

Linear Technology Corporation

LTC3833EFE

WIDE INPUT RANGE, HIGH EFFICIENCY STEP-DOWN DC-DC CONVERTER

ENG: MIKE SHRIVER (23-30)

BILL OF MATERIALS
DC1516A2-GENERAL BOM

QTY- 300

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| Item | Qty | Reference | Part Description | Manufacturer / Part # | Kit Qty |
|------|-----|--------------------------|--|-----------------------------------|------------|
| | | | | NUMBER OF BOARDS = | 300 |
| 1 | 2 | CIN1,CIN2 | CAP., X7R, 10uF 25V, 20%, 1210 | TDK, C3225X7R1E106MT | 600 |
| 2 | 0 | CIN3 | CAP., 1210 | OPT | 0 |
| 3 | 2 | CIN4,CIN5 | CAP., SVPD, 47uF, 35V, 20%, C-OSCON-SVPD-F12 | SANYO, 35SVPD47M | 600 |
| 4 | 2 | COUT1,COUT2 | CAP., X5R, 100uF 6.3V, 20%, 1206 | MURATA, GRM31CR60J107ME39L | 600 |
| 5 | 2 | COUT4,COUT3 | CAP., POSCAP, 330uF, 2.5V, 20%, 7343 | SANYO, 2R5TPE330M9 | 600 |
| 6 | 0 | COUT5,COUT6 | CAP., 1206 | OPT | 0 |
| 7 | 2 | C1,C8 | CAP., X7R, 0.1uF, 25V, 20%, 0603 | AVX, 06033C104MAT2A | 600 |
| 8 | 0 | C3 | CAP., 0805 | OPT | 0 |
| 9 | 0 | C4,C11 | CAP., 0603 | OPT | 0 |
| 10 | 1 | C5 | CAP., X5R, 4.7uF, 16V, 10%, 0805 | KEMET, C0805C475K4PAC | 300 |
| 11 | 1 | C6 | CAP., C0G, 68pF, 50V, 10%, 0603 | AVX, 06035A680KAT2A | 300 |
| 12 | 1 | C7 | CAP., X7R, 0.01uF, 16V, 10%, 0603 | AVX, 0603YC103KAT2A | 300 |
| 13 | 1 | C9 | CAP., C0G, 470pF, 50V, 10%, 0603 | AVX, 06035A471KAT2A | 300 |
| 14 | 1 | C10 | CAP., X7R, 1uF, 16V, 10%, 0603 | AVX, 0603YC105KAT2A | 300 |
| 15 | 1 | D1 | DIODE, SCHOTTKY, 30V, SOD323 | CENTRAL SEMI., CMDSH3-TR | 300 |
| 16 | 0 | D2 | DIODE, SMA | OPT | 0 |
| 17 | 10 | E1-E10 | TESTPOINT, TURRET, .094" | MILL-MAX, 2501-2-00-80-00-00-07-0 | 3000 |
| 18 | 2 | JP1,JP2 | JMP, 3PIN 1 ROW .079CC | SAMTEC, TMM-103-02-L-S | 600 |
| 19 | 4 | J1,J2,J3,J4 | JACK, BANANA | KEYSTONE, 575-4 | 1200 |
| 20 | 2 | J6,J5 | CONN,BNC,5 PINS | CONNEX, 112404 | 600 |
| 21 | 1 | Q1 | MOSFET, POWER N-CH, LFPK | RENESAS, RJK0305DPB | 300 |
| 22 | 1 | Q2 | MOSFET, POWER N-CH, LFPK | RENESAS, RJK0330DPB | 300 |
| 23 | 0 | Q4,Q3 | MOSFET, POWER N-CH, LFPK | OPT | 0 |
| 24 | 1 | Q5 | MOSFET, N-CH 30-V (D-S), DPAK-TO252AA | VISHAY SILICONIX, SUD50N03-12P | 300 |
| 25 | 1 | R1 | RES., CHIP, 100K, 1/16W, 5%, 0603 | VISHAY, CRCW0603100KJKEA | 300 |
| 26 | 3 | R2,R12,R24 | RES., CHIP, 0 , 1/16W, 0603 | VISHAY, CRCW06030000Z0EA | 900 |
| 27 | 2 | R4,R5 | RES., CHIP, 10, 1/16W, 5%, 0603 | VISHAY, CRCW0603210R0JNEA | 600 |
| 28 | 1 | R10 | RES., CHIP, 15K, 1/16W, 1%, 0603 | VISHAY, CRCW060315K0FKEA | 300 |
| 29 | 3 | R11,R20,R23 | RES., CHIP, 10K, 1/16W, 1%, 0603 | VISHAY, CRCW060310K0FKEA | 900 |
| 30 | 1 | R13 | RES., CHIP, 2.2, 1/16W, 5%, 0603 | VISHAY, CRCW06032R20JNEA | 300 |
| 31 | 0 | R14,R19,R21,R25 | RES., CHIP, 0603 | OPT | 0 |
| 32 | 1 | R15 | RES., CHIP, 33.2k, 1/16W, 5%, 0603 | VISHAY, CRCW060333K2JNEA | 300 |
| 33 | 1 | R18 | RES., CHIP, 137K, 1/16W, 1%, 0603 | VISHAY, CRCW0603137KFKEA | 300 |
| 34 | 1 | R22 | RES., CHIP, 0.01, 2010 | IRC, LR2010-01-R010-G | 300 |
| 35 | 1 | U1 | IC., LTC3833EFE, TSSOP20FE-CB | LINEAR TECH., LTC3833EFE | 300 |
| 36 | 2 | SHUNTS FOR JP1&JP2 (1&2) | SHUNT, .079" CENTER | SAMTEC, 2SN-BK-G | 600 |
| 37 | 4 | MH1-MH4 | STAND-OFF, NYLON 0.50" | KEYSTONE, 8833 (SNAP-ON) | 1200 |
| 38 | 2 | | STENCILS FOR BOTH SIDES | DC1516A-2 | 2 |

