

MODEL 44002

Precision Epoxy NTC Thermistor

- 300 ohm Resistance @ 25°C
- Interchangeable ±0.2°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

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

APPLICATIONS

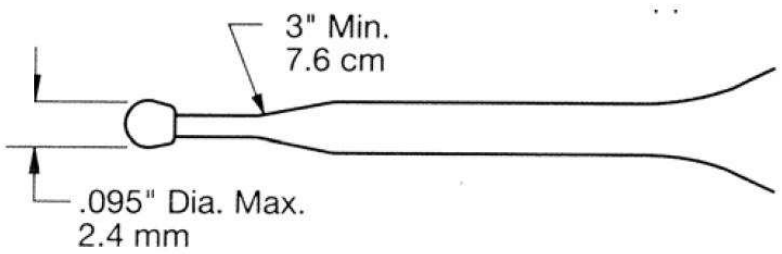
- High-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

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PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	300
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



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TYPICAL PERFORMANCE CURVES (RESISTANCE OF INDIVIDUAL THERMISTORS)

Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms
-80	67.660	-35	3.975	10	0.5215	55	0.1145
-79	62.780	-34	3.772	11	0.5017	56	0.1112
-78	58.290	-33	3.580	12	0.4829	57	0.1080
-77	54.150	-32	3.400	13	0.4649	58	0.1050
-76	50.340	-31	3.230	14	0.4476	59	0.1020
-75	46.830	-30	3.069	15	0.4312	60	0.0991
-74	43.580	-29	2.918	16	0.4154	61	0.0963
-73	40.590	-28	2.775	17	0.4002	62	0.0937
-72	37.820	-27	2.640	18	0.3858	63	0.0911
-71	35.260	-26	2.512	19	0.3719	64	0.0886
-70	32.900	-25	2.392	20	0.3586	65	0.0861
-69	30.710	-24	2.278	21	0.3459	66	0.0838
-68	28.680	-23	2.170	22	0.3337	67	0.0815
-67	26.800	-22	2.068	23	0.3220	68	0.0793
-66	25.060	-21	1.972	24	0.3108	69	0.0772
-65	23.450	-20	1.880	25	0.3000	70	0.0752
-64	21.950	-19	1.794	26	0.2897	71	0.0732
-63	20.550	-18	1.712	27	0.2798	72	0.0713
-62	19.260	-17	1.634	28	0.2703	73	0.0694
-61	18.050	-16	1.561	29	0.2611	74	0.0676
-60	16.930	-15	1.491	30	0.2524	75	0.0659
-59	15.890	-14	1.424	31	0.2439	76	0.0642
-58	14.920	-13	1.361	32	0.2359	77	0.0625
-57	14.020	-12	1.302	33	0.2281	78	0.0609
-56	13.170	-11	1.245	34	0.2206	79	0.0594
-55	12.390	-10	1.191	35	0.2134	80	0.0579
-54	11.650	-9	1.140	36	0.2065	81	0.0565
-53	10.970	-8	1.091	37	0.1998	82	0.0551
-52	10.330	-7	1.045	38	0.1934	83	0.0537
-51	9.730	-6	1.001	39	0.1873	84	0.0524
-50	9.171	-5	0.959	40	0.1814	85	0.0511
-49	8.647	-4	0.919	41	0.1757	86	0.0499
-48	8.158	-3	0.881	42	0.1702	87	0.0487
-47	7.699	-2	0.845	43	0.1649	88	0.0475
-46	7.270	-1	0.810	44	0.1598	89	0.0464
-45	6.867	0	0.778	45	0.1549	90	0.0453
-44	6.489	1	0.746	46	0.1501	91	0.0442
-43	6.135	2	0.716	47	0.1456	92	0.0432
-42	5.803	3	0.688	48	0.1412	93	0.0421
-41	5.491	4	0.661	49	0.1370	94	0.0412
-40	5.198	5	0.635	50	0.1329	95	0.0402
-39	4.922	6	0.610	51	0.1289	96	0.0393
-38	4.663	7	0.586	52	0.1251	97	0.0384
-37	4.420	8	0.564	53	0.1215	98	0.0375
-36	4.191	9	0.542	54	0.1179	99	0.0367
						100	0.0358

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ORDERING INFORMATION

Part Number	Description	Ω @25ºC	MOQ
701002	44002RC,THERMISTOR,ROHS COMPLIANT	300	300
701102	44002RC-BP (100 PCS),THERM,ROHS	300	300

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA
Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: 800-522-6752
customercare.ando@te.com

EUROPE
Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Tel: 800-440-5100
customercare.tlse@te.com

ASIA
Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Tel: 0400-820-6015
customercare.chdu@te.com

te.com/sensorsolutions

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