

55000 Series Thermistor Components

Glass Hermetic Seal
2252 Ohm to 30K Ohm Resistance
@ 25°C
0.095" (2.4 mm) Maximum
Diameter
Interchangeability to $\pm 0.1^\circ\text{C}$
Excellent High Temperature
Performance
Excellent Long Term Stability
RoHS Compliance



55000 SERIES THERMISTORS

Moisture-proof Hermetic Glass
Encapsulated Precision Interchangeable
NTC Thermistor utilizing high stability
pressed-disk ceramic sensor for general
applications

FEATURES

- Glass Hermetic Seal
- 2252 Ohm to 30K Ohm Resistance @ 25°C
- 0.095" (2.4 mm) Maximum Diameter
- Interchangeability to $\pm 0.1^\circ\text{C}$
- Excellent High Temperature Performance
- Excellent Long Term Stability
- RoHS Compliance

APPLICATION

- High Moisture Applications
- Low to Mid Range Temperature Applications
- Drop in Replacement for 44000 Series Epoxy
- Tight Tolerance Instrumentation
- Use up to 200°C
- Applications Requiring Improved Stability
- Allows use in Applications World-wide

stability

MEAS thermistors are chemically stable and are not significantly affected by aging or exposure to strong nuclear radiation. The table below shows typical stability for a MEAS 55016.

Typical Thermometric Drift

Operating Temperature	10 months
0°C	< 0.01°C
25°C	< 0.01°C
100°C	0.12°C
150°C	0.15°C
200°C	0.20°C

55000 Series Thermistor Components

product definition

	Part Number	Zero Power Resistance Ohm at 25°C	Beta 0- 50°C (K)	Ratio Ohm 25/125°C	Short Term Temperature	Best Working Temperature
±0.2°C Interchangeability Tolerance 0 – 70°C	55004	2252	3891	29.26	250°C	-80-+200°C
	55005	3000	3891	29.26	250°C	-80-+200°C
	55007	5000	3891	29.26	250°C	-80-+200°C
	55017	6000	3891	29.26	250°C	-80-+200°C
	55016	10K	3891	29.26	250°C	-80-+200°C
±0.1°C Interchangeability Tolerance 0 – 70°C	55006	10K	3574	23.51	200°C	-80-+150°C
	55008	30K	3810	29.15	200°C	-80-+150°C
	55033	2252	3891	29.26	250°C	-80-+125°C
	55030	3000	3891	29.26	250°C	-80-+125°C
	55034	5000	3891	29.26	250°C	-80-+125°C
	55037	6000	3891	29.26	250°C	-80-+125°C
	55036	10K	3891	29.26	250°C	-80-+125°C
	55031	10K	3574	23.51	200°C	-80-+100°C
	55032	30K	3810	29.15	200°C	-80-+100°C

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.

ordering info