

## Sensing Elements

### 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:

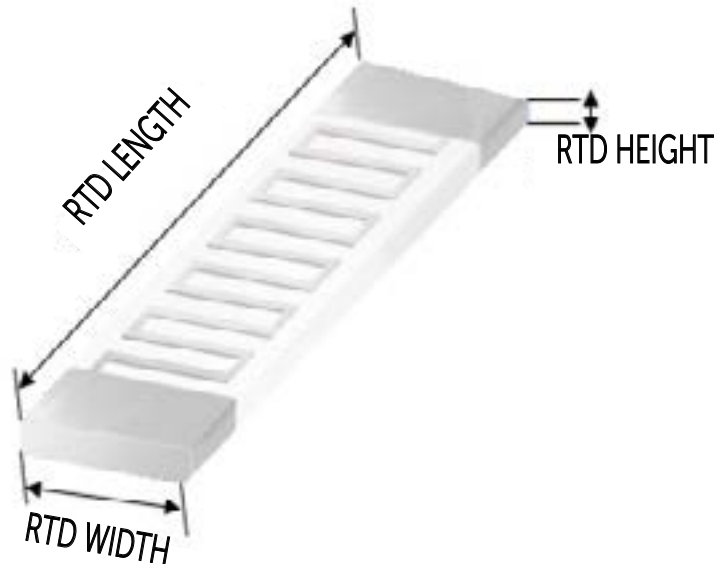
100 ohm and 100 ohm DIN standard RTD elements are available in surface mount design. The 1206 and 805 SMD chips have accuracies of 1/3 degree at 0°C and can be used from -50°C to + 130°C. They are supplied in tape and reel packaging for large volume pick and place assembly and are reliable for applications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