

MEAS Thermistor Components



Surface Mount
Thermistors

Measurement Specialties (MEAS) has been in the temperature measurement business for over 50 years and offers a full line of thermistor components specifically designed for the most challenging and precise applications. MEAS has operated in the high quality, high precision segment of the market with thermistors manufactured to very close tolerance.

Thermistors are sold individually, as part of a temperature probe, or as part of an instrument. MEAS offers high precision thermistor components, customizable probes, and assemblies that provide precise and reliable temperature measurement in the most demanding applications. MEAS experienced Applications Engineering group partners with you to engineer and manufacture customized solutions. Whether it is an application that depends on sensor interchangeability, reliability, or high accuracy, MEAS provides state-of-the-art thermal control and best business practices to ensure your product's success.



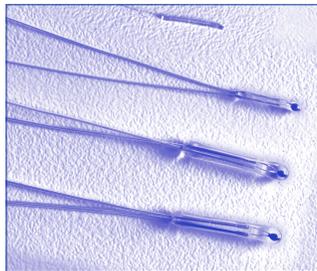
46000 Series

NTC Leaded Thermistor Components

Negative Temperature Coefficient (NTC) Leaded Thermistors offer a low cost, flexible solution for temperature measurement. Variations include encapsulated material around the thermistor, component leads, working temperature ranges, as well as interchangeability tolerances.

Surface Mount

Surface Mount Thermistors from MEAS are ideal for temperature sensing functions found in temperature compensation networks and where temperature sensing within a constrained area is needed. MEAS offers both End Band and Top/Bottom Electrode Surface Mount Thermistors.



Bead-in-Glass Thermistors

Glass Micro-Bead

MEAS offers unique micro-bead thermistor technology which allows production of smaller and smaller temperature sensors to meet market demands. Fast response times and high power sensitivities make bead thermistors ideal for fluid or gas flow measurement and control applications. They are available in a range of resistance values and curves and in various accuracy tolerances. Bead-in-glass probes incorporate bead thermistor advantages into a more rugged and versatile form.



44900 NASA Space Qualified Thermistors

Flight Qualified

For flight tested applications, MEAS NASA Qualified parts offer interchangeable precision with various lead options per GSFC S-311-P-18.

To order or for more information, contact your local representative or the MEAS Temperature customer service team.

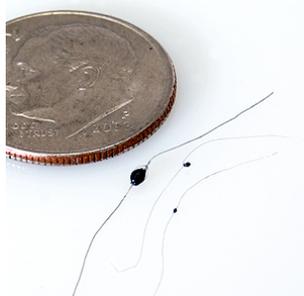
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ISO 9001
AS9100



MEAS Bead Thermistors

Description	Construction	Coating	Size	Resistances @ 25°C
44000 Precision™ Interchangeable	Pressed disk, silver electrodes 32 AWG Solder-plated leads	Epoxy	0.095" Ø 2.4 mm	100Ω to 1MΩ
44100 Series with Teflon™ Sheath	Epoxy-coated pressed disk with Teflon™ Sheath	Teflon™	0.110" Ø 2.8 mm	2252Ω to 30kΩ
45000 Series High Temperature Hermetic	Pressed disk, proprietary electrodes 32 AWG gold-plated Dumet leads	Lead borosilicate glass	0.125" Ø 3.2 mm	2252Ω to 30kΩ
46000 Super Stable	Pressed disk, proprietary electrodes 32 AWG gold-plated Dumet leads	Lead borosilicate glass	0.125" Ø 3.2 mm	2252Ω to 30kΩ
55000 GEM	Pressed disk, silver electrodes 32 AWG gold-plated Dumet leads	Lead borosilicate glass	0.095" Ø 2.4 mm	2252Ω to 30kΩ
44900 NASA Space Qualified	Pressed disk, silver electrodes Various lead types	Epoxy	0.095" Ø 2.4 mm	2252Ω to 30kΩ
SensiChips®	Cast ceramic chip, silver electrodes 26-28 AWG Solder-plated leads	Epoxy	0.095" Ø 2.4 mm	50Ω to 10MΩ
Top/Bottom Electrode Surface Mount	Cast ceramic chip, silver or gold electrodes	None	≥0.040" x 0.040" ≥0.25 x 0.25 mm	50Ω to 20MΩ
End Band Surface Mount	Cast ceramic chip, glass passivated 5-sided end bands	Glass passivation	0603; 0805; 1206	10kΩ to 200kΩ
Small Bead	Ceramic sintered onto platinum-iridium alloy leads	Soda lead glass	0.010" to 0.013" Ø 0.26 to 0.33 mm	1kΩ to 5MΩ
Medium Bead	Ceramic sintered onto platinum-iridium alloy leads	Soda lead glass	0.035" to 0.043" Ø 0.89 to 1.09 mm	100Ω to 12MΩ

MEAS Thermistor Component Temperature Ranges (in C)

