

TIDA-01355 REV E1 Bill of Materials

| Designator | Quantity | Value | PartNumber | Manufacturer | Description | PackageReference |
|---|----------|----------|---------------------|---------------------------|---|---------------------------------------|
| !PCB | 1 | | XX#### | Any | Printed Circuit Board | |
| @H1, @H2, @H3, @H4 | 4 | | 1891 | Keystone | 3/16 Hex Female Standoff | 3/16 Hex Female Standoff |
| @H5, @H6 | 2 | | RM3X4MM 2701 | APM HEXSEAL | Machine Screw Pan PHILLIPS M3 | |
| C1 | 1 | 10pF | GRM1555C1H100JA01D | MuRata | CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| C2, C3, C5 | 3 | 110pF | GRM1555C1E111JA01D | MuRata | CAP, CERM, 110 pF, 25 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| C4 | 1 | 51pF | GRM1555C1E510JA01D | MuRata | CAP, CERM, 51 pF, 25 V, +/- 5%, C0G/NP0, 0402 | 0402 |
| C6, C7, C8 | 3 | 2.2uF | C1005X5R1C225K050BC | TDK | CAP, CERM, 2.2 uF, 16 V, +/- 10%, X5R, 0402 | 0402 |
| C9, C10, C11, C12, C13, C19, C23 | 7 | 0.1uF | 885012205037 | Würth Elektronik | CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402 | 0402 |
| C14, C15, C16, C20, C21, C22, C24, C25 | 8 | 10uF | CL05A106MP5NUNC | Samsung Electro-Mechanics | CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0402 | 0402 |
| H1, H2, H3, H4 | 4 | | PMSSS 440 0025 PH | B&F Fastener Supply | MACHINE SCREW PAN PHILLIPS 4-40 | Machine Screw, 4-40, 1/4" |
| H5, H6 | 2 | | 9774050360R | Würth Elektronik | ROUND STANDOFF M3 STEEL 5MM | ROUND STANDOFF M3 STEEL 5MM |
| J1 | 1 | | QTH-030-01-L-D-A | Samtec | Header(Shrouded), 19.7mil, 30x2, Gold, SMT | Header (Shrouded), 19.7mil, 30x2, SMT |
| J2 | 1 | | SMA-J-P-H-ST-EM1 | Samtec | SMA Jack, 50 Ohm, Gold, R/A, SMT | SMA Jack, R/A, SMT |
| J4 | 1 | | TSM-102-01-L-SV | Samtec | Header, 100mil, 2x1, Gold with Tin Tail, SMT | 2x1 Header |
| L1 | 1 | 1000 ohm | BLM15AX102SN1D | MuRata | Ferrite Bead, 1000 ohm @ 100 MHz, 0.35 A, 0402 | 0402 |
| R2, R3, R5, R8 | 4 | 0 | CRCW04020000Z0ED | Vishay-Dale | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| R4 | 1 | 150 | CRCW0402150RJNED | Vishay-Dale | RES, 150, 5%, 0.063 W, 0402 | 0402 |
| R7 | 1 | 20.0 | CRCW040220R0FKED | Vishay-Dale | RES, 20.0, 1%, 0.063 W, 0402 | 0402 |
| R10, R11 | 2 | 10k | ERJ-2GEJ103X | Panasonic | RES, 10 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402 | 0402 |
| R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R25, R26 | 15 | 49.9 | ERJ-1GEF49R9C | Panasonic | RES, 49.9, 1%, 0.05 W, 0201 | 0201 |
| R27 | 1 | 33.0 | ERJ-2RKF33R0X | Panasonic | RES, 33.0, 1%, 0.1 W, 0402 | 0402 |
| U1, U4, U5 | 3 | | ADS7056IRUGR | Texas Instruments | Ultra-Low Power, Ultra-Small Size, 14-Bit, 2.5-MSPS, SAR ADC, RUG0008A (X2QFN-8) | RUG0008A |
| U2 | 1 | | SN74AUCH244RGYR | Texas Instruments | Octal Buffer and Driver With 3-State Outputs, RGY0020A | RGY0020A |
| U3 | 1 | | OPA836IDBVR | Texas Instruments | Very Low Power, Rail to Rail Out, Negative Rail In, VFB Operational Amplifier, 2.5 to 5.5 V, -40 to 125 degC, 6-pin SOT23 (DBV6), Green (RoHS & no Sb/Br) | DBV0006A |
| U7 | 1 | | BR24G32FVT-3AGE2 | Rohm | I2C BUS EEPROM (2-Wire), TSSOP-B8 | TSSOP-8 |
| U8 | 1 | | LP5907SNX-4.5/NOPB | Texas Instruments | Ultra Low-Noise, 250-mA Linear Regulator for RF and Analog Circuits, DQN0004A | DQN0004A |
| U9 | 1 | | REF2033AIDDCR | Texas Instruments | Low-Drift, Low-Power, Dual-Output, VREF and VREF / 2 Voltage References, DDC0005A | DDC0005A |
| C17 | 0 | 22uF | LDK105EBJ226MV-F | Taiyo Yuden | CAP, CERM, 22 uF, 10 V, +/- 20%, X5R, 0402 | 0402 |
| C18 | 0 | 1uF | GCM155C71A105KE38D | MuRata | CAP, CERM, 1 uF, 10 V, +/- 10%, X7S, AEC-Q200 Grade 1, 0402 | 0402 |
| C26 | 0 | 0.1uF | 885012205037 | Würth Elektronik | CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402 | 0402 |
| J3 | 0 | | SMA-J-P-H-ST-EM1 | Samtec | SMA Jack, 50 Ohm, Gold, R/A, SMT | SMA Jack, R/A, SMT |

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|------------|----------|-------|--------------------|--------------------|--|-----------------------------|
| LBL1 | 0 | | THT-14-423-10 | Brady | Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll | PCB Label 0.650"H x 0.200"W |
| R1 | 0 | 3.32k | PCF0402-12-3K32BT1 | TT Electronics/IRC | RES, 3.32 k, 0.1%, 0.063 W, 0402 | 0402 |
| R6 | 0 | 10.0 | CRCW040210R0FKED | Vishay-Dale | RES, 10.0, 1%, 0.063 W, 0402 | 0402 |
| R9 | 0 | 0 | CRCW04020000Z0ED | Vishay-Dale | RES, 0, 5%, 0.063 W, 0402 | 0402 |
| U6 | 0 | | REF6030IDGKR | Texas Instruments | High-Precision Voltage Reference with Integrated High-Bandwidth Buffer, DGK0008A | DGK0008A |

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