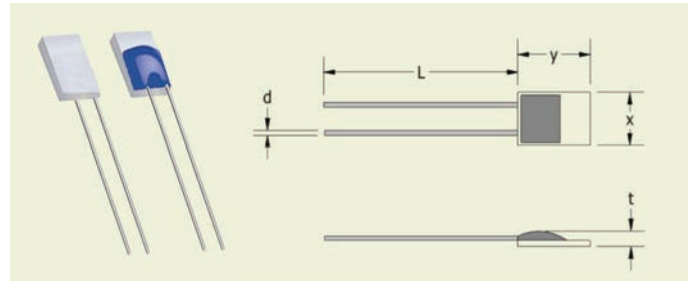


THIN FILM PLATINUM RTD ELEMENT

- Resistances from 100 to 1000 ohms at 0°C
- Temperature Range -70°C to +600°C
- Can be welded, brazed or soldered
- Can be provided with extension lead wires
- Other resistance values, materials available



| RTD Type | Res. At 0°C ohms | T.C.R. ¹ ppm/K | Chip size mm | Thick. (t) mm | Wire diam (d) mm | Length (L) mm | Wire type | Max Temp °C |
|----------|---------------------|------------------------------|-----------------|------------------|---------------------|------------------|--------------|----------------|
| RPT1002M | 100 | 3,850 | 2.1 x 2.3 | 0.9 | 0.20 | 10 | PtNi | 500 |
| RPT5002M | 500 | 3,850 | 2.1 x 3.9 | 0.9 | 0.20 | 10 | PtNi | 500 |
| RPT1003M | 1,000 | 3,850 | 2.1 x 2.3 | 0.9 | 0.20 | 10 | PtNi | 500 |
| RPT1002L | 100 | 3,850 | 1.9 x 2.3 | 1.0 | 0.25 | 10 | AgPd | 400 |
| RPT1003L | 1,000 | 3,850 | 1.9 x 2.3 | 1.0 | 0.25 | 10 | AgPd | 400 |
| RPT1002G | 100 | 3,850 | 1.25 x 1.7 | 0.8 | 0.15 | 10 | PtNi | 500 |
| RPT1003G | 1,000 | 3,850 | 1.25 x 1.7 | 0.8 | 0.15 | 10 | PtNi | 500 |
| RPT1002R | 100 | 3,850 | 1.0 x 3.0 | 0.5 | 0.15 | 10 | PtNi | 500 |
| RPT1003R | 1,000 | 3,850 | 1.0 x 3.0 | 0.5 | 0.15 | 10 | PtNi | 500 |
| RPT1002H | 100 | 3,850 | 1.9 x 2.3 | 1.0 | 0.20 | 8 | PtPd | 600 |
| RPT1003S | 1,000 | 3,750 | 2.1 x 2.3 | 0.9 | 0.20 | 8 | PtNi | 500 |

¹T.C.R. = Temperature Coefficient of Resistance

ENGINEERING NOTES:

- * Specification - DIN EN 60751
- * Available accuracy
DIN Class B
DIN Class A
DIN Class 1/3 B
- * Stability -
Max R0 drift 0.4% after 1000 hrs at max temp.
- * Measuring current
For 100 ohm 0.3 mA to 1.0 mA
For 500 ohm 0.1 mA to 0.7 mA
For 1000 ohm 0.1 mA to 0.3 mA
- * AgPd (Silver clad palladium) leads
recommended for soldering
- * PtNi (Platinum clad nickel) leads
recommended for welding.

| TEMP. (°C) | 3850 ppm/K | | | 3750 ppm/K |
|------------|------------|--------|--------|------------|
| | 100Ω | 500Ω | 1000Ω | 1000Ω |
| -50 | 80.31 | 401.6 | 803.1 | 807.9 |
| -25 | 90.19 | 451.0 | 901.9 | 904.4 |
| 0 | 100.00 | 500.0 | 1000.0 | 1000.0 |
| 25 | 109.74 | 548.7 | 1097.4 | 1094.9 |
| 50 | 119.40 | 597.0 | 1194.0 | 1189.0 |
| 75 | 128.99 | 644.9 | 1289.9 | 1282.4 |
| 100 | 138.51 | 692.5 | 1385.1 | 1375.0 |
| 125 | 147.95 | 739.8 | 1479.5 | 1466.9 |
| 150 | 157.33 | 786.6 | 1573.3 | 1558.0 |
| 175 | 166.63 | 833.1 | 1666.3 | 1648.4 |
| 200 | 175.86 | 879.3 | 1758.6 | 1738.0 |
| 225 | 185.01 | 925.1 | 1850.1 | 1826.8 |
| 250 | 194.10 | 970.5 | 1941.0 | 1914.9 |
| 275 | 203.11 | 1015.6 | 2031.1 | 2002.3 |
| 300 | 212.05 | 1060.3 | 2120.5 | 2088.9 |
| 325 | 220.92 | 1104.6 | 2209.2 | 2174.7 |
| 350 | 229.72 | 1148.6 | 2297.2 | 2259.8 |
| 375 | 238.44 | 1192.2 | 2384.4 | 2344.2 |
| 400 | 247.09 | 1235.5 | 2470.9 | 2427.8 |
| 425 | 255.67 | 1278.4 | 2556.7 | 2510.6 |
| 450 | 264.18 | 1320.9 | 2641.8 | 2592.7 |
| 475 | 272.61 | 1363.1 | 2726.1 | 2674.0 |
| 500 | 280.98 | 1404.9 | 2809.8 | 2754.6 |

SENSING TECHNOLOGIES, INC.

5582 Enterprise Parkway, Fort Myers, FL 33905 ♦ Tel: 239-600-6633 ♦ Fax: 239-694-0031

Email: sales@sensing-tech.com ♦ www.sensing-tech.com