

# PCB BOM



Source Data From: LPCB278\_\_RLOOP\_\_HE\_THERM.PrjPCB  
 Project: LPCB278\_\_RLOOP\_\_HE\_THERM.PrjPCB  
 Variant: None

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| #  | Designator | Layer | LDL_NUMBER | Description   |
|----|------------|-------|------------|---|
| 1  | C1         | Top   | LCA016     | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016]            |
| 2  | C2         | Top   | LCA016     | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016]            |
| 3  | C3         | Top   | LCA070     | Capacitor, Ceramic Chip, 1uF, 10V, SMD 0603 [LCA070]                          |
| 4  | C4         | Top   | LCA070     | Capacitor, Ceramic Chip, 1uF, 10V, SMD 0603 [LCA070]                          |
| 5  | C6         | Top   | LCA144     | Capacitor, Ceramic Chip, 10uF, 50V, X5R, 10%, SMD 1206 [LCA144]               |
| 6  | C7         | Top   | LCA098     | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098]                          |
| 7  | C8         | Top   | LCA016     | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016]            |
| 8  | C9         | Top   | LCA144     | Capacitor, Ceramic Chip, 10uF, 50V, X5R, 10%, SMD 1206 [LCA144]               |
| 9  | C10        | Top   | LCA098     | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098]                          |
| 10 | C11        | Top   | LCA016     | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016]            |
| 11 | C12        | Top   | LCA098     | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098]                          |
| 12 | C13        | Top   | LCA016     | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016]            |
| 13 | C14        | Top   | LCA016     | Capacitor, Ceramic Chip, 100nF (0.1uF), 50V, 5%, SMD 0603 [LCA016]            |
| 14 | C15        | Top   | LCA144     | Capacitor, Ceramic Chip, 10uF, 50V, X5R, 10%, SMD 1206 [LCA144]               |
| 15 | C16        | Top   | LCA098     | Capacitor, Ceramic Chip, 1uF, 50V, SMD 0805 [LCA098]                          |
| 16 | CE1        | Top   | LCA071     | Capacitor, Aluminum Electrolytic, 330uF, 35V, 20%, SMD (10mm x 10mm) [LCA071] |
| 17 | CN1        | Top   | LCN370     | Connector, Pluggable Terminal Block, 5.08mm, 3 Way, PTH                       |
| 18 | CN2        | Top   | LCN370     | Connector, Pluggable Terminal Block, 5.08mm, 3 Way, PTH                       |
| 19 | CN3        | Top   | LCN369     | Connector, Pluggable Terminal Block, 5.08mm, 2 Way, PTH                       |
| 20 | CN4        | Top   | LCN370     | Connector, Pluggable Terminal Block, 5.08mm, 3 Way, PTH                       |
| 21 | CN5        | Top   | LCN370     | Connector, Pluggable Terminal Block, 5.08mm, 3 Way, PTH                       |
| 22 | CN6        | Top   | LCN370     | Connector, Pluggable Terminal Block, 5.08mm, 3 Way, PTH                       |
| 23 | CN7        | Top   | LCN370     | Connector, Pluggable Terminal Block, 5.08mm, 3 Way, PTH                       |
| 24 | D1         | Top   | LIC621     | Diode, ESD Protecion, 10pF, 9V Breakdown, SMD 0402 [LIC621]                   |
| 25 | D2         | Top   | LIC621     | Diode, ESD Protecion, 10pF, 9V Breakdown, SMD 0402 [LIC621]                   |
| 26 | D3         | Top   | LIC189     | Diode, General Purpose Rectifier, 3A, 200V, SMD DO-214AB [LIC189]             |
| 27 | D4         | Top   | LIC006     | Diode, Small Signal, 0.2A, 85V, SMD SOT-23 [LIC006]                           |

