

Sensing Elements

Space Level NASA GSFC S-311-P-18

Engineering Information:

- NTC thermistor
- Operating temperature range: -55°C to 90°C
- Standard resistance range at 25°C: 2.25k to 30k ohms
- Power rating: 0.200 W at 25°C, derate to 0 W at 125°C
- Thermal time constant: 10/20/25 seconds max in still air*
- Dissipation constant: 1 mW/°C min in still air
- Curves: B, M
- Interchangeable tolerances: +/- 0.1°C or +/-0.2°C
- #28-#32 AWG leads available
- Lead length: 7.6-100cm
- Insulation and bead color can be specified
- Acceptable for use in NASA space programs specifying quality level (Grade) 1 parts
- Single lot traceability

*Depends on lead type configuration

Applications:

- Temperature compensation, control and measurement

Series Information:

QTI's Space Level NASA GSFC specified NTC precision thermistor meets or exceeds all the requirements of NASA/GSFC S-311-P-18. These thermistors can either be insulated or non-insulated, include a specified bead color, and are used for temperature compensation, control and/or measurement over the specified temperature range during extended flight in space.

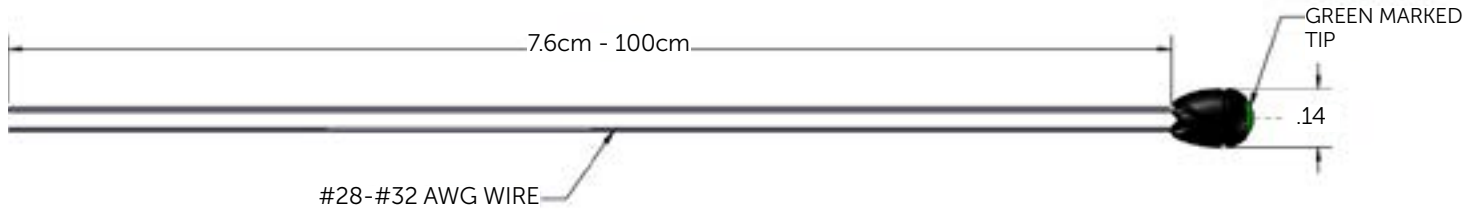
Aerospace and Defense Overview:

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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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.