

# Linear Technology Corporation

LTC3416EFE

4A, MONOLITHIC, SYNCHRONOUS STEP-DOWN REGULATOR WITH TRACKING

ENG: RAYMOND ZHENG (23-30)

**BILL OF MATERIALS**

**DC667A-1**

6/20/2005

| Item | Qty | Reference               | Part Description                          | Manufacture / Part #                         |
|------|-----|-------------------------|---|--|
|      |     |                         |   |  |
|      |     |                         |   |  |
| 1    | 1   | CFF                     | Cap., NPO 22pF 25V 10%                    | AVX 04023A220KAT2A                           |
| 2    | 4   | CIN1,CIN2, COUT1,COUT2  | Cap., X5R 100uF 6.3V 20%,1210             | TDK C3225X5R0J107M                           |
| 3    | 0   | <b>CIN3,COUT3 (OPT)</b> | <b>Cap., X5R 100uF 6.3V 20%,7343-1812</b> | <b>TDK C3225X5R0J107M</b> or POSCAP 6TPE150M |
| 4    | 0   | <b>CIN4 (OPT)</b>       | <b>Cap., X5R,1210</b>                     | <b>OPT</b>                                   |
| 5    | 1   | CITH                    | Cap., X7R 820pF 25V 20%                   | AVX 04023C821MAT2A                           |
| 6    | 1   | C1                      | Cap., NPO 47pF 25V 10%                    | AVX 04023A470KAT2A                           |
| 7    | 0   | <b>C2 (OPT)</b>         | <b>Cap., NPO 39pF 25V 10%</b>             | <b>AVX 04023A390KAT2A</b>                    |
| 8    | 2   | JP1,JP2                 | Headers, 3 Pins 2mm Ctrs.                 | CommConn Con. Inc. 2802S-03G2                |
| 9    | 4   | JP3,JP4,JP5,JP6         | Jumper, 2pins 2mm Ctrs.                   | CommConn Con. Inc. 2802s-02g2                |
| 10   | 3   | SHUNTS FOR JP1,JP2,JP4  | Shunt, 2 Pins 2mm Ctrs.                   | CommConn Con. Inc. CCIJ2MM-138G              |
| 11   | 1   | L1                      | Inductor, 0.47uH                          | VISHAY IHLP-2525CZ-47                        |
| 12   | 2   | RFB1,R3                 | Res., Chip 255K 1/16W 1%                  | AAC CR05-2553FM                              |
| 13   | 1   | RFB2                    | Res., Chip 432K 1/16W 1%                  | AAC CR05-4323FM                              |
| 14   | 1   | RFB3                    | Res., Chip 634K 1/16W 1%                  | AAC CR05-6343FM                              |
| 15   | 0   | <b>RFB4,RFB5</b>        | <b>Jumper, Chip 0 1/16W 5%</b>            | <b>OPT</b>                                   |
| 16   | 1   | RITH                    | Res., Chip 7.5K 1/16W 1%                  | AAC CR05-7501FM                              |
| 17   | 1   | RPG                     | Res., Chip 100K 0.06W 5%                  | AAC CR05-104JM                               |
| 18   | 1   | RSS                     | Res., Chip 2.2M 1/16W 5%                  | AAC CR05-225JM                               |
| 19   | 1   | RT                      | Res., Chip 294K 0.06W 1%                  | AAC CR05-2943FM                              |
| 20   | 2   | R1,R2                   | Res., Chip 200K 1/16W 1%                  | AAC CR05-2003FM                              |
| 21   | 0   | <b>R4 (OPT)</b>         | <b>Res., Chip 1K 0.06W 5%</b>             | <b>AAC CR05-102JM</b>                        |
| 22   | 6   | TP1-TP6                 | Turret, Testpoint                         | Mill Max 2501-2                              |
| 23   | 1   | U1                      | I.C., Step-Down Reg., TSSOP20FE           | Linear Tech. Corp. LTC3416EFE                |
| 24   | 4   |                         | SCREW, #4-40, 1/4"                        | ANY  |
| 25   | 4   |                         | STANDOFF, #4-40 1/4"                      | MICRO PLASTICS 14HTSP101                     |
| 26   | 1   | STENCIL FOR TOP SIDE    |   |  |