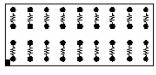
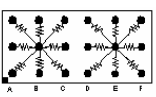
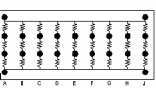
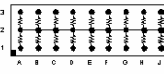
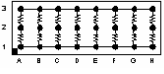
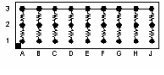
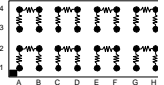


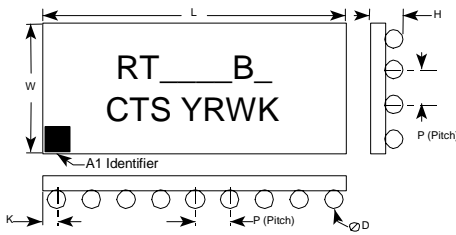
RoHS Compliant part numbers begin with "RT2" (example RT2200B7)

Contact CTS if you have a new design request or application.

| Configuration  | Cols | R1Ω      | R2Ω      | Pitch 1.00mm | Pitch 1.27mm |
|--|------|----------|----------|--------------|--------------|
| C<br>Isolated Configuration<br><br>   | 8    | 10       |          | RT1200B7     |              |
|  |      | 15       |          | RT116B7      |              |
|  |      | 22       |          | RT1232B7     |              |
|  |      | 25       |          | RT1233B7     |              |
|  |      | 33       |          | RT1202B7     |              |
|  |      | 38       |          | RT101B7      |              |
|  |      | 50       |          | RT1235B7     |              |
|  |      | 56       |          |              | RT119B6      |
|  | 100  |          | RT1710B7 | RT1710B6     |              |
|  | 9    | 18       |          | RT1406B7     |              |
|  |      | 22       |          | RT1405B7     | RT1405B6     |
|  |      | 25       |          | RT1404B7     | RT1404B6     |
|  |      | 27       |          | RT1409B7     |              |
|  |      | 33       |          | RT1463B7     | RT1463B6     |
|  |      | 47       |          | RT1465B7     | RT1465B6     |
|  |      | 50       |          | RT1460B7     | RT1460B6     |
|  |      | 10,000   |          | RT128B7      |              |
|  | 16   | 10       |          | RT1201B7     |              |
| 22   |      |          | RT104B7  |              |              |
| 33   |      |          | RT1203B7 |              |              |
| 50   |      |          | RT1205B7 | RT1205B6     |              |
| 100  |      | RT1236B7 |          |              |              |
| D<br>Star Configuration<br><br>     | 3    | 22       |          | RT1100B7     |              |
|  |      | 25       |          |              | RT1450B6     |
|  |      | 56       |          |              | RT1453B6     |
|  |      | 150      |          |              | RT1410B6     |
|  | 6    | 22       |          | RT1101B7     | RT1101B6     |
| 25   |      |          |          | RT1451B6     |              |
| 56   |      |          |          | RT1454B6     |              |
| 12   | 150  |          |          | RT1411B6     |              |
|  | 22   |          | RT1102B7 | RT1102B6     |              |
|  | 25   |          |          | RT1452B6     |              |
|  | 28   |          |          | RT1421B6     |              |
|  | 33   |          |          | RT1425B6     |              |
| E<br>Thevenin Configuration<br><br> | 9    | 39       |          | RT1423B6     |              |
|  |      | 56       |          |              | RT1427B6     |
|  |      | 150      |          | RT1412B7     | RT1412B6     |
|  |      | 10,000   |          | RT130B7      |              |
|  |      | 22,000   |          | RT131B7      |              |
|  |      | 330      | 150      |              | RT1320B6     |
| 475  | 121  |          | RT1300B6 |              |              |

