

Bill of Materials

TI DESIGNS

TIDA-00230

| Item | Qty | Reference | Value | Part Description | Manufacturer | Manufacturer Part Number | Alternate Part | PCB Footprint | Note |
|------|-----|------------------------------------|------------------|---|-----------------------------|--------------------------|----------------|---------------|------|
| 1 | 1 | IPC B1 | | Printed Circuit Board | Any | TIDA00230 | | | |
| 2 | 1 | C1 | 0.47uF | CAP, CERM, 0.47uF, 25V, +/-10%, X7R, 0603 | MuRata | GRM188R71E474KA12D | | 0603 | |
| 3 | 3 | C2, C5, C8 | 0.1uF | CAP, CERM, 0.1uF, 16V, +/-10%, X7R, 0402 | MuRata | GRM155R71C104KA88D | | 0402 | |
| 4 | 3 | C3, C4, C9 | 1uF | CAP, CERM, 1uF, 16V, +/-10%, X7R, 0603 | MuRata | GRM188R71C105KA12D | | 0603 | |
| 5 | 1 | C6 | 100uF | CAP, CERM, 100uF, 10V, +/-20%, X5R, 1206_190 | TDK | C3216X5R1A107M160AC | | 1206 | |
| 6 | 1 | C10 | 39pF | CAP, CERM, 39pF, 50V, +/-5%, C0G/NP0, 0402 | MuRata | GRM1555C1H390JA01D | | 0402 | |
| 7 | 3 | D1, D2, D5 | | Diode, Schottky, 35V, 0.1A, SOD-523F | Comchip Technology | CDBU0130L | | sod523 | |
| 8 | 2 | D3, D4 | orange | LED, Orange, SMD | Rohm | SML-311D TT86 | | 0603 | |
| 9 | 6 | FID1, FID2, FID3, FID4, FID5, FID6 | | Fiducial mark. There is nothing to buy or mount. | N/A | N/A | | | |
| 10 | 2 | J1, J3 | | Header, 50mil, 4x1, R/A, TH | Sullins Connector Solutions | GRPB041VWCN-RC | | | |
| 11 | 5 | R1, R4, R7, R8, R10 | 0R | RES, 0 ohm, 5%, 0.063W, 0402 | Vishay-Dale | CRCW04020000Z0ED | | 0402 | |
| 12 | 2 | R2, R3 | 4.75k | RES, 4.75k ohm, 1%, 0.063W, 0402 | Vishay-Dale | CRCW04024K75FKED | | 0402 | |
| 13 | 2 | R5, R6 | 1.00k | RES, 1.00k ohm, 1%, 0.063W, 0402 | Vishay-Dale | CRCW04021K00FKED | | 0402 | |
| 14 | 1 | R11 | 47k | RES, 47k ohm, 5%, 0.063W, 0402 | Vishay-Dale | CRCW040247K0JNED | | 0402 | |
| 15 | 1 | U1 | MSP430FR5969IRGZ | Mixed Signal Microcontroller, RGZ0048B | Texas Instruments | MSP430FR5969IRGZ | | RGZ | |
| 16 | 1 | U2 | RF430CL330HCPW | DYNAMIC NFC INTERFACE TRANSPONDER, PW0014A | Texas Instruments | RF430CL330HCPW | | CPW | |
| 17 | 2 | U5, U6 | TPD1E10B06DPYR | ESD in 0402 Package with 10 pF Capacitance and 6 V Breakdown, 1 Channel, -40 to +125 degC, 2-pin X2SON (DPY), Green (RoHS & no Sb/Br) | Texas Instruments | TPD1E10B06DPYR | | DPYR | |

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