k OHMS, 5%, 1/10W, 0603	VISHAY, CRCW060310K0JNEA	200
24	8	R6,R16,R19,R22,R29,R31,R33,R35	RES., 806k OHMS, 1%, 1/10W, 0603	VISHAY, CRCW0603806KFKEA	800
25	8	R7,R17,R20,R23,R30,R32,R34,R36	RES., 10M OHMS, 1%, 1/10W, 0603	VISHAY, CRCW060310M0FKEA	800
26	9	R8,R18,R21,R24,R26-R28,R37,R38	RES., 20K OHMS, 1%, 1/4W, 1206	VISHAY, CRCW060320K0FKEA	900
27	2	R10,R40	RES., 0 OHM, 1/10W, 0603	VISHAY, CRCW06030000Z0EA	200
28	2	R13,R43	RES., 1k OHMS, 5%, 1/10W, 0603	VISHAY, CRCW06031K00JNEA	200
29	1	R14	RES., 499k OHMS, 1%, 1/10W, 0603	VISHAY, CRCW0603499KFKEA	100
30	1	R15	RES., 316k OHMS, 1%, 1/10W, 0603	VISHAY, CRCW0603316KFKEA	100
31	18	R41,R42,R47-R62	RES., 0 OHM, 1/14W, 1206	VISHAY, CRCW12060000Z0EA	1800
32	1	R46	RES., 1M OHMS, 5%, 1/10W, 0603	VISHAY, CRCW06031M00JNEA	100
33	2	SW1,SW2	SWITCH, MOMENTARY, SW-WE-434123050816	Würth Elektronik, 434123050816	200
34	1	SW3	SWITCH, SLIDE, SW-WE-418117270902	Würth Elektronik, 418117270902	100

35	4	T1-T4	XFMR, LAN, 350uH, TRANS-WE-749022016	Würth Elektronik, 749022016	400
36	1	U1	IC., LINEAR REGULATOR, MSE8	LINEAR TECH., LT3010EMS8E	100
37	1	U2	IC., MEMORY, EEPROM, 2Kb (256x8), TSSOP8	MICROCHIP, 24LC025-I /ST	100
38	4	MH1,MH2,MH3,MH4	STANDOFF, NYLON, SNAP-ON, 0.75"	Würth Elektronik, 702937000	400
39	0	(FOR INVENTORY ONLY)	CABLE ASSY., 8" STRIP	MMT PRECISION CORP., CA-2440	0
40	2	STENCILS	TOOL, STENCIL, DC2683A-1	LINEAR TECH., DC2683A-1	2