

TIDA-010075 REV E1 Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|------------|----------|-------|---------------------|-----------------------------|--|------------------------------|
| !PCB | 1 | | TIDA-010075 | Any | Printed Circuit Board | |
| C2 | 1 | 10uF | GRM21BR6YA106KE43L | MuRata | CAP, CERM, 10 µF, 35 V,+/- 10%, X5R, 0805 | 0805 |
| C3, C5 | 2 | 0.1uF | 06035C104KAT2A | AVX | CAP, CERM, 0.1 µF, 50 V,+/- 10%, X7R, 0603 | 0603 |
| C6, C8 | 2 | 22uF | C2012X5R1V226M125AC | TDK | CAP, CERM, 22 µF, 35 V,+/- 20%, X5R, 0805 | 0805 |
| C11, C12 | 2 | 0.1uF | GRM155R71C104KA88D | MuRata | CAP, CERM, 0.1 µF, 16 V,+/- 10%, X7R, 0402 | 0402 |
| C31 | 1 | 56pF | GRM1555C1E560JA01D | MuRata | CAP, CERM, 56 pF, 25 V,+/- 5%, C0G/NP0, 0402 | 0402 |
| C32 | 1 | 22pF | 885012005009 | Würth Elektronik | CAP, CERM, 22 pF, 10 V,+/- 5%, C0G/NP0, 0402 | 0402 |
| D1, D2 | 2 | 40V | B340LA-13-F | Diodes Inc. | Diode, Schottky, 40 V, 3 A, SMA | SMA |
| D4 | 1 | 30V | DSR01S30SL | Toshiba | Diode, Schottky, 30 V, 0.2 A, SOD-323 | SOD-323 |
| J1, J2 | 2 | | GRP021VWVN-RC | Sullins Connector Solutions | Header, 50mil, 2x1, Gold, TH | 2x1 Header |
| J3 | 1 | | GRP051VWVN-RC | Sullins Connector Solutions | Header, 50mil, 5x1, Gold, TH | Header, 50mil, 5x1, TH |
| L1 | 1 | 22uH | THPC6045MF-220M | Tai-Tech | Inductor, Ferrite, 22 µH, 1.9 A, 0.096 ohm, SMD | 6x6mm |
| LBL1 | 1 | | THT-14-423-10 | Brady | Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll | PCB Label 0.650 x 0.200 inch |
| R3 | 1 | 0 | MCR03EZPJ000 | Rohm | RES, 0, 5%, 0.1 W, 0603 | 0603 |
| R5 | 1 | 0.1 | CRM1206-FX-R100ELF | Bourns | RES, 0.1, 1%, 0.5 W, 1206 | 1206 |
| R9, R10 | 2 | 2.67k | CRCW04022K67FKED | Vishay-Dale | RES, 2.67 k, 1%, 0.063 W, 0402 | 0402 |
| R11 | 1 | 16.5k | CRCW040216K5FKED | Vishay-Dale | RES, 16.5 k, 1%, 0.063 W, 0402 | 0402 |
| R12, R14 | 2 | 0 | CRCW04020000Z0ED | Vishay-Dale | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| R13 | 1 | 10.0k | CRCW040210K0FKED | Vishay-Dale | RES, 10.0 k, 1%, 0.063 W, 0402 | 0402 |
| R15 | 1 | 365 | CRCW0402365RFKED | Vishay-Dale | RES, 365, 1%, 0.063 W, 0402 | 0402 |
| R17, R18 | 2 | 1.00k | CRCW06031K00FKEA | Vishay-Dale | RES, 1.00 k, 1%, 0.1 W, 0603 | 0603 |
| U2 | 1 | | TVS3300DRVR | Texas Instruments | 33V Precision Surge Protection Clamp, DRV0006A (WSO-6) | DRV0006A |
| U3 | 1 | | TLV9001IDBVR | Texas Instruments | Low-Power, Rail-to-Rail In and Out, 1-MHz Operational Amplifier, DBV0005A (SOT-23-5) | DBV0005A |
| U4 | 1 | | TPS54202HDDCR | Texas Instruments | 4.5-V TO 28-V INPUT, 2-A OUTPUT, EMI FRIENDLY SYNCHRONOUS STEP-DOWN CONVERTOR, DDC0006A (SOT-23-T-6) | DDC0006A |

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