

Bill of Materials

| VIN = 12V, VOUT = 5.0V, IOUT = 0.5A, fsw = 500kHz | | | | | | |
|---|-------|---------------------|------------------------|-------------------------------|---------------|------------------|
| Reference | Count | Part Number | Value | Description | Package | Manufacturer |
| U1 | 1 | RTQ6360GQW | RTQ6360GQW | Step-Down Converter | WDFN-10SL 3x3 | RICHTEK |
| C3, C4 | 2 | HMK316AC7225KLHTE | 2.2μF | Capacitor, Ceramic, 100V, X7R | 1206 | Taiyo Yuden |
| C5 | 1 | 0603B182K500CT | 1.8nF | Capacitor, Ceramic, 50V, X7R | 0603 | WALSIN |
| C7 | 1 | GRM32ER61C476KE15L | 47μF | Capacitor, Ceramic, 16V, X5R | 1210 | MURATA |
| C11 | 1 | C1608X7R1H104KT | 0.1μF | Capacitor, Ceramic, 50V, X7R | 0603 | TDK |
| CBOOT | 1 | C1608X7R1H104KT | 0.1μF | Capacitor, Ceramic, 50V, X7R | 0603 | TDK |
| CSS | 1 | C1608X7R1H103KT000N | 10nF | Capacitor, Ceramic, 50V, X7R | 0603 | TDK |
| D1 | 1 | VS-10BQ060-M3 | Schottky Diode, 60V/1A | Schottky Diode, 60V/1A | SMB | VISHAY |
| L1 | 1 | 744777147 | 47μH | Inductor, Isat = 1.1A, 170mΩ | | WURTH ELEKTRONIK |
| R1 | 1 | WR06X5232FTL | 52.3k | Resistor, Chip, 1/10W, 1% | 0603 | WALSIN |
| R2, R8 | 2 | WR06X1002FTL | 10k | Resistor, Chip, 1/10W, 1% | 0603 | WALSIN |
| R3 | 1 | RTT031693FTP | 169k | Resistor, Chip, 1/10W, 1% | 0603 | RALEC |
| R7, RBOOT | 2 | WR06X000 PTL | 0 | Resistor, Chip, 1/10W, 1% | 0603 | WALSIN |
| RT | 1 | RTT032323FTP | 232k | Resistor, Chip, 1/10W, 1% | 0603 | RALEC |

More Information

For more information, please find the related datasheet or application notes from Richtek website <http://www.richtek.com>.

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