| Configuration  | Cols  | R1Ω      | R2Ω      | Pitch 1.00mm | Pitch 1.27mm |          |
|--|-------|----------|----------|--------------|--------------|----------|
| F<br>Center Bus Configuration<br><br>  | 4     | 1,000    |          | RT1435B7     | RT1435B6     |          |
|  |       | 4,700    |          | RT1415B7     | RT1415B6     |          |
|  |       | 8,200    |          | RT1416B7     | RT1416B6     |          |
|  | 8     | 28       |          | RT1420B7     | RT1420B6     |          |
|  |       | 33       |          |              | RT1424B6     |          |
|  |       | 39       |          |              | RT1422B6     |          |
|  |       | 56       |          | RT1426B7     | RT1426B6     |          |
|  |       | 1,000    |          |              | RT1436B6     |          |
|  | 2,700 | 33       |          |              | RT120B6      |          |
|  |       | 4,700    | 33       |              | RT1417B7     | RT1417B6 |
|  |       | 8,200    |          | RT1418B7     | RT1418B6     |          |
|  | 9     | 25       |          | RT1403B7     | RT1403B6     |          |
| 35   |       |          | RT1407B7 | RT1407B6     |              |          |
| 50   |       |          | RT1402B7 | RT1402B6     |              |          |
| 60   |       |          | RT1430B7 | RT1430B6     |              |          |
| 100  |       |          | RT1443B7 | RT1443B6     |              |          |
| 120  |       |          | RT1432B7 | RT1432B6     |              |          |
| G<br>Thevenin Configuration<br><br>  | 9     | 100      |          | RT1220B7     |              |          |
|  |       | 100      |          | RT1510B7     |              |          |
|  |       | 110      |          | RT1505B7     |              |          |
|  |       | 130      |          | RT1500B7     |              |          |
|  |       | 127      | 82.5     | RT1250B7     | RT1250B6     |          |
|  | 12    | 150      | 75       | RT134B7      |              |          |
|  |       | 220      | 1,800    | RT1211B7     |              |          |
|  |       | 250      | 62.5     | RT1251B7     | RT1251B6     |          |
|  |       | 330      | 470      | RT1210B7     |              |          |
|  |       | 100      |          |              | RT1520B6     |          |
| H<br>Top Bus Configuration<br><br>   | 4     | 1,000    | 36       |              | RT140B6      |          |
|  | 9     | 25       | 22       | RT1401B7     | RT1401B6     |          |
|  |       | 50       | 25       | RT1400B7     | RT1400B6     |          |
|  |       | 60       | 25       | RT1408B7     | RT1408B6     |          |
|  |       | 100      |          | RT1440B7     |              |          |
| 120  |       | RT1433B7 | RT1433B6 |              |              |          |
| 1,000  | 36    |          | RT141B6  |              |              |          |
| I<br>Horseshoe Configuration<br><br> | 8     | 187      | 100      | RT1721B7     | RT1721B6     |          |
|  |       | 140      | 165      | RT1723B7     | RT1723B6     |          |
|  |       | 140      | 135      | RT1725B7     | RT1725B6     |          |
|  |       | 70       | 187      | RT1727B7     | RT1727B6     |          |
|  | 16    | 70       | 240      | RT1729B7     | RT1729B6     |          |
|  |       | 140      | 165      | RT1722B7     |              |          |
|  |       | 140      | 135      | RT1724B7     |              |          |
|  |       | 187      | 100      | RT1720B7     |              |          |

Mechanical Outline

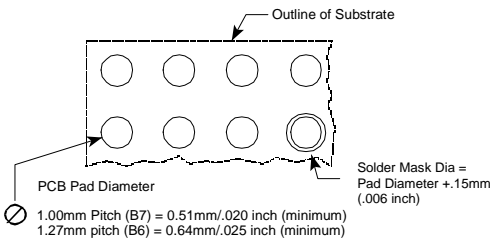


Operating Temperature : -55°C to +125°C

| 1.27 mm Pitch Package (B6 suffix) |           |            |
|-----------------------------------|-----------|------------|
|                                   | mm        | inch       |
| P                                 | 1.27±0.25 | .050±.010  |
| D                                 | 0.76±0.05 | .030±.002  |
| K                                 | 0.64±0.25 | .025±.010  |
| H                                 | 1.32±0.15 | .052±.006  |
| Array Size                        | L         | W          |
| 3 x 3                             | mm        | 3.81±0.15  |
|                                   | inch      | .150±.006  |
| 3 x 4                             | mm        | 5.08±0.15  |
|                                   | inch      | .200±.006  |
| 3 x 6                             | mm        | 7.62±0.15  |
|                                   | inch      | .300±.006  |
| 3 x 8                             | mm        | 10.16±0.15 |
|                                   | inch      | .400±.006  |
| 3 x 9                             | mm        | 11.43±0.15 |
|                                   | inch      | .450±.006  |
| 3 x 12                            | mm        | 15.24±0.15 |
|                                   | inch      | .600±.006  |
| 4 x 9                             | mm        | 11.43±0.15 |
|                                   | inch      | .450±.006  |

