



## MODEL 44003

### Precision Epoxy NTC Thermistor

- 1000 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

- 1000 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

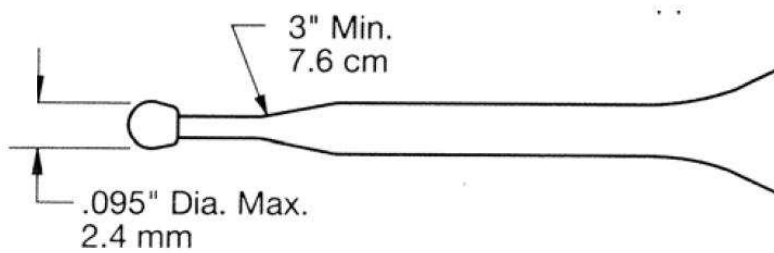
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### PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	1000
Tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	3312
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	279.915	-35	14.859	10	1.784	55	0.363
-79	259.114	-34	14.069	11	1.714	56	0.352
-78	240.012	-33	13.327	12	1.646	57	0.342
-77	222.457	-32	12.628	13	1.582	58	0.332
-76	206.315	-31	11.971	14	1.521	59	0.322
-75	191.461	-30	11.353	15	1.462	60	0.312
-74	177.78	-29	10.770	16	1.406	61	0.303
-73	165.18	-28	10.221	17	1.353	62	0.294
-72	153.56	-27	9.704	18	1.301	63	0.285
-71	142.85	-26	9.216	19	1.252	64	0.277
-70	132.96	-25	8.756	20	1.206	65	0.269
-69	123.82	-24	8.321	21	1.161	66	0.261
-68	115.38	-23	7.912	22	1.118	67	0.254
-67	107.57	-22	7.524	23	1.077	68	0.247
-66	100.35	-21	7.159	24	1.038	69	0.240
-65	93.666	-20	6.813	25	1.000	70	0.233
-64	87.472	-19	6.487	26	0.964	71	0.226
-63	81.732	-18	6.178	27	0.929	72	0.220
-62	76.408	-17	5.885	28	0.896	73	0.214
-61	71.469	-16	5.609	29	0.865	74	0.208
-60	66.884	-15	5.347	30	0.834	75	0.203
-59	62.625	-14	5.099	31	0.805	76	0.197
-58	58.667	-13	4.864	32	0.777	77	0.192
-57	54.987	-12	4.641	33	0.750	78	0.187
-56	51.563	-11	4.430	34	0.724	79	0.182
-55	48.377	-10	4.230	35	0.699	80	0.177
-54	45.409	-9	4.040	36	0.676	81	0.172
-53	42.643	-8	3.860	37	0.653	82	0.167
-52	40.066	-7	3.689	38	0.631	83	0.163
-51	37.661	-6	3.527	39	0.610	84	0.159
-50	35.418	-5	3.373	40	0.590	85	0.155
-49	33.323	-4	3.226	41	0.570	86	0.151
-48	31.367	-3	3.087	42	0.551	87	0.147
-47	29.539	-2	2.955	43	0.533	88	0.143
-46	27.829	-1	2.829	44	0.516	89	0.139
-45	26.231	0	2.709	45	0.499	90	0.136
-44	24.735	1	2.595	46	0.483	91	0.132
-43	23.334	2	2.486	47	0.468	92	0.129
-42	22.022	3	2.383	48	0.453	93	0.126
-41	20.793	4	2.285	49	0.439	94	0.123
-40	19.640	5	2.191	50	0.425	95	0.120
-39	18.559	6	2.102	51	0.412	96	0.117
-38	17.545	7	2.017	52	0.399	97	0.114
-37	16.593	8	1.935	53	0.387	98	0.111
-36	15.699	9	1.858	54	0.375	99	0.109
						100	0.106

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### ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
701003	44003RC,THERMISTOR,ROHS COMPLIANT	1000	300
701103	44003RC-BP (100 PCS),THERM,ROHS	1000	300

\* For quantities less than Minimum Order Quantity – contact distribution

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