

44001RC Precision Epoxy NTC Thermistor



100 ohm Resistance @ 25°C
Interchangeable $\pm 0.2^\circ\text{C}$, 0°C to 50°C
Pressed Disk Ceramic Sensor
High sensitivity
Thermally conductive epoxy coating
0.095" (2.4 mm) Maximum Diameter
32 AWG, 3" (7.6 cm) long Silver plated
copper leads
RoHS Compliant

DESCRIPTION

Epoxy Encapsulated Precision Interchangeable NTC Thermistor utilizing high stability pressed-disk ceramic sensor for general applications.

FEATURES

- 100 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

APPLICATIONS

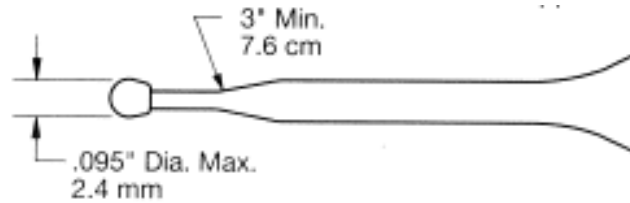
- Low Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	100
tolerance 0°C to 50°C	$^\circ\text{C}$	± 0.2
Beta Value 25/85	K	2873
Tolerance on Beta Value	%	0.8
Time response in air	Seconds	< 10
Dissipation Constant in air	mW/ $^\circ\text{C}$	1
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

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MECHANICAL DETAILS



RESISTANCE V TEMPERATURE TABLE

Temp °C	K- Ohms	Temp °C	K- Ohms	Temp °C	K- Ohms	Temp °C	K- Ohms
-80	14.470	-35	1.073	10	0.1659	55	0.0415
-79	13.510	-34	1.023	11	0.1601	56	0.0404
-78	12.620	-33	0.975	12	0.1546	57	0.0393
-77	11.800	-32	0.930	13	0.1493	58	0.0383
-76	11.040	-31	0.887	14	0.1442	59	0.0373
-75	10.330	-30	0.846	15	0.1394	60	0.0364
-74	9.672	-29	0.808	16	0.1347	61	0.0354
-73	9.061	-28	0.771	17	0.1302	62	0.0345
-72	8.494	-27	0.736	18	0.1259	63	0.0337
-71	7.966	-26	0.704	19	0.1217	64	0.0328
-70	7.475	-25	0.673	20	0.1177	65	0.0320
-69	7.018	-24	0.643	21	0.1139	66	0.0312
-68	6.592	-23	0.615	22	0.1102	67	0.0304
-67	6.195	-22	0.588	23	0.1067	68	0.0297
-66	5.825	-21	0.563	24	0.1033	69	0.0290
-65	5.479	-20	0.539	25	0.1000	70	0.0283
-64	5.157	-19	0.516	26	0.0969	71	0.0276
-63	4.856	-18	0.494	27	0.0938	72	0.0269
-62	4.575	-17	0.474	28	0.0909	73	0.0263
-61	4.312	-16	0.454	29	0.0881	74	0.0256
-60	4.066	-15	0.435	30	0.0854	75	0.0250
-59	3.835	-14	0.417	31	0.0828	76	0.0245
-58	3.620	-13	0.400	32	0.0803	77	0.0239
-57	3.418	-12	0.384	33	0.0778	78	0.0233
-56	3.229	-11	0.369	34	0.0755	79	0.0228
-55	3.051	-10	0.354	35	0.0732	80	0.0223
-54	2.885	-9	0.340	36	0.0711	81	0.0218
-53	2.729	-8	0.327	37	0.0690	82	0.0213
-52	2.582	-7	0.314	38	0.0670	83	0.0208
-51	2.445	-6	0.302	39	0.0650	84	0.0203
-50	2.315	-5	0.290	40	0.0631	85	0.0199
-49	2.194	-4	0.279	41	0.0613	86	0.0194
-48	2.079	-3	0.268	42	0.0596	87	0.0190
-47	1.972	-2	0.258	43	0.0579	88	0.0186
-46	1.870	-1	0.249	44	0.0562	89	0.0182
-45	1.775	0	0.239	45	0.0547	90	0.0178
-44	1.685	1	0.230	46	0.0531	91	0.0174
-43	1.600	2	0.222	47	0.0517	92	0.0170
-42	1.521	3	0.214	48	0.0502	93	0.0166
-41	1.445	4	0.206	49	0.0489	94	0.0163
-40	1.374	5	0.199	50	0.0475	95	0.0159
-39	1.307	6	0.192	51	0.0462	96	0.0156
-38	1.244	7	0.185	52	0.0450	97	0.0153
-37	1.184	8	0.178	53	0.0438	98	0.0150
-36	1.127	9	0.172	54	0.0426	99	0.0146
						100	0.0143

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701001	44001RC,THERMISTOR,ROHS COMPLIANT	100	\$2000
701101	44001RC-BP (100 PCS),THERM,ROHS	100	\$2000

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

Measurement Specialties, Inc.
2670 Indian Ripple Road
Dayton, OH 45440
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