

## Sensing Elements

### M32192/3 NTC Thermistor Die

#### Engineering Information:

- NTC thermistor chip
- Operating temperature range: -55°C to 125°C
- Standard resistance range at 25°C: 15 to 20M ohms
- Power rating: 0.0625 W at 25°C, derate to 0 W at 125°C
- Thermal time constant: 10 seconds max in still air\*
- Dissipation constant: 0.625 mW/°C min in still air\*
- Curves: A, B, H
- Tolerances: 1%, 2%, 5%, 10%
- Available with Sn/Pb or Au terminators
- Commercial options available
- RoHS compliant options available

\* Depends on Mounting



#### Applications:

- Die attach and wire bonding in hybrid circuitry
- Localized temperature sensing, compensation, protection and frequency control for sensitive communications systems and infrared sensing equipment

#### Series Information:

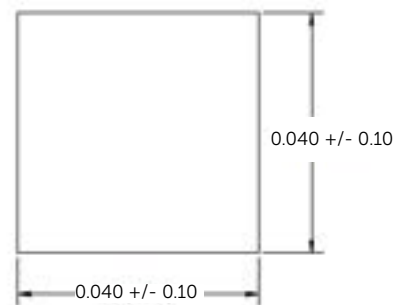
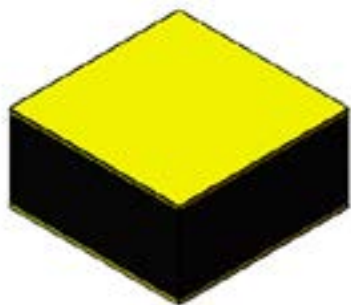
The high-reliability M32192/3 NTC chip precision thermistor is designed for wire bonding applications found in hybrid circuitry. The "Top-Bottom" electrodes are available in silver or gold termination finishes for high-reliability conductive epoxy/wire bonded attachment. These NTC chips thermistors accommodate most industry standard attachment methods and are ideal for applications requiring narrow band, temperature point matching control, and are also available in a commercial version. Several base resistance and curve combinations are available to suit a wide range of temperature compensation applications.

#### 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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### M32192/3 NTC Thermistor Die 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.