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TIDA-01370 REV E2 Bill of Materials

| Item # | Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|--------|------------------|----------|--------|----------------------|-----------------------------|--|---------------------------------------|
| 1 | IPCB1 | 1 | | TIDA-01370 | Any | Printed Circuit Board | |
| 2 | C1, C2, C3, C9 | 4 | 0.1uF | GRM155R61A104KA01D | MuRata | CAP, CERM, 0.1 μ F, 10 V, +/- 10%, X5R, 0402 | 0402 |
| 3 | C4 | 1 | 0.47uF | C0603C474K9RACTU | Kemet | CAP, CERM, 0.47 μ F, 6.3 V, +/- 10%, X7R, 0603 | 0603 |
| 4 | C5, C6 | 2 | 0.1uF | C0805C104K1RACTU | Kemet | CAP, CERM, 0.1 μ F, 100 V, +/- 10%, X7R, 0805 | 0805 |
| 5 | C7 | 1 | 0.47uF | 0805YC474KAT2A | AVX | CAP, CERM, 0.47 μ F, 16 V, +/- 10%, X7R, 0805 | 0805 |
| 6 | C8 | 1 | 0.1uF | GRM21BR71E104KA01L | MuRata | CAP, CERM, 0.1 μ F, 25 V, +/- 10%, X7R, 0805 | 0805 |
| 7 | C10 | 1 | 2.2uF | GRM21BR61E225KA12L | MuRata | CAP, CERM, 2.2 μ F, 25 V, +/- 10%, X5R, 0805 | 0805 |
| 8 | C11 | 1 | 1uF | C1005X5R0J105M050BB | TDK | CAP, CERM, 1 μ F, 6.3 V, +/- 20%, X5R, 0402 | 0402 |
| 9 | C12 | 1 | 22pF | C1005C0G1H220J050BA | TDK | CAP, CERM, 22 pF, 50 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| 10 | C13 | 1 | 22uF | GRM31CR61A226ME19L | MuRata | CAP, CERM, 22 μ F, 10 V, +/- 20%, X5R, 1206 | 1206 |
| 11 | C14 | 1 | 4.7uF | GRM188R60J475KE19D | MuRata | CAP, CERM, 4.7 μ F, 6.3 V, +/- 10%, X5R, 0603 | 0603 |
| 12 | C15 | 1 | 100uF | EEE-FK1J101P | Panasonic | CAP, AL, 100 μ F, 63 V, +/- 20%, 0.35 ohm, AEC-Q200 Grade 2, SMD | SMT Radial G |
| 13 | C16 | 1 | 0.1uF | C0603C104K8RACTU | Kemet | CAP, CERM, 0.1 μ F, 10 V, +/- 10%, X7R, 0603 | 0603 |
| 14 | D1, D2 | 2 | Green | LTST-C171GKT | Lite-On | LED, Green, SMD | 0805 LED |
| 15 | D3 | 1 | Red | LTST-C190CKT | Lite-On | LED, Red, SMD | Red LED, 1.6x0.8x0.8mm |
| 16 | FID1, FID2, FID3 | 3 | | N/A | N/A | Fiducial mark. There is nothing to buy or mount. | Fiducial |
| 17 | J1 | 1 | | PEC07DAAN | Sullins Connector Solutions | Header, 100mil, 7x2, Tin, TH | Header, 7x2, 100mil, Tin |
| 18 | J3 | 1 | | 90120-0122 | Molex | Header, 100mil, 2x1, Tin, TH | Header 2x1 |
| 19 | J4, J5, J6 | 3 | | ED555/2DS | On-Shore Technology | Terminal Block, 3.5mm Pitch, 2x1, TH | 7.0x8.2x6.5mm |
| 20 | J7 | 1 | | B12B-PADSS-F(LF)(SN) | JST Manufacturing | Header(Shrouded), 2mm, 6x2, Tin, TH | Header(Shrouded), 2mm, 6x2, TH |
| 21 | L1 | 1 | 10uH | 744025100 | Würth Elektronik | Inductor, Shielded Drum Core, Ferrite, 10 μ H, 1 A, 0.17 ohm, SMD | Inductor, 2.8x2.8x2.8mm |
| 22 | R2 | 1 | 3.32k | CRCW04023K32FKED | Vishay-Dale | RES, 3.32 k, 1%, 0.063 W, 0402 | 0402 |
