

Linear Technology Corporation

LTC3734EUH

SINGLE PHASE IMVP4 POWER SUPPLY

ENG: WEI CHEN

BILL OF MATERIALS

DC538A-2

QTY-300

1/24/03

10:27 AM

Item	Qty	Reference	Part Description	Manufacture / Part #	Kit Qty
				NUMBER OF BOARDS =	300
1	1	CIN1	CAP., TRH HOLE 56UF 25V,C200D420	OSCON, 25SP56M	300
2	0	CIN2,CIN7	CAP., Y5V 10UF 35V,1210	OPT	0
3	4	CIN3-CIN6	CAP., Y5V 10UF 35V,1210	TAIYO YUDEN, GMK325F106ZH	1200
4	0	CO1,CO6	CAP., SP 270UF 2V,7343	OPT	0
5	4	CO2,CO3,CO4,CO5	CAP., SP 270UF 2V,7343	PANASONIC, EEFUE0D271R	1200
6	36	C1,C42-C76	CAP., X5R, 10UF 6.3V, 20%, 0805	TDK, C2012X5R0J106M	10800
	36	OR		MURATA, GRM21BR60J106K	10800
7	3	C2,C7,C10	CAP., X5R 1UF 6.3V 80%	TAIYO YUDEN, JMK107BJ105ZF	900
8	0	C3,C16	CAP, 0603	OPT	0
9	5	C4,C5,C17,C22,C92	CAP., NPO 100PF 50V 10%	AVX, 06035A101KAT1A	1500
10	1	C6	CAP., X7R 0.22UF 10V 10%	AVX, 0603ZC224KAT1A	300
11	1	C11	CAP., X5R 4.7UF 6.3V, 20%, 0805	TAIYO YUDEN, JMK212BJ475MGT	300
12	1	C12	CAP., X7R 1000PF 50V 10%	AVX, 06035C102KAT1A	300
13	1	C15	CAP., X7R 680PF 50V 10%	AVX, 06035C681KAT1A	300
14	1	C18	CAP., NPO 220PF 50V 10%	AVX, 06035A221KAT1A	300
15	7	C19,C25-C28,C31,C33	CAP., X7R 0.1UF 16V 10%	AVX, 0603YC104KAT1A	2100
16	1	C20	CAP., X5R 100UF 6.3V,1812	TDK C4532X5R0J107M	300
17	4	C21,C30,C38,C41	CAP., X7R 4.7UF 16V, 20%, 1206	TAIYO YUDEN, EMK316BJ475MLT	1200
18	1	C23	CAP., X7R 22UF 6.3V, 20%, 1210	TAIYO YUDEN, JMK325BJ226MMT	300
19	2	C24,C40	CAP., Y5V 1UF 16V 80%	AVX, 0805YG105ZAT1A	600
20	2	C29,C32	CAP., X7R 0.01UF 16V 10%	AVX, 0603YC103KAT1A	600
21	2	C34,C36	CAP., X7R 1UF 25V, 10%	AVX, 12063C105KAT1A	600
22	1	C35	CAP., Y5V 4.7UF 35V, 20%, 1206	TAIYO YUDEN, GMK316F475ZG	300
23	1	C37	CAP., Y5V 2.2UF 6.3V, 80%,0603	TAIYO YUDEN, JMK107F225ZA	300
24	1	C39	CAP., NPO 10PF 50V 10%	AVX, 06035A100KAT1A	300
25	0	C77-C87	CAP., X7R, 2.2UF 6.3V, 10%, 0612	OPT	0
26	4	C88-C91	CAP., X7R, 2.2UF 6.3V, 10%, 0612	TDK, C1632X7R0J225K	1200
27	3	D1,D7,D8	DIODE, CMDSH-3, SOD323	CENTRAL, CMDSH-3	900
28	1	D2	DIODE, SCHOTTKY 40V 3A, SMA-DIODE	DIODES INC., B340A-13	300
29	2	D3,D9	DIODE, SCHOTTKY RECTIFIER 0.5A,SOD123	DIODES INC., B0540W-7	600
30	0	D4	DIODE, SWITCHING 350mW,SOT23	OPT	0
31	0	D5	DIODE SCHOTTKY,SOT23	OPT	0
32	1	D6	DIODE, MMBZ5231BLT1, SOT23	ON SEMI., MMBZ5231BLT1	300
33	1	D10	DIODE, ZENER,SOT23	DIODES INC., BZX84C3V3-7	300

