



Thin Film Platinum RTD's

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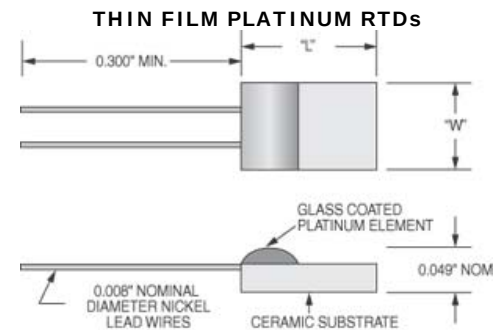
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U.S. Sensor's thin film platinum resistance temperature detectors (Pt-RTD) consist of a thin film platinum deposited on a ceramic substrate. Thin film Pt-RTD's provide cost advantages when compared to wire wound Pt-RTD's because of their lower material cost factor.

Features

- Glass coated platinum element
- Virtually linear relationship between temperature and resistance
- Capable of withstanding temperatures ranging from -50°C to +500°C. Higher temperature ratings are available by special order
- High accuracy: Resistance and temperature deviation can be controlled to within $\pm 0.06\%$ and $\pm 0.15^\circ\text{C}$, a tolerance that corresponds to Class "A" of IEC 751 or 1/2 DIN of DIN 43760
- High Reliability: Capable of withstanding extreme environmental conditions
- Available in various probe configurations for specific applications
- Excellent stability even at high temperatures



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Specifications

- Thermal time constant: 15 seconds max. (moving air)
- Dissipation constant: 2mW/°C (moving air)
- Maximum applied current: 1 mA

RTD THIN PLATINUM

Part Number	Resistance Ohms @ 0°C	DIN 43760 Class	Resistance Tol $\pm\%$ @ 0°C	Temp. Dev. $\pm^\circ\text{C}$ @ 0°C	TCR ppm / °C	Dim "W" (± 0.007)	Dim "L" (± 0.008)	View R-T Chart
PPG101A1	100	A	0.06	0.15	3850	0.067	0.110	View
PPG101B1	100	B	0.12	0.30	3850	0.067	0.110	View
PPG101C1	100	C	0.24	0.60	3850	0.067	0.110	View
PPG501A1	500	A	0.06	0.15	3850	0.079	0.118	View
PPG501B1	500	B	0.12	0.30	3850	0.079	0.118	View
PPG501C1	500	C	0.24	0.60	3850	0.079	0.118	View
PPG102A1	1000	A	0.06	0.15	3850	0.079	0.118	View
PPG102B1	1000	B	0.12	0.30	3850	0.079	0.118	View
PPG102C1	1000	C	0.24	0.60	3850	0.079	0.118	View
PPG102B2	1000	B	0.12	0.30	3750	0.079	0.118	View
PPG102C2	1000	C	0.24	0.60	3750	0.079	0.118	View

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