



U.S. SENSOR Corp.

Thermistors, RTDs, Probes & Assemblies

1-800-777-6467

Thin Film Platinum RTD's

Company Information

- [About U. S. Sensor](#)
- [Mission Statement](#)
- [Newsletter \(PDF\)](#)
- [Employment Opportunities](#)

Product Guide

- [NTC Thermistors](#)
- [NTC Probes & Assemblies](#)
- [RTD's](#)
- [RTD's Probes & Assemblies](#)

Technical Data

- [What is a thermistor](#)
- [Terminology](#)
- [Manufacturing Quality](#)

Markets and Applications

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Home

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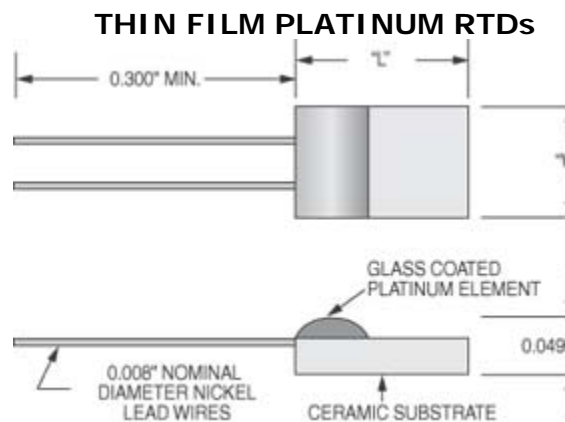
U.S. Sensor's thin film platinum resistance temperature detectors (Pt-RTD) consist of a thin film platinum deposited on a ceramic substrate. Thin film Pt-RTD's provide cost advantages when compared to wire wound Pt-RTD's because of their lower material cost factor.

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 ±0.06% and ±0.15°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

Specifications

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



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RTD THIN PLATINUM							
Part Number	Resistance Ohms @ 0°C	DIN 43760 Class	Resistance Tol ±% @ 0°C	Temp. Dev. ±°C @ 0°C	TCR ppm/°C	Dim "W" (±0.007)	Dim "L" (±0.007)
PPG101A1	100	A	0.06	0.15	3850	0.067	0.067
PPG101B1	100	B	0.12	0.30	3850	0.067	0.067
PPG101C1	100	C	0.24	0.60	3850	0.067	0.067
PPG101D1	100	D	0.48	1.20	3850	0.067	0.067
PPG501A1	500	A	0.06	0.15	3850	0.079	0.079
PPG501B1	500	B	0.12	0.30	3850	0.079	0.079
PPG501C1	500	C	0.24	0.60	3850	0.079	0.079
PPG501D1	500	D	0.48	1.20	3850	0.079	0.079
PPG102A1	1000	A	0.06	0.15	3850	0.079	0.079
PPG102B1	1000	B	0.12	0.30	3850	0.079	0.079

PPG102C1	1000	C	0.24	0.60	3850	0.079	0.1
PPG102D1	1000	D	0.48	1.20	3850	0.079	0.1
PPG102A2	1000	A	0.06	0.15	3750	0.079	0.1
PPG102B2	1000	B	0.12	0.30	3750	0.079	0.1
PPG102C2	1000	C	0.24	0.60	3750	0.079	0.1
PPG102D2	1000	D	0.48	1.20	3750	0.079	0.1

[« Product Guide](#)

[Top^](#)

[Ne](#)