| 1.00 mm Pitch Package (B7 suffix) |           |            |
|-----------------------------------|-----------|------------|
|                                   | mm        | inch       |
| P                                 | 1.00±0.25 | .039±.010  |
| D                                 | 0.64±0.05 | .025±.002  |
| K                                 | 0.50±0.25 | .020±.010  |
| H                                 | 1.19±0.15 | .047±.006  |
| Array Size                        | L         | W          |
| 3 x 4                             | mm        | 4.00±0.15  |
|                                   | inch      | .157±.006  |
| 3 x 8                             | mm        | 8.00±0.15  |
|                                   | inch      | .315±.006  |
| 3 x 9                             | mm        | 9.00±0.15  |
|                                   | inch      | .354±.006  |
| 3 x 12                            | mm        | 12.00±0.15 |
|                                   | inch      | .472±.006  |
| 4 x 8                             | mm        | 8.00±0.15  |
|                                   | inch      | .315±.006  |
| 4 x 9                             | mm        | 9.00±0.15  |
|                                   | inch      | .354±.006  |
| 4 x 16                            | mm        | 16.00±0.15 |
|                                   | inch      | .630±.006  |

Recommended Land Pattern



For .006" Thick Solder Paste Stencil, Aperture Opening Should be Equal to the PCB Pad Diameter.  
Refer to [www.ctscorp.com/resistor](http://www.ctscorp.com/resistor) for Land Pattern Library

Environmental Performance

| Test Name                 | Max. Delta R | Mil Std. 202 Method | Test Cond. | Test Description                                    |
|---------------------------|--------------|---------------------|------------|---|
| Thermal Cycle (Resistors) | 0.50%        | 107                 | B          | 5 cycles, -65°C to +125°C                           |
| Short Time Overload       | 0.50%        |                     |            | 2.5 times rated voltage, 5 sec, (50V max)           |
| Moisture Resistance       | 0.50%        | 106                 |            | 240 hours, 0.1 x rated load, -10°C to +65°C, 90% RH |
| Load Humidity             | 1.00%        |                     |            | 1,000 hours, 0.1 x rated load, 70°C, 85-92% RH      |
| High Temp. Exposure       | 1.00%        |                     |            | 240 hours, no load @ 125°C                          |
| Load Life                 | 1.00%        | 108                 | F          | 2,000 hours @ 70°C, 100% rated load                 |
| Resistance to solder Heat | 0.25%        |                     |            | Per IPC/JEDEC J-STD-020C                            |
| Mechanical Shock          | 0.25%        | 213                 | I          | 100G, 1 msec., 3 shocks each plane                  |
| Low Temp. Storage         | 0.25%        |                     |            | 24 hours @ -65°C, no load                           |
| Low Temp. Operation       | 0.25%        |                     |            | 24 hours @ -65°C, full load                         |
| Flammability              |              |                     |            | UL 94V0   |
| Resistance to Solvents    |              | 215                 | J          |   |

Tape and Reel Packaging  
(Bulk Packaging Not Available)

| Suffix        | TR7    | TR13    |
|---------------|--------|---------|
| Tape Width    | 24 mm  | 24mm    |
| Carrier Pitch | 8 mm   | 8 mm    |
| Reel Diameter | 7 inch | 13 inch |
| Parts/Reel    | 1,000  | 4,000   |

Part Number Coding

7 inch reel, Add TR7 to part number, example RT2415B7TR7

13 inch reel, Add TR13 to part number, example RT2415B7TR13

