Aerospace & Defense

Surface Mount Platinum RTD

Engineering Information:

- RTD chip
- Operating temperature range: -50°C to 130°C
- 100 ohm, 500 ohm, 1,000 ohm RTD elements available
- TCR 3850 ppm/k (DIN EN 60751)
- Class B = F0.3
- Class 2B= F0.6
- Long-term stability = R_0-Drift 0.06% after 1000Hrs at 150°C
- Self heating = 0.8 K/mW at 0°C
- Response time 0.05 seconds in moving water at a velocity of 0.4 meters per second at t0.5
- Response time 0.15 seconds in moving air at a velocity of 2 meters per second at t0.9

Applications:

- Automated board mounting in high-volume applications on circuit boards
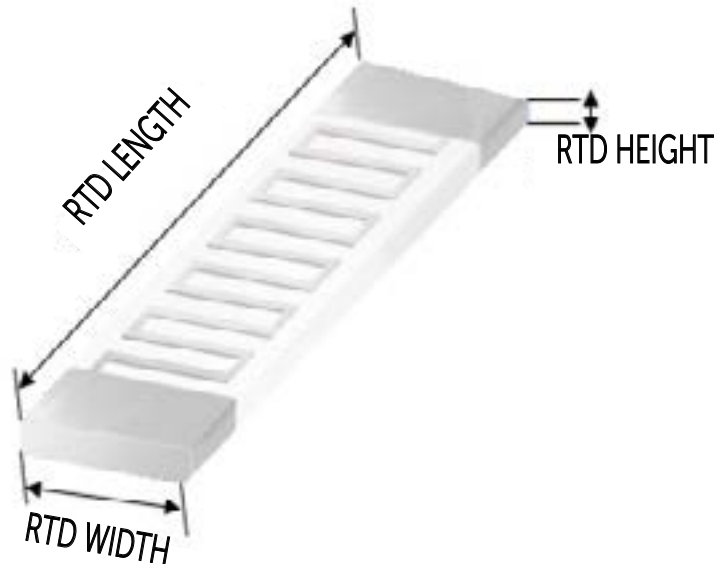
Series Information:

100 ohm and 100 ohm DIN standard RTD elements are available in surface mount design. The 1206 and 805 SMD chips have accuracies of 1/3 degree at 0°C and can be used from -50°C to + 130°C. They are supplied in tape and reel packaging for large volume pick and place assembly and are reliable for applications that require long time stability and interchangeability.

Aerospace and Defense Overview:

QTI maintains an extensive test laboratory, designed with defense and aerospace customers in mind. This test lab is ISO 9001:2008 and AS9100 Revision B certified. We are qualified to perform all tests dictated by the Department of Defense, Defense Logisitcs Agency MIL-PRF-23648, and MIL-PRF-32192 specifications. In addition we have the facilities to perform many of the tests specified in MIL-STD-202, MIL-STD-883, NASA Goddard S-311-P-18 and S-311-P-827, EEE-INST-002, TOR-2006, ESA 4006, and MIL-PRF-38534 Class K and H Element Evaluation tests.

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Surface Mount Platinum RTD Specifications

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QTI is the unparalleled leader in world-class temperature sensing technology with over for 40 years of proven expertise for the most demanding customers in the world. We custom-engineer the industry's most reliable temperature sensors for mission-critical applications. As a true business partner, we deliver beyond the products we make as we relentlessly pursue excellence in everything we do.

Contact us to discuss your temperature sensing needs today.