Linear Technology Corporation

LTC3734EUH

SINGLE PHASE IMVP4 POWER SUPPLY

ENG: WEI CHEN

BILL OF MATERIALS

DC538A-2

QTY-300

1/24/03

10:27 AM

Item	Qty	Reference	Part Description	Manufacture / Part #	Kit Qty
				NUMBER OF BOARDS =	300
34	1	D11	DIODE SCHOTTKY,SOT23	DIODES INC., BAT54C-7	300
35	13	E1-E13	TESTPOINT, TURRET, .094"	MILL-MAX, 2501-2	3900
36	15	JP1-JP15	JMP, 1X3 PINS, .079	COMM, 2802S-03G2	4500
37	15	SHUNTS FOR JP1-JP15	SHUNT, 2 PINS, .079"	COMM CON., CCIJ2mm-138G	4500
38	2	J1,J2	HEADER, 2X20PIN, 0.079CC	COMM CON, 2202S-40G2	600
39	2	J3,J4	STUD, TEST PIN	PEM KFH-032-10	600
40	4	FOR J3,J4	NUT, BRASS NUTS # 10-32	ANY #10-32	1200
41	2	FOR J3,J4	RING, LUG RING # 10	KEYSTONE #10	600
42	2	FOR J3,J4	WASHER, TIN PLATED BRASS	ANY #10	600
43	2	J5,J6	CONN, BNC, 5 PINS	CONNEX, 112404	600
44	1	L1	IND, 0.8uH, L-CDEP105	SUMIDA, CDEP105-0R8MC-88	300
45	1	L2	IND, 10UH, L-CLS62	SUMIDA, CLS62-100 (6328-TO64)	300
46	1	L3	IND POWER, 10UH, L-CMD4D08	SUMIDA, CMD4D08-100	300
47	3	Q1,Q3,Q4	MOSFET, N-CH, S08-POWERPAK	IR, IRF7811W	900
48	0	Q2,Q5	MOSFET, N-CH, S08-POWERPAK	OPT	0
49	2	Q6,Q8	TRANS, NPN, MMBT3904, SOT23	DIODES, MMBT3904	600
50	1	Q7	TRANS, N-CH, 2N7002, SOT23	DIODES, 2N7002	300
51	1	Q9	MOSFET, N-CH, SOT563F	SILICONIX, Si1034X	300
52	1	Q10	TRANS, SUD50N03-07,DPAK-TO252AA	SILICONIX, SUD50N03-07	300
53	3	R1,R11,R12	RES., Chip 10 1/16W 1%,0603	AAC CR16-10R0FM	900
54	0	R2,R17,R20,R22,R35,R36,R53	RES., 0603	OPT	0
55	3	R3,R8,R15	RES., Chip 0 1/16W 5%,0603	AAC CJ16-000M	900
56	1	R4	RES., 0.002 1W 5%, 2512	PANASONIC ERJM1WTJ2M0U	300
57	2	R5,R18	RES., Chip 1.27M 1/16W 1%,0603	AAC CR16-1274FM	600
58	3	R6,R52,R55	RES., Chip 13.3K 1/16W 1%,0603	AAC CR16-1332FM	900
59	2	R7,R9	RES., Chip 1 1/16W 5%,0603	AAC CR16-1R0JM	600
60	2	R10,R21	RES., Chip 12.7K 1/16W 1%,0603	AAC CR16-1272FM	600
61	1	R13	RES., Chip 37.4K 1/16W 1%,0603	AAC CR16-3742FM	300
62	1	R14	RES., Chip 80.6K 1/16W 1%,0603	AAC CR16-8062FM	300
63	1	R16	RES., Chip 56.2K 1/16W 1%,0603	AAC CR16-5622FM	300
64	1	R19	RES., Chip 3K 1/16W 5%,0603	AAC CR16-302JM	300
65	13	R23-R29,R31-R33,R37,R60,R65	RES., Chip 100K 1/16W 1%,0603	AAC CR16-1003FM	3900
66	1	R30	RES., Chip 20K 1/16W 5%,0603	AAC CR16-203JM	300
67	3	R34,R48,R49	RES., Chip 10K 1/16W 1% ,0603	AAC CR16-1002FM	900

