

# Linear Technology Corporation

LTC1909-8EG

SMBUS CONTROLLED DC/DC CONVERTER

**BILL OF MATERIALS**

**DC475A-1**

**QTY- 275**

10/28/02

1:36 PM

Item	Qty	Reference	Part Description	ManUFACTURE / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>275</b>
1	7	CIN1-CIN7	CAP, Y5V 10UF 35V,80%,1210	TAIYO YUDEN, GMK325F106ZH	1925
2	4	COUT1-COUT4	CAP., TANT, 180UF 4V, 7343	PANASONIC, EEFUEOG181R	1100
3	1	COUT5	CAP., X5R, 22UF 6.3V, 20%,1210	TAIYO YUDEN, JMK325BJ226MM	275
4	1	C1	CAP., SMT 22UF 25V,SVP-F8	OSCON, 25SVP22M	275
5	6	C2,C6,C10,C11,C16,C18	CAP., X7R 0.1UF 16V 10%	AVX, 0603YC104KAT1A	1650
6	1	C3	CAP., X5R, 0.22UF 16V, 80%,	AVX, 0603YG224ZAT1A	275
7	2	C4,C8	CAP., NPO 100PF 50V 10%	AVX, 06035A101KAT1A	550
8	1	C5	CAP., NPO 470PF 50V 10%	AVX, 06035A471KAT1A	275
9	2	C7,C25	CAP., X5R 4.7UF 6.3V 80%,0805	TAIYO YUDEN, JMK212BJ475MG	550
10	5	C9,C15,C20,C23,C24	CAP., Y5V 4.7UF 25V 80%,1206	TAIYO YUDEN, TMK316F475ZG	1375
11	3	C12,C19,C21	CAP., Y5V 1UF 16V 80%	AVX, 0805YG105ZAT1A	825
12	1	C13	CAP, Y5V 10UF 10V,80%,1206	TAIYO YUDEN, LMK316F106ZL	275
13	2	C14,C17	CAP., X7R 0.01UF 16V 10%	AVX, 0603YC103KAT1A	550
14	1	C22	CAP., NPO 10PF 50V 10%	AVX, 06035A100KAT1A	275
15	1	C26	CAP., X7R 0.001UF 16V 10%	AVX, 0603YC102KAT1A	275
16	1	C27	CAP., X7R 3300PF 50V 10%	AVX, 06035C332KAT1A	275
17	3	D1,D4,D5	DIODE, CMDSH-3, SOD323	CENTRAL, CMDSH-3	825
18	1	D2	DIODE, SCHOTTKY 40V 3A, SMA-DIODE	DIODES INC., B340A	275
19	1	D3	DIODE, MMBZ5231B, SOT23	DIODES INC., MMBZ5231B-7	275
20	2	D6,D7	DIODE, B0540W, SOD123	DIODES INC., B0540W-7	550
21	8	E1-E8	TESTPOINT, TURRET, .094"	MILL-MAX, 2501-2	2200
22	2	JP1,JP2	JMP, 1X3 PINS, .079	COMM CON, 2802S-03G2	550
23	2	SHUNTS FOR JP1 AND JP2	SHUNT, 2 PINS, .079"	COMM CON, CCIJ2mm-138G	550
24	1	J1	CONN, BNC, 5 PINS	CONNEX, 112404	275
25	1	J2	CONN, HD1X5R-MALE, HD1X5R-100	COMM CON, 4301R-05G2	275
26	1	L1	IND, 1.0UH, L-CEP125	SUMIDA, CEP125-1R0MC	275
27	1	L2	IND, 10UH, L-CMD4D08	SUMIDA, CMD4D08-100	275
28	1	L3	IND, 10UH, L-CLS62	SUMIDA, CLS62-100 (6328-TO64)	275
29	4	Q1,Q2,Q3,Q4	TRANS, MOSFET, Si4884DY, SO8	SILICONIX, Si4884DY	1100
30	0	Q5	TRANS, MOSFET, Si4884DY, SO8	<b>OPT</b>	<b>0</b>
31	1	Q6	TRANS, SUD50N03-07, DPAK-TO252AA	SILICONIX, SUD50N03-07	275
32	3	R1,R2,R3	RES., CHIP 100K 1/16W 1%	AAC, CR16-1003FM	825
33	3	R4,R5,R26	RES., CHIP 0 1/16W 5%	AAC, CJ06-000JM	825
34	1	R6	RES., CHIP 11K 1/16W 5%	AAC, CR16-113JM	275

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				<b>NUMBER OF BOARDS =</b>	<b>275</b>
35	2	R7,R13	RES., CHIP 39K 1/16W 5%	AAC, CR16-393JM	550
36	1	R8	RES., CHIP 1 1/16W 5%	AAC, CR16-1R0JM	275
37	1	R9	RES., CHIP 20K 1/16W 1%	AAC, CR16-2002FM	275
38	1	R10	RES., CHIP 301K 1/16W 1%	AAC, CR16-3013FM	275
39	1	R11	RES., CHIP 1M 1/16W 1%	AAC, CR16-1004FM	275
40	1	R12	RES., CHIP 390K 1/16W 5%	AAC, CR16-394JM	275
41	1	R14	RES., CHIP 15K 1/16W 5%	AAC, CR16-153JM	275
42	3	R15,R16,R21	POT, 50K, 1 TURN, RPOT-BOURNS-3313J	BOURNS, 3313J-1-503E	825
43	1	R17	RES., CHIP 1.5K 1/16W 5%	AAC, CR16-152JM	275
44	2	R18,R19	RES., LRF 0.01 1W 5%	IRC, LRF2512-01-R010-J	550
45	1	R20	RES., CHIP 2K 1/16W 5%	AAC, CR16-202JM	275
46	1	R22	RES., CHIP 1K 1/16W 5%	AAC, CR16-102JM	275
47	1	R23	RES., CHIP 115K 1/16W 1%	AAC, CR16-1153FM	275
48	1	R24	RES., CHIP 13.3K 1/16W 1%	AAC, CR16-1332FM	275
49	1	R25	RES., CHIP 10K 1/16W 5%	AAC, CR16-103JM	275
50	0	R27	RES., 0603	TBD	0
51	1	U1	I.C., LTC1909-8EG, SSOP28G	LINEAR TECH., LTC1909-8EG	275
52	1	U2	I.C., LT1361CS8, SO8	LINEAR TECH., LT1361CS8	275
53	1	U3	I.C., LT1210CR, DDPK-R-7P	LINEAR TECH., LT1210CR	275
54	1	U4	I.C., TLC555CD, SO8	TEXAS INST., TLC555CD	275
55	1	U5	I.C., LT1930ES5, SOT23-5	LINEAR TECH., LT1930ES5	275
56	1	VR1	I.C., LT1004CZ, 1.2V, TO92	LINEAR TECH., LT1004CZ-1.2	275
57	4	FOR MTGS AT 4 CORNERS	SCREW, #4-40, 1/4"	ANY	1100
58	4	FOR MTGS AT 4 CORNERS	STANDOFF, NYLON HEX #4-40 1/2"	MICROPLASTICS, 14HTSP003	1100
		<b>NOTES: UNLESS OTHERWISE SPECIFIED</b>			
		<b>1. ALL RESISTORS ARE IN OHMS.</b>			
		<b>2. INSTALL 4 STAND OFF COMPONENTS AT 4 CORNERS OF BOARD ON THE BOTTOM SIDE.</b>			
		<b>3. INSTALL SHUNTS ON JP1-JP3 PIN 2 AND 3.</b>			