



## Bill of Materials for the NCN5150SOICGEVB Evaluation Board

| Designator                | Quantity | Description                           | Value      | Tolerance | Footprint    | Manufacturer     | Manufacturer Part Number | Substitution Allowed | Lead Free |
|---------------------------|----------|---------------------------------------|------------|-----------|--------------|------------------|--------------------------|----------------------|-----------|
| U1                        | 1        | Wired M-BUS Slave Transceiver         | -          | -         | SO16         | ON Semiconductor | NCN5150DR2G              | No                   | Yes       |
| C1                        | 1        | Capacitor                             | 1uF        | 10%       | 0603         | Multicomp        | MCCA000515               | Yes                  | Yes       |
| C2                        | 0        | DNP                                   | -          | -         | 0603         | -                | -                        | -                    | -         |
| C3                        | 1        | Capacitor                             | 100nF      | 10%       | 0603         | Multicomp        | MCCA000256               | Yes                  | Yes       |
| C4                        | 1        | Capacitor                             | 220uF, 10V | 10%       | Case E       | AVX              | TAJD227K010RNJ           | Yes                  | Yes       |
| D1                        | 1        | Diode                                 | -          | -         | SMA          | ON Semiconductor | 1SMA40CAT3G              | No                   | Yes       |
| J1, J5                    | 1        | HEADER, SIDE ENTRY, 2WAY              | -          | -         | -            | IMO Precision    | 21.95MH/2                | Yes                  | Yes       |
| J2, J3, J4                | 1        | BOARD-BOARD CONN, SOCKET, 10WAY, 2ROW | -          | -         | 4.8mm x 13mm | Multicomp        | 2214S-10SG-85            | Yes                  | Yes       |
| Q1, Q2                    | 0        | DNP                                   | -          | -         | -            | -                | -                        | -                    | -         |
| R1, R4, R10, R15          | 4        | Resistor                              | 0 ohm      | 1%        | 0603         | Multicomp        | MC0603WG00000T5E-TR      | Yes                  | Yes       |
| R3, R5, R9, R12, R13      | 0        | DNP                                   | -          | -         | 0603         | -                | -                        | -                    | -         |
| R2, R6, R8, R11, R14, R17 | 1        | Resistor                              | 100 ohm    | 1%        | 0603         | Multicomp        | MC0.063W06031%100RFR     | Yes                  | Yes       |
| R7, R16                   | 1        | Resistor                              | 220 ohm    | 1%        | 0603         | Multicomp        | MC0.063W06031%220RFR     | Yes                  | Yes       |
| R18                       | 1        | Resistor                              | 30K ohm    | 1%        | 0603         | Multicomp        | MC0.063W06031%30KFR      | Yes                  | Yes       |
| TP1                       | 1        | GND                                   | -          | -         | -            | -                | -                        | -                    | -         |
| TP2                       | 1        | 3V3                                   | -          | -         | -            | -                | -                        | -                    | -         |