|                 |      |     |              |   |
|-----------------|------|-----|--------------|---|
| 28              | D5   | Top | LIC006       | Diode, Small Signal, 0.2A, 85V, SMD SOT-23 [LIC006]       |
| 29              | D6   | Top | LIC006       | Diode, Small Signal, 0.2A, 85V, SMD SOT-23 [LIC006]       |
| 30              | D7   | Top | LIC006       | Diode, Small Signal, 0.2A, 85V, SMD SOT-23 [LIC006]       |
| 31              | IC1  | Top | LIC573       | IC, I2C to 1 Wire Bridge, SMD SOIC8                       |
| 32              | IC2  | Top | LIC573       | IC, I2C to 1 Wire Bridge, SMD SOIC8                       |
| 33              | IC3  | Top | LIC016       | LED, SMD, 0805 Green [LIC016]                             |
| 34              | IC4  | Top | LIC233       | IC, Voltage Regulator, 400mA, 3.3V LDO, SMD DPAK [LIC233] |
| 35              | IC5  | Top | LIC016       | LED, SMD, 0805 Green [LIC016]                             |
| 36              | IC6  | Top | LIC016       | LED, SMD, 0805 Green [LIC016]                             |
| 37              | IC7  | Top | LIC016       | LED, SMD, 0805 Green [LIC016]                             |
| 38              | IC8  | Top | LIC292       | IC, Relay Driver, 28V Industrial, SMD SOT23 [LIC292]      |
| 39              | IC9  | Top | LIC292       | IC, Relay Driver, 28V Industrial, SMD SOT23 [LIC292]      |
| 40              | IC10 | Top | LIC016       | LED, SMD, 0805 Green [LIC016]                             |
| 41              | IC11 | Top | LIC016       | LED, SMD, 0805 Green [LIC016]                             |
| 42              | IC12 | Top | LIC292       | IC, Relay Driver, 28V Industrial, SMD SOT23 [LIC292]      |
| 43              | IC13 | Top | LIC292       | IC, Relay Driver, 28V Industrial, SMD SOT23 [LIC292]      |
| 44              | PW1  | Top | LPW033       |   |
| 45              | Q1   | Top | LIC215       | FET, P Channel, Logic Level, SMD SOT23 [LIC215]           |
| 46              | Q2   | Top | LIC215       | FET, P Channel, Logic Level, SMD SOT23 [LIC215]           |
| 47              | R1   | Top | LRE058       | Resistor, Ceramic Chip, 4K7, 0.1W, 1%, SMD 0603 [LRE058]  |
| 48              | R2   | Top | LRE058       | Resistor, Ceramic Chip, 4K7, 0.1W, 1%, SMD 0603 [LRE058]  |
| 49              | R3   | Top | LRE026       | Resistor, Ceramic Chip, 0R, 0.1W, SMD 0603 [LRE026]       |
| 50              | R4   | Top | LRE026       | Resistor, Ceramic Chip, 0R, 0.1W, SMD 0603 [LRE026]       |
| 51              | R5   | Top | LRE027       | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 52              | R6   | Top | LRE027       | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 53              | R7   | Top | LRE027       | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 54              | R8   | Top | LRE027       | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 55              | R9   | Top | LRE027       | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 56              | R10  | Top | LRE027       | Resistor, Ceramic Chip, 2.2K, 0.1W, 1%, SMD 0603 [LRE027] |
| 57              | R11  | Top | LRE026       | Resistor, Ceramic Chip, 0R, 0.1W, SMD 0603 [LRE026]       |
| 58              | RLY1 | Top | LSW020       | Relay, DPDT, Non Latching, 24VDC Coil, 1A Rating, PTH     |
| 59              | RLY2 | Top | LSW020       | Relay, DPDT, Non Latching, 24VDC Coil, 1A Rating, PTH     |
| 60              | RLY3 | Top | LSW020       | Relay, DPDT, Non Latching, 24VDC Coil, 1A Rating, PTH     |
| 61              | RLY4 | Top | LSW020       | Relay, DPDT, Non Latching, 24VDC Coil, 1A Rating, PTH     |
| <b>Approved</b> |      |     | <b>Notes</b> |   |
|                 |      |     |              |   |