



MODEL 44001

Precision Epoxy NTC Thermistor

- 100 ohm Resistance @ 25°C
- Interchangeable $\pm 0.2^{\circ}\text{C}$, 0°C to 70°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

FEATURES

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

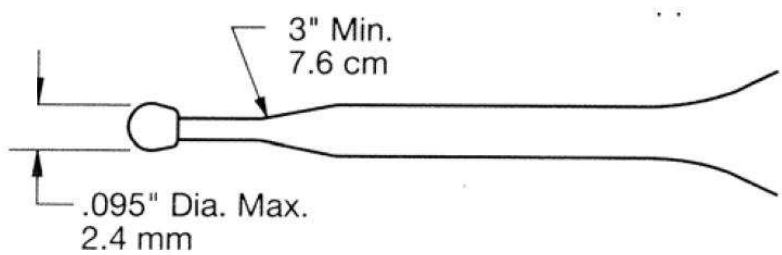
APPLICATIONS

- High-range 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 70°C	°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/°C	1
Insulation Resistance (Min. of 100 Mohms for 1 sec.)	Volts	500

MECHANICAL DETAILS



TYPICAL PERFORMANCE CURVES (RESISTANCE OF INDIVIDUAL THERMISTORS)

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	300
701101	44001RC-BP (100 PCS),THERM,ROHS	100	300

* For quantities less than Minimum Order Quantity – contact distribution

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