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WIDE INPUT RANGE, HIGH EFFICIENCY STEP-DOWN DC-DC CONVERTER

ENG: MIKE SHRIVER (23-30)

BILL OF MATERIALS

DC1516A2-A

QTY- 150

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| <i>Item</i> | <i>Qty</i> | <i>Reference</i> | <i>Part Description</i> | <i>Manufacturer / Part #</i> | <i>Kit Qty</i> |
|-------------|------------|------------------|------------------------------------|---------------------------------|----------------|
| | | | | | |
| | | | | NUMBER OF BOARDS = | 150 |
| | | | | | |
| 1 | 1 | C2 | CAP., X7R, 0.1uF, 16V, 10%, 0603 | AVX, 0603YC104KAT2A | 150 |
| 2 | 1 | L1 | IND, PWR, 0.56uH, L-IHLP4040DZ-01 | VISHAY DALE, IHLP4040DZERR56M01 | 150 |
| 3 | 1 | R3 | RES., CHIP, 4.02K, 1/16W, 1%, 0603 | VISHAY, CRCW06034K02FKEA | 150 |
| 4 | 0 | R6,R8,R16 | RES., 0603 | OPT | 0 |
| 5 | 1 | R7 | RES., CHIP, 13.3K, 1/16W, 1%, 0603 | VISHAY, CRCW060313K3FKEA | 150 |
| 6 | 2 | R9,R17 | RES., CHIP, 0 , 1/16W, 0603 | VISHAY, CRCW06030000Z0EA | 300 |
| 7 | 1 | RS1 | RES., CHIP, 0, 2512 | TEPRO, RN5326 | 150 |

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WIDE INPUT RANGE, HIGH EFFICIENCY STEP-DOWN DC-DC CONVERTER

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BILL OF MATERIALS

DC1516A2-B

QTY- 150

6/7/2011 12:14 PM

| <i>Item</i> | <i>Qty</i> | <i>Reference</i> | <i>Part Description</i> | <i>Manufacturer / Part #</i> | <i>Kit Qty</i> |
|-------------|------------|------------------|-----------------------------------|------------------------------|----------------|
| | | | | | |
| | | | | NUMBER OF BOARDS = | 150 |
| | | | | | |
| 1 | 1 | C2 | CAP., X7R, 1000pF, 16V, 10%, 0603 | AVX, 0603YC102KAT2A | 150 |
| 2 | 1 | L1 | IND, PWR, 0.68uH, L-7443330068 | WURTH, 7443330068 | 150 |
| 3 | 0 | R3,R7,R9,R17 | RES., 0603 | OPT | 0 |
| 4 | 1 | R6,R8 | RES., CHIP, 10, 1/16W, 5%, 0603 | VISHAY, CRCW060310R0JNEA | 150 |
| 5 | 1 | R16 | RES., CHIP, 0 , 1/16W, 0603 | VISHAY, CRCW06030000Z0EA | 150 |
| 6 | 1 | RS1 | RES., SENSE, 0.0025, 2512 | TEPRO, TMF12R0025F150L | 150 |