



| Item # | mn Name Error:Manufa #Column Name Error:Manufacturer No | Quantity | #Column Name Error:Note | Designator | Description | Footprint | Comment | LibRef |
|--------|---|----------|-------------------------|--|--|--|-----------------------------------|-------------------------|
| 1 | | 1 | | Batt1 | Lithium Battery Non-Rechargeable (Primary) 3V Coin, 12.5mm | Battery Clip - CR1225 | CR1225 | CR2032 Battery Holder |
| 2 | | 2 | | C1, C9 | CAP CER 0.1UF 50V X7R 0603 | 0603 | 0.1 uF | Cap |
| 3 | | 1 | | C2 | Tantalum Capacitors - Solid SMD 35volts 47uF 10% ESR=300mOhms | 2917 | 47 uF | Tantalum Cap_1 |
| 4 | | 3 | | C4, C6, C7 | 10µF ±20% 50V Ceramic Capacitor X5R 1206 (3216 Metric) | 1206 | 10uF | Cap |
| 5 | | 1 | | C8 | CAP CER 0.1UF 50V 10% X7R 0603 | 0603 | 0.1uF | Cap |
| 6 | | 1 | | C10 | 1μF ±20% 50V Ceramic Capacitor X5R 0603 (1608 Metric) | 0603 | 1uf | Cap |
| 7 | | 1 | | D1 | LED RED DIFFUSED 0805 SMD | 0805 Polarized | Green | LED - SMD |
| 8 | | 1 | | D2 | LED RED DIFFUSED 0805 SMD | 0805 Polarized | Red | LED - SMD |
| 9 | | 1 | | D3 | Diode Schottky 40V 2A Surface Mount DO-214AC (SMA) | SMA with A and K | CDBA240LL-HF | Schottky Diode |
| 10 | | 3 | | I2C, P1, UART1 | Header, 4-Pin | HDR1X4 | Header 4 | Header 4 |
| 11 | | 1 | | J1 | Receptacle Assembly, 15 Position, Right Angle | DSUB1.385-2H15 | Vehicle Interface Cable Connector | D Connector 15 |
| 12 | | 10 | | R1, R4, R7, R8, R9, R10, R11, R12, R13, R15 | 6.49k Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film | 0603 | 6.49k | Chip Resistor |
| 13 | | 2 | | R2, R3 | 120 Ohm ±1% 0.1W, 1/10W Chip Resistor 0603 (1608 Metric) Automotive AEC-Q200 Thick Film | 0603 | 120 | Chip Resistor |
| 14 | | 3 | | R5, R6, R14 | RES SMD 47 OHM 1% 1/10W 0603 | 0603 | 47 | Chip Resistor |
| 15 | | 1 | | SPI1 | Header, 6-Pin | HDR1X6 | Header 6 | Header 6 |
| 16 | | 1 | | Teensy 1 | 32 Bit Arduino-Compatible Microcontroller | Teensy 3.6 Through Hole - No Labels | Teensy 3.6 Through Hole | Teensy 3.6 Through Hole |
| 17 | | 1 | | U1 | Low Dropout Linear Fixed Voltage Regulator, 5 Vout, -40 to 150 degC, PG-TO252-3, Reel, Green | INF-PG-TO252-3-11_N | TLF80511TF V50 | TLF80511TF V50 |
| 18 | | 1 | | U2 | Single Wire CAN Transceiver, 5 to 27 V, 8-Pin SOIC, Pb-Free, Tube | ONSC-SOIC-8-751-07_V | NCV7356D1G | NCV7356D1G |
| 19 | | 1 | | U3 | IC SCHMIT-TRIGG INV GATE SOT353 | SOT-353 | 74AHCT1G14 | 74AHCT1G14 Inverter |
| 20 | | 1 | | U4 | IC RS485 TXRX 3/5V 8-SOIC | SOIC-SN8_N | SN75HVD08DR | SN75HVD12D (3.3v RS4 |
| 21 | | 3 | | U5, U8, U9 | Microchip CAN FD Transceiver with Silent Mode | TDFN | MCP2558 | MCP2558FD |
| 22 | | 1 | | U6 | CAN Controller CAN 2.0 SPI Interface 20-QFN (4x4) | QFN-ML20_M | MCP2515-E/ML | MCP2515-E/ML |
| 23 | | 1 | | U7 | LIN J2602 Transceiver, 8-Pin SOIC, Extended Temperature, Tape and Reel | SOIC-SN8_N | MCP2003A-E/SN | MCP2003AT-E/SN |
| 24 | | 1 | | U10 | Smart Low-Side Power Switch HITFET, 60 V VDS, 12 A ID, -40 to 150 degC, PG-TO263-3-2, Reel, | INF-PG-TO263-3-2_N | BTS141TC | BTS141TC |
| | | 1 | | | Green | | | |