| 23 | R3 | 1 | 0 | ERJ-2GE0R00X | Panasonic | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| 24 | R4 | 1 | 330 | CRCW0603330RJNEA | Vishay-Dale | RES, 330, 5%, 0.1 W, 0603 | 0603 |
| 25 | R5 | 1 | 10k | CRCW060310K0JNEA | Vishay-Dale | RES, 10 k, 5%, 0.1 W, 0603 | 0603 |
| 26 | R6 | 1 | 50k | 3352T-1-503LF | Bourns | Trimming Potentiometer, 50K, 0.5W, TH | 9.53x8.89mm |
| 27 | R7, R8 | 2 | 0.25 | CSRN2010FKR250 | Stackpole Electronics Inc | RES, 0.25, 1%, 1 W, 2010 | 2010 |
| 28 | R9 | 1 | 510 | CRCW0402510RJNEA | Vishay-Dale | RES, 510, 5%, 0.063 W, 0402 | 0402 |
| 29 | R10 | 1 | 4.99k | CRCW04024K99FKED | Vishay-Dale | RES, 4.99 k, 1%, 0.063 W, 0402 | 0402 |
| 30 | R11 | 1 | 80.6k | CRCW040280K6FKED | Vishay-Dale | RES, 80.6 k, 1%, 0.063 W, 0402 | 0402 |
| 31 | R12 | 1 | 191k | CRCW0402191KFKED | Vishay-Dale | RES, 191 k, 1%, 0.063 W, 0402 | 0402 |
| 32 | R13 | 1 | 100k | CRCW0402100KFKED | Vishay-Dale | RES, 100 k, 1%, 0.063 W, 0402 | 0402 |
| 33 | R14 | 1 | 15.4k | CRCW040215K4FKED | Vishay-Dale | RES, 15.4 k, 1%, 0.063 W, 0402 | 0402 |
| 34 | R15 | 1 | 110k | CRCW0402110KFKED | Vishay-Dale | RES, 110 k, 1%, 0.063 W, 0402 | 0402 |
| 35 | S1, S2, S3 | 3 | | 4-1437565-1 | TE Connectivity | Switch, Tactile, SPST-NO, 0.05A, 12V, SMT | SW, SPST 6x6 mm |
| 36 | TP1 | 1 | | D3082-05 | Harwin | 1mm Uninsulated Shorting Plug, 10.16mm spacing, TH | Shorting Plug, 10.16mm spacing, TH |
| 37 | U1 | 1 | | MSP430F2617TPM | Texas Instruments | 16 MHz Mixed Signal Microcontroller with 92 KB Flash, 8192 B SRAM and 48 GPIOs, -40 to 105 degC, 64-pin QFP (PM), Green (RoHS & no Sb/Br) | PM0064A |
| 38 | U2 | 1 | | DRV8880PWPR | Texas Instruments | 2-A 45-V 1/16- μ step Stepper Motor Driver With AutoTune, PWP0028C (TSSOP-28) | PWP0028C |
| 39 | U3 | 1 | | TPS62175DQCR | Texas Instruments | 28V, 0.5A Step-Down Converter with Sleep Mode, DQC0010A (WSON-10) | DQC0010A |
| 40 | U4 | 1 | | TPS73501DRBR | Texas Instruments | Single Output High PSRR LDO, 500 mA, Adjustable 1.25 to 6 V Output, 2.7 to 6.5 V Input, with Low IQ, 8-pin SON (DRB), -40 to 125 degC, Green (RoHS & no Sb/Br) | DRB0008A |
| 41 | U5 | 1 | | SN74LV4T125PWR | Texas Instruments | Single Power Supply Quadruple Buffer Translator GATE With 3-State Output CMOS Logic Level Shifter, PW0014A (TSSOP-14) | PW0014A |
| 42 | J2 | 0 | | TSW-118-07-G-S | Samtec | Header, 100mil, 18x1, Gold, TH | 18x1 Header |
| 43 | J8 | 0 | | TSW-103-07-G-S | Samtec | Header, 100mil, 3x1, Gold, TH | 3x1 Header |
| 44 | R1 | 0 | 0 | ERJ-2GE0R00X | Panasonic | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| 45 | R16, R17, R18 | 0 | 10k | CRCW060310K0JNEA | Vishay-Dale | RES, 10 k, 5%, 0.1 W, 0603 | 0603 |

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