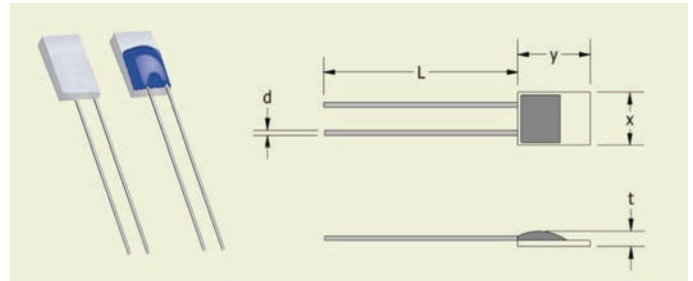


## THIN FILM PLATINUM RTD ELEMENT

- 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. <sup>1</sup> 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

<sup>1</sup>T.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

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