



TIDA-01606_HV_Card REV E4 Bill of Materials

| Item # | Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|--------|------------------------------|----------|----------|---------------------|-----------------------------|---|--|
| 1 | PCB1 | 1 | | TIDA-01606_HV_Card | Any | Printed Circuit Board | |
| 2 | C1 | 1 | 10uF | TAJA106M010RNJ | AVX | CAP, TA, 10 uF, 10 V, +/- 20%, 3 ohm, SMD | 3216-18 |
| 3 | C2, C4, C5, C6, C8, C9, C11 | 7 | 0.1uF | 885012206095 | Würth Elektronik | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 4 | C3, C7, C10, C13 | 4 | 10uF | C3225X7R1H106M250AC | TDK | CAP, CERM, 10 uF, 50 V, +/- 20%, X7R, 1210 | 1210 |
| 5 | C12, C16 | 2 | 4.7uF | GRM21BR61H475KE51L | MuRata | CAP, CERM, 4.7 uF, 50 V, +/- 10%, X5R, 0805 | 0805 |
| 6 | C14, C19, C20, C22 | 4 | 0.01uF | 885012206040 | Würth Elektronik | CAP, CERM, 0.01 uF, 16 V, +/- 10%, X7R, 0603 | 0603 |
| 7 | C15, C17, C18, C21 | 4 | 0.1uF | GRM188R71H104KA93D | MuRata | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 8 | D1, D2 | 2 | 20V | B0520LW-7-F | Diodes Inc. | Diode, Schottky, 20 V, 0.5 A, SOD-123 | SOD-123 |
| 9 | D3 | 1 | Green | 150060VS55040 | Würth Elektronik | LED, Green, SMD | 1.6x0.8mm |
| 10 | D4 | 1 | 5.6V | MMSZ5232B-7-F | Diodes Inc. | Diode, Zener, 5.6 V, 500 mW, SOD-123 | SOD-123 |
| 11 | D5 | 1 | 3.3V | CDSOD323-T03SC | Bourns | Diode, TVS, Bi, 3.3 V, 10.9 Vc, SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark | SOD323, 2-Leads, Body 1.9x1.45mm, No Polarity Mark |
| 12 | DC-1, DC+1 | 2 | | PBC02SGBN | Sullins Connector Solutions | Header, 2.54 mm, 2x1, Gold, R/A, TH | Header, 2.54mm, 2x1, R/A, TH |
| 13 | J1 | 1 | | 61300411021 | Würth Elektronik | Header, 2.54 mm, 4x1, Gold, R/A, TH | Header, 2.54 mm, 4x1, R/A, TH |
| 14 | L1 | 1 | 1000 ohm | 742792662 | Würth Elektronik | Ferrite Bead, 1000 ohm @ 100 MHz, 0.6 A, 0603 | 0603 |
| 15 | L2 | 1 | 26 ohm | 74279228260 | Würth Elektronik | Ferrite Bead, 26 ohm @ 100 MHz, 6.5 A, 0603 | 0603 |
| 16 | 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 |
| 17 | R1, R2, R4, R7, R9, R17 | 6 | 0 | ERJ-3GEY0R00V | Panasonic | RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| 18 | R3 | 1 | 47k | RC0603JR-0747KL | Yageo | RES, 47 k, 5%, 0.1 W, 0603 | 0603 |
| 19 | R5 | 1 | 2.20k | RC0603FR-072K2L | Yageo | RES, 2.20 k, 1%, 0.1 W, 0603 | 0603 |
| 20 | R6 | 1 | 0 | CRCW04020000Z0ED | Vishay-Dale | RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402 | 0402 |
| 21 | R10 | 1 | 330 | RC0603JR-07330RL | Yageo | RES, 330, 5%, 0.1 W, 0603 | 0603 |
| 22 | R11, R12, R13, R14, R15, R16 | 6 | 332k | MMU01020C3323FB300 | Vishay-Semiconductor | RES, 332 k, 1%, 0.2 W, AEC-Q200 Grade 0, 2.2x1.1mm | 2.2x1.1mm |
| 23 | R18 | 1 | 7.50k | ERJ-3EKF7501V | Panasonic | RES, 7.50 k, 1%, 0.1 W, 0603 | 0603 |
| 24 | R19, R27 | 2 | 39 | CRCW060339R0JNEA | Vishay-Dale | RES, 39, 5%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| 25 | R20, R21, R24, R25 | 4 | 4.70k | RC0603FR-074K7L | Yageo | RES, 4.70 k, 1%, 0.1 W, 0603 | 0603 |
| 26 | R22 | 1 | 3.60k | MMU01020C3601FB300 | Vishay-Semiconductor | RES, 3.60 k, 1%, 0.3 W, AEC-Q200 Grade 0, 2.2x1.1mm | 2.2x1.1mm |
| 27 | R23 | 1 | 100 | ERJ-3EKF1000V | Panasonic | RES, 100, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |
| 28 | R26 | 1 | 3.16k | RC0603FR-073K16L | Yageo | RES, 3.16 k, 1%, 0.1 W, 0603 | 0603 |
| 29 | R29 | 1 | 15.0k | RC0603FR-0715KL | Yageo | RES, 15.0 k, 1%, 0.1 W, 0603 | 0603 |
| 30 | T1 | 1 | 340uH | 750313638 | Würth Elektronik | Transformer, 340 uH, SMT | 8x9.14mm |
| 31 | U1 | 1 | | TPS22944DCKR | Texas Instruments | Low-Input Voltage 100 mA Current Limited Load Switch, 400 mOhms rDS(On), -40 to 85 degC, 5-pin SC70 (DCK), Green (RoHS & no Sb/Br) | DCK0005A |
| 32 | U2 | 1 | | SN6505BDBVR | Texas Instruments | Low-Noise 1 A, 420 kHz Transformer Driver, DBV0006A (SOT-23-6) | DBV0006A |
| 33 | U3 | 1 | | TLV70433DBVT | Texas Instruments | Single Output LDO, 150 mA, Fixed 3.3 V Output, 2.5 to 24 V Input, with Ultra-Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br) | DBV0005A |
| 34 | U4 | 1 | | AMC1311DWVR | Texas Instruments | Precision, 2-V Input, Reinforced Isolated Amplifier, DWV0008A (SOIC-8) | DWV0008A |
| 35 | U5 | 1 | | PTLV9061IDCKR | Texas Instruments | World's Smallest Amp 10MHz, RRIO, 1.8V-5.5V op-amp delivers high performance for challenging systems, DCK0005A (SOT-SC70-5) | DCK0005A |
| 36 | C23 | 0 | 0.1uF | GRM188R71H104KA93D | MuRata | CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0603 | 0603 |
| 37 | FID1, FID2, FID3 | 0 | | N/A | N/A | Fiducial mark. There is nothing to buy or mount. | N/A |
| 38 | R8 | 0 | 47k | RC0603JR-0747KL | Yageo | RES, 47 k, 5%, 0.1 W, 0603 | 0603 |
| 39 | R28 | 0 | 31.6k | CRCW060331K6FKEA | Vishay-Dale | RES, 31.6 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0603 | 0603 |