

Bill of Materials

pre_v2.PrjPCB

08-Feb-10

| Quantity | Comment | Footprint | SupplierPartNumber | Designator | Description |
|----------|-----------|-------------|--------------------|--|----------------------------|
| 2 | 0u47 | CC3225-1210 | GRM31MR71H474KA01 | C1, C4 | Capacitor |
| 5 | 470n | CC2012-0805 | GRM21BR71H474KA88 | C2, C3, C5, C18, C19 | Capacitor |
| 4 | 15u | CC3528-B | 593D156X9020B2 | C6, C7, C9, C10 | Polarized capacitor |
| 2 | 100n | RAD-0.2 | MKC1850-410-06-5 | C8, C11 | Capacitor |
| 2 | 22u | CC3528-B | 593D226X9016B2 | C12, C13 | Polarized capacitor |
| 10 | 100n | CC2012-0805 | C0805C104K5RAC | C14, C15, C16, C17, C20, C21, C22, C23, C24, C25 | Capacitor |
| 2 | 3p0 | CC2012-0805 | C0805C309C5GAC | C26, C27 | Capacitor |
| 1 | CCD47-20 | TDIP-32 | CCD47-20-1-331 | EEV | Charge-coupled device |
| 2 | HDR2X10 | HDR2X10 | SSW-110-01-G-D | J1, J2 | Header 2x10 pin 0.100 inch |
| 1 | HDR2X5 | HDR2X5 | SSW-105-01-G-D | J3 | Header 2x5 pin 0.100 inch |
| 2 | SMB-M | C2012-0805 | 2508055007Y0 | L1, L2 | Ferrite bead |
| 1 | NTP5412NG | TO-220V | NTP5412NG | Q3 | MOSFET n-channel |
| 2 | SST211 | SOT-143 | SST211 | Q4, Q5 | DMOS FET switch |
| 5 | 10K | C3216-1206 | CRCW120610K0FKEA | R1, R2, R8, R9, R37 | Resistor |
| 4 | 274 | C3216-1206 | CRCW1206274RFKEA | R3, R34, R48, R49 | Resistor |
| 3 | 470 | C3216-1206 | CRCW1206470RFKEA | R4, R14, R15 | Resistor |
| 2 | 5K1 | C3216-1206 | CRCW12065K11FKEA | R5, R50 | Resistor |
| 4 | 1K | C3216-1206 | CRCW12061K00FKEA | R7, R16, R17, R18 | Resistor |
| 3 | 47K | SIP-6 | 4606-X-101-473 | R11, R12, R13 | Resistor network |
| 2 | 511 | C3216-1206 | CRCW1206511RFKEA | R19, R21 | Resistor |
| 6 | 150 | C3216-1206 | CRCW1206150RFKEA | R20, R22, R27, R28, R29, R30 | Resistor |
| 1 | 100 | C3216-1206 | CRCW1206100RFKEA | R23 | Resistor |
| 10 | 10R0 | C3216-1206 | CRCW120610R0FKEA | R24, R25, R26, R31, R32, R33, R38, R41, R42, R43 | Resistor |
| 2 | 0R1 | C3216-1206 | WSL1206R1000FEA | R35, R36 | Resistor |
| 2 | 332 | C3216-1206 | CRCW1206332RFKEA | R39, R40 | Resistor |
| 2 | 2K74 | C3216-1206 | CRCW12062K74FKEA | R44, R45 | Resistor |
| 2 | 1M | C3216-1206 | CRCW12061M00FKEA | R46, R47 | Resistor |
| 3 | SHORT | SHORT | None | S1, S2, S3 | Short-circuit |
| 2 | AD8065 | SO-G8 | AD8065ARZ | U1, U2 | FET op-amp |
| 1 | AD590 | RAD-0.1 | AD590KF | U3 | Temperature sensor |
| 1 | TEC | AXIAL-0.6 | 2CP-055-065-31-17 | U4 | Thermoelectric cooler |
| 1 | OP295 | SO-G8 | OP295GSZ | U5 | Dual op-amp |