MEAS Interchangeable Thermistors

MEAS 44000RC Series Epoxy-Encapsulated for General Use

RoHS Compliant

DESCRIPTION

MEAS Interchangeable Thermistors -
Measurement Specialties provides highly accurate and stable temperature sensing for measurement, control, indication and compensation. The tight interchangeability of our precision components allows precise measurement without calibration of circuitry to match individual components.

We offer two interchangeability tolerances ±0.2°C and ±0.1°C. Choose epoxy-encapsulated components for applications where cost, flexibility and a wide range of resistance values are important.

FEATURES

- High sensitivity to detect small temperature changes
- High density ceramic sensor provides:
  - Best Stability
  - ±0.2°, ±0.1° interchangeability

APPLICATIONS

- Temperature Control for DNA Replication/Analysis and Cytology Equipment
- Temperature Control in Photocopy Machines and in Photo Reproduction and Enlargement Machines
- Temperature Monitoring for Telecommunications Battery Backup Systems
- Temperature Monitoring and Control in Clean Rooms/Controlled Environments
- Temperature Monitoring on the Ocean Floor
- Heater Monitor/Control for Outdoor Pool/Spa
- Temperature Monitoring for Fruit Growers

specifications

Time Constant
1 sec max when suspended by their leads in a well-stirred oil bath. In still air, 10 sec max.

Dissipation Constant
8mW/°C min when suspended by their leads in a well-stirred oil bath, or 1mW/°C in still air.

Stability
Measurement Specialties thermistors are chemically stable and not significantly affected by aging or exposure to strong nuclear radiation.

Resistance/Temperature Data
A °C resistance vs temperature table in 1°C increments is available on www.meas-spec.com.

Interchangeability Tolerance Data
Tables on www.meas-spec.com show nominal resistance values, ohms per degree and tolerance at select temperatures over the operating range.

Maximum Power
30mW at 25°C to 1mW at 125°C short-term.

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ordering information

Parameters

	Ordering Part Number	Zero Power Resistance Ω at 25° G	Beta 0-50(K)	Ratio Ω 25/125°	Max Working Temp.	Best Storage & Working Temp	Mix
±0.2°C	44001RC	100	2854	11.49	100°C	-80 to +50°C	L
Interchangeability	44002RC	300	3118	15.15	100°C	-80 to +50°C	L
Tolerance 0 to 70°C	44003RC	1000	3271	17.33	100°C	-80 to +50°C	L
	44035RC	1000	3271	17.33	100°C	-80 to +50°C	L
	44004RC	2252	3891	29.26	150°C	-80 to +120°C	B
	44005RC	3000	3891	29.26	150°C	-80 to +120°C	B
	44007RC	5000	3891	29.26	150°C	-80 to +120°C	B
	44017RC	6000	3891	29.26	150°C	-80 to +120°C	B
	44016RC	10K	3891	29.26	150°C	-80 to +120°C	B
	44006RC	10K	3574	23.51	150°C	-80 to +120°C	H
	44008RC	30K	3810	29.15	150°C	-80 to +120°C	H
	44011RC	100K	3988	34.82	150°C	-80 to +120°C	H
	44014RC	300K	4276	46.02	150°C	-80 to +120°C	H
	44015RC	1 meg	4582	61.96	150°C	-80 to +120°C	H
±0.1°C	44033RC	2252	3891	29.26	150°C	-80 to +75°C	B
Interchangeability	44030RC	3000	3891	29.26	150°C	-80 to +75°C	B
Tolerance 0 to 70°C	44034RC	5000	3891	29.26	150°C	-80 to +75°C	B
	44036RC	10K	3891	29.26	150°C	-80 to +75°C	B
	44037RC	6K	3891	29.26	150°C	-80 to +75°C	B
	44031RC	10K	3574	23.51	150°C	-80 to +75°C	H
	44032RC	30K	3810	29.15	150°C	-80 to +75°C	H

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