

Linear Technology Corporation

LTC3731CG

3-PHASE HIGH EFFICIENCY 60A POWER SUPPLY

ENG: MICHAEL SHRIVER

BILL OF MATERIALS

DC438A-3

QTY-325

5/12/03

10:39 AM

Item	Qty	Reference	Part Description	Manufacture / Part #	Kit Qty
				NUMBER OF BOARDS =	325
1	1	CIN1	CAP., TRH HOLE 270uF 16V,C200D420	OSCON, 16SP270M	325
2	0	CIN2,CIN3	CAP., TRH HOLE 270uF 16V,C200D420	OSCON, 16SP270M	0
3	6	CIN4,CIN5,CIN6,C16,C18,C20	CAP., X5R 10UF 16V, 20%, 1210	TAIYO YUDEN, EMK325BJ106MNT	1950
4	0	CIN7,CIN8,CIN9	CAP., 1210	TBD	0
5	0	COUT1,COUT2,COUT9,COUT10	CAP., 7343	OPT	0
6	6	COUT3-COUT8	CAP., 330UF 4V,7343	SANYO, 4TPD330M	1950
7	4	C1,C11,C44,C47	CAP., X5R 1UF 10V,0603	TAIYO YUDEN, JMK107BJ105MA	1300
8	4	C2,C23,C29,C35	CAP., X7R 0.01UF 16V 10%	AVX, 0603YC103KAT1A	1300
9	5	C3,C4,C5,C6,C53	CAP., X7R 1000PF 50V 10%	AVX, 06035C102KAT1A	1625
10	8	C7,C26,C28,C32-C34,C37,C45	CAP., X7R 0.1UF 16V 10%	AVX, 0603YC104KAT1A	2600
11	1	C8	CAP., X7R 1500PF 50V 10%	AVX, 06035C152KAT1A	325
12	2	C9,C36	CAP., NPO 100PF 50V 10%	AVX, 06035A101KAT1A	650
13	3	C10,C13,C14	CAP., X7R 0.22UF 10V 10%	AVX, 0603ZC224KAT1A	975
14	7	C12,C25,C27,C39,C42,C43,C46	CAP., X7R 4.7UF 16V, 20%, 1206	TAIYO YUDEN, EMK316BJ475MLT	2275
15	4	C15,C17,C19,C38	CAP., X7R 1UF 16V,1206	TAIYO YUDEN, EMK212BJ105MG	1300
16	0	C21	CAP., 0603	TBD	0
17	1	C22	CAP., NPO 47PF 50V 10%	AVX, 06035A470KAT1A	325
18	5	C30,C31,C54,C55,C56	CAP., X7R 22UF 6.3V, 20%, 1206	TAIYO YUDEN, JMK316BJ226MLT	1625
19	1	C40	CAP., X7R 1UF 25V 80%	AVX, 12063C105ZAT1A	325
20	1	C41	CAP., NPO 10PF 50V 10%	AVX, 06035A100KAT1A	325
21	5	C48-C52	CAP., X5R 47UF 6.3V, 20%, 1812	TAIYO YUDEN, JMK432BJ476MM	1625
22	1	D1	DIODE,Schottky, SOT23	DIODES, BAT54A	325
23	3	D2,D4,D5	DIODE, SCHOTTKY 40V 3A, SMA-DIODE	DIODES INC., B340A-13	975
24	1	D3	DIODE,Schottky, SOT23	DIODES, BAT54	325
25	2	D6,D8	DIODE, SCHOTTKY RECTIFIER 0.5A,SOD123	DIODES INC., B0540W	650
26	1	D7	DIODE, MMBZ5231BLT1, SOT23	ON SEMI., MMBZ5231BLT1	325
27	2	D9,D10	DIODE, CMDSH-3, SOD323	CENTRAL, CMDSH-3	650
28	9	E1-E9	TESTPOINT, TURRET, .094"	MILL-MAX, 2501-2	2925
29	7	JP1-JP7	JMP, 1X3 PINS, .079"	COMM, 2802S-03G2	2275
30	7	SHUNTS FOR JP1-JP7	SHUNT, 2 PINS, .079"	COMM CON., CCIJ2mm-138G	2275
31	4	J1,J2,J3,J4	STUD, TEST PIN	PEM KFH-032-10	1300
32	8	FOR J1-J4	NUT, BRASS NUTS # 10-32	ANY #10-32	2600
33	4	FOR J1-J4	RING, LUG RING # 10	KEYSTONE #10	1300
34	4	FOR J1-J4	WASHER, TIN PLATED BRASS	ANY #10	1300

