

# Linear Technology Corporation

## LTC3785EUF

10W BUCK-BOOST SYNCHRONOUS CONVERTER

ENG: DAVID BURGOON (23-30)

## BILL OF MATERIALS

DC957A-1

QTY-175

8/29/2007

1:48 PM

Item	Qty	Reference	Part Description	Manufacture / Part #	Kit Qty
				<b>NUMBER OF BOARDS =</b>	<b>175</b>
1	1	C1	CAP, X7R, 2200pF 50V, 10%,0402	AVX, 04025C222KAT2A	175
2	1	C2	CAP, NP0, 220pF 50V, 5%,0402	AVX, 04025A221JAT2A	175
3	1	C3	CAP, NP0, 10pF 50V, 5%,0402	AVX, 04025A100JAT2A	175
4	1	C4	CAP, NP0, 470pF 50V, 5%,0402	TDK, C1005C0G1H471J	175
5	0	C5	CAP., 0402	OPT	0
6	4	C6,C10,C11,C15	CAP., X7R 0.1UF 16V, 10%, 0402	TDK, C1005X7R1C104K	700
7	1	C7	CAP., X5R 4.7UF 6.3V, 20%, 0603	TDK, C1608X5R0J475M	175
8	2	C8,C9	CAP., X5R, 0.22UF 10V, 20%, 0402	TDK, C1005X5R1A224M	350
9	1	C12	CAP., X7R, 22UF 16V, 10%, 1210	TDK, C3225X7R1C226K	175
10	1	C13	CAP., ELECT., 220UF 16V	SANYO, 16CV220KX	175
11	1	C14	CAP., X5R 47UF 6.3V, 20%, 1210	TDK, C3225X5R0J476M	175
12	1	C16	CAP., POSCAP, 150UF 6.3V, 6032	SANYO, 6TPE150MIC2	175
13	2	D1,D2	DIODE, SCHOTTKY, SOD323	CENTRAL SEMI., CMDSH-3-LTC	350
14	1	D3	DIODE, SCHOTTKY, SOD323F	PHILIPS SEMI., PMEG2020EJ T/R	175
15	1	D4	DIODE, SCHOTTKY, SOD123F	PHILIPS SEMI., PMEG1030EH T/R	175
16	7	E1,E2,E3,E5,E6,E7,E8	TESTPOINT, TURRET, .064"	MILL-MAX, 2308-2	1225
17	1	L1	IND, FIXED, 2.2UH	TDK, RLF7030T-2R2M5R4	175
18	0	L2	IND, DO1813HC	OPT	0
19	2	Q2,Q1	MOSFET, DUAL N-CH, SO8	FAIRCHILD, FDS6894A	350
20	2	R5,R1	RES., CHIP, 215K, 1/16W, 1%, 0402	VISHAY, CRCW04022153F	350
21	3	R2,R9,R10	RES., CHIP, 10K, 1/16W, 1%, 0402	VISHAY, CRCW04021002F	525
22	2	R6,R3	RES., CHIP, 127K, 1/16W, 1%, 0402	VISHAY, CRCW0402127KFKED	350
23	1	R4	RES., CHIP, 31.6K, 1/16W, 1%, 0402	VISHAY, CRCW040231K6FKED	175
24	1	R7	RES., CHIP, 42.2K, 1/16W, 1%, 0402	VISHAY, CRCW04024222F	175
25	1	R8	RES., CHIP, 49.9K, 1/16W, 1%, 0402	VISHAY, CRCW040249K9FKED	175
26	0	R12	RES., 0402	OPT	0
27	1	U1	I.C., LTC3785EUF, QFN24UF	LINEAR TECH., LTC3785EUF	175
28	4		STAND-OFF, NYLON (SNAP ON), 0.50" TALL	KEYSTONE, 8833(SNAP ON)	700
29	2		STENCILS BOTH SIDES	DC957A	2