Linear Technology Corporation

LTC3734EUH

SINGLE PHASE IMVP4 POWER SUPPLY

ENG: WEI CHEN

BILL OF MATERIALS

DC538A-2

QTY-300

1/24/03

10:27 AM

Item	Qty	Reference	Part Description	Manufacture / Part #	Kit Qty
				NUMBER OF BOARDS =	300
68	1	R38	RES., Chip 39K 1/16W 5%,0603	AAC CR16-393JM	300
69	1	R39	RES., Chip 15K 1/16W 1%,0603	AAC CR16-1502FM	300
70	3	R40,R41,R46	POT, 50K, 1TURN, RPOT-3313J	BOURNS, 3313J-1503E	900
71	1	R42	RES., Chip 1.5K 1/16W 5%,0603	AAC CR16-152JM	300
72	2	R43,R44	RES., LRF 0.01 1W 5%,2512	IRC LRF2512-01-R010-J	600
73	2	R45,R58	RES., Chip 2K 1/16W 1%,0603	AAC CR16-2001FM	600
74	1	R47	RES., Chip 1K 1/16W 5%,0603	AAC CR16-102JM	300
75	1	R50	RES., Chip 220 1/16W 5%,0603	AAC CR16-221JM	300
76	1	R51	RES., Chip 115K 1/16W 1%,0603	AAC CR16-1153FM	300
77	1	R54	RES., Chip 2.32K 1/16W 1%,0603	AAC CR16-2321FM	300
78	3	R56,R57,R61	RES., Chip 1M 1/16W 1%,0603	AAC CR16-1004FM	900
79	1	R59	RES., Chip 1.91K 1/16W 1%,0603	AAC CR16-1911FM	300
80	1	R62	RES., Chip 4.12K 1/16W 1%,0603	AAC CR16-4121FM	300
81	1	R63	RES., Chip 249K 1/16W 1%,0603	AAC CR16-2493FM	300
82	1	R64	RES., Chip 43.2K 1/16W 1%,0603	AAC CR16-4322FM	300
83	1	U1	I.C., LTC3734EUH, QFN5X5-32L	LINEAR TECH., LTC3734EUH	300
84	1	U2	I.C., LT1361CS8, SO8	LINEAR TECH., LT1361CS8	300
85	1	U3	I.C., LT1210CR, DDPACK-R-7P	LINEAR TECH., LT1210CR	300
86	1	U4	I.C., TLC555ID, SO8	TEXAS INST., TLC555ID	300
87	1	U5	I.C., LT1460HCS3-2.5, SOT23	LINEAR TECH., LT1460HCS3-2.5	300
88	1	U6	I.C., LT3010EMS8E,MSOP8	LINEAR TECH., LT3010EMS8E	300
89	1	U7	I.C., LT1930ES5, SOT23-5	LINEAR TECH., LT1930ES5	300
90	0	U8	I.C., CPU SOCKET 480 PIN	INTEL	0
91	0	U9	I.C., INTERPOSER 480 PIN	INTEL	0
NOTES: UNLESS OTHERWISE SPECIFIED					
1. ALL RESISTORS ARE IN OHMS.					
2. INSTALL SHUNTS ON JP1-JP15 PIN 1 AND 2.					