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				NUMBER OF BOARDS =	325
35	2	J5,J6	CONN, BNC, 5 PINS	CONNEX, 112404	650
36	3	L1,L2,L3	IND, 0.8uH,L-CEP125	SUMIDA, CEP125-0R8NC-U	975
37	1	L4	IND POWER, 10UH, L-CMD4D08	SUMIDA, CMD4D08-100	325
38	1	L5	IND, 10UH, L-CLS62	SUMIDA, CLS62-100 (6328-TO64)	325
39	3	Q1,Q6,Q10	TRANS, N-CHANNEL, SO8-POWERPAK	SILICONIX, Si7860DP	975
40	0	Q2,Q5,Q9	TRANS, OPT, SO8-POWERPAK	OPT	0
41	6	Q3,Q4,Q7,Q8,Q11,Q12	TRANS, N-CHANNEL, SO8-POWERPAK	SILICONIX, Si7892DP	1950
42	1	Q13	TRANS, SUD50N03-07, DPAK-TO252AA	SILICONIX, SUD50N03-07	325
43	7	R1,R10-R15	RES., Chip 10 1/16W 5%	AAC CR16-100JM	2275
44	2	R2,R36	RES., Chip 1K 1/16W 5%	AAC CR16-102JM	650
45	1	R3	RES., Chip 7.50K 1/16W 5%	AAC CR16-752JM	325
46	1	R4	RES., Chip 2.43K 1/16W 1%	AAC CR16-2431FM	325
47	4	R5,R6,R35,R43	RES., Chip 10.0K 1/16W 1%	AAC CR16-1002FM	1300
48	1	R7	RES., Chip 20.0K 1/16W 1%	AAC CR16-2002FM	325
49	1	R8	RES., Chip 16.9K 1/16W 1%	AAC CR16-1692FM	325
50	1	R9	RES., Chip 13.3K 1/16W 1%	AAC CR16-1332FM	325
51	1	R16	RES., Chip 4.75K 1/16W 1%	AAC CR16-4751FM	325
52	1	R17	RES., Chip 121K 1/16W 1%	AAC CR16-1213FM	325
53	1	R18	RES., Chip 357K 1/16W 1%	AAC CR16-3573FM	325
54	0	R19,R31	RES., 0603	TBD	0
55	1	R20	RES., Chip 1 1/16W 5%	AAC CR16-1R0JM	325
56	1	R21	RES., Chip 100K 1/16W 1%	AAC CR16-1003FM	325
57	0	R22,R24,R26	RES., 2512	TBD	0
58	3	R23,R25,R27	RES., 0.002 1W 5%, 2512	PANASONIC ERJM1WTJ2M0U	975
59	2	R28,R29	RES., Chip 51.1 1/16W 1%	AAC CR16-51R1FM	650
60	1	R30	RES., Chip 499K 1/16W 1%	AAC CR16-4993FM	325
61	1	R32	RES., Chip 1.5K 1/16W 5%	AAC CR16-152JM	325
62	3	R33,R34,R38	POT, 50K, 1TURN, G3A	BI, 22AR50K	975
63	1	R37	RES., Chip 15K 1/16W 5%	AAC CR16-153JM	325
64	1	R39	RES., Chip 2K 1/16W 5%	AAC CR16-202JM	325
65	2	R40,R42	RES., LRF 0.01 1W 5%	IRC LRF2512-01-R010-J	650
66	1	R41	RES., Chip 39K 1/16W 5%	AAC CR16-393JM	325
67	1	R44	RES., Chip 115K 1/16W 1%	AAC CR16-1153FM	325
68	1	U1	I.C., LTC3731CG, SSOP36G	LINEAR TECH., LTC3731CG	325

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69	1	U2	I.C., TLC555CD, SO8	TEXAS INST., TLC555CD	325
70	1	U3	I.C., LT1361CS8, SO8	LINEAR TECH., LT1361CS8	325
71	1	U4	I.C., LT1210CR, DDPAK-R-7P	LINEAR TECH., LT1210CR	325
72	1	U5	I.C., LT1460HCS3-2.5, SOT23	LINEAR TECH., LT1460HCS3-2.5	325
73	1	U6	I.C., LT1930ES5, SOT23-5	LINEAR TECH., LT1930ES5	325
74	1	U7	I.C., LT1761ES5-5, SOT23-5	LINEAR TECH., LT1761ES5-5	325
75	4	FOR MTGS AT 4 CORNERS	SCREW, #4-40, 1/4"	ANY	1300
76	4	FOR MTGS AT 4 CORNERS	STANDOFF, NYLON HEX #4-40 1/2"	MICROPLASTICS, 14HTSP003	1300
		NOTES: UNLESS OTHERWISE SPECIFIED			
		1. ALL RESISTORS ARE IN OHMS, 0603.			
		2. INSTALL SHUNTS ON JP1-JP7 PIN 2 AND 3.			