

TEXAS INSTRUMENTS
3817REV5 BILL OF MATERIALS
REV 8

| DESIGNATOR | DESCRIPTION | MANUFACTURER | PART # |
|-----------------------|--------------------------------------|--------------------------------|------------------------------|
| C1 | 560 pF, 50V, Ceramic | Panasonic | ECU-S1H561JCA |
| C2 | 100uF, 25V, Elec | Panasonic | EEU-FC1V101S |
| C3, C5 | 1uF, 50V, Ceramic | Panasonic | ECU-S1H105MEB |
| C4 | 0.01uF, 50V, Ceramic | Panasonic | ECU-S1H103KBA |
| C6, C15 | 2.2uF, 50V, Ceramic | Panasonic | ECU-S1H225MEB |
| C7 | 150nF, 50V, Ceramic, +/- 10% | Panasonic | ECU-S1H154KBB |
| C8 | 270pF, 50V, Ceramic, +/- 10% | Panasonic | ECU-S1H271JCA |
| C9 | 1.2nF, 50V, Ceramic, +/- 10% | Panasonic | ECU-S1H122JCB |
| C10, C11 | 1uF, 50V, Stacked Metal Poly | Panasonic | ECQ-V1H105JL |
| C12 | 220uF, 450V Elec | Panasonic | ECO-S2WB221DA |
| C13 (Not used on EVM) | 0.47uF, 600V (Optional for customer) | Panasonic | ECQ-E6474KF |
| C14 | 1.5uF, 400V Poly | Panasonic | ECW-F4155JB |
| C16 | 33pF, 100V | Panasonic | ECU-S2A330JCA |
| D1 | 8A, 600V, 400A Surge | General Instruments | GI756CT |
| D2 | 6A, 600V, Ultra Fast Diode | International Rectifier | HFA08TB60 |
| D3 | 6A, 600V, Bridge | General Instruments | PB66 |
| D4, D5, D7, D8 | 1A, 40V, Schottky | | 1N5819 |
| D6 | 100mA, 20V Schottky | | BAT85 |
| D9 | Not Used | | |
| F1 | 6A, 250V 3AG Glass Fast Acting | | |
| | *Cartridge Type | | |
| FH1, FH2 | 3AG Fuse Clip | | |
| HS1 | Heat Sink for Q1 | Aavid | 513201 |
| HS2 | Heat Sink for D1 | Aavid | 574502 |
| L1 | 1mH, 5.5A, 20:1 TR | Cooper Electronic Technologies | CTX08-13679-02 |
| Q1 | IRFP450 | International Rectifier | IRFP450 |
| R1 | 12.1k, 1/4W | | |
| R3 | 20k | | |
| R4 | 249k | | |
| R5, R11 | 10k | | |
| R6 | 30.1k | | |
| R7 | 100k | | |
| R8 | 12.1k | | |
| R9, R10 | 4.02k | | |
| R12 | 2k | | |
| R13, R21 | 383k | | |
| R14 | 0.25 Ohm, 5W | | |
| R15, R18 | 24k, 1W Metal Oxide/Metal Film | Panasonic Panasonic | ERG 1S G 243 ERX 1S G 243 |
| R16 | 100 Ohm | | |
| R17 | 20 Ohm | | |
| R2, R19 | 499k | | |
| R20 | 274k | | |

| | | | |
|----------|-------------------------------|-------------------|----------|
| R22 | Zero Ohm jumper or 26AWG wire | | |
| U1 | UCC3817N | Texas Instruments | UCC3817N |
| X @ U1 | 16 pin DIP socket | | |
| PCB | UCC3817 BARE PC BOARD | | |
| X1 @ Q1 | Thermal Pad Silicone TO220 | | |
| X2 @ HS1 | Screw Pan Hd #6-32 X 3/8 | | |
| X3 @ HS1 | Nut #6X32 | | |

Note: Unless otherwise specified all resistors are 1/4W metal film with 1% tolerance and all capacitors have a +/- 20% tolerance.

7/17/00