



MODEL 44004

Precision Epoxy NTC Thermistor

- 2252 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

- 2252 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

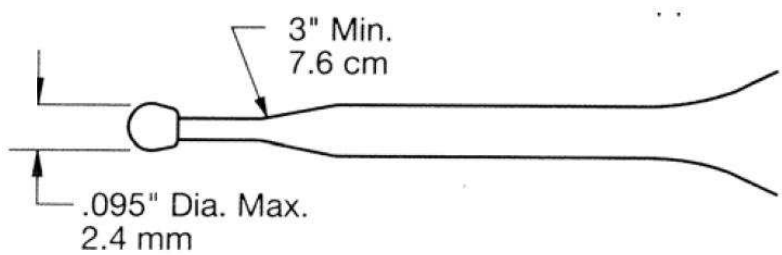
APPLICATIONS

- 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	2252
Tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	3978
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	Temp °C	K-Ohms
-55	217.100	-14	15.540	27	2.064	68	0.4225	109	0.1182
-54	201.700	-13	14.700	28	1.977	69	0.4082	110	0.1150
-53	187.400	-12	13.910	29	1.894	70	0.3945	111	0.1118
-52	174.300	-11	13.160	30	1.815	71	0.3812	112	0.1088
-51	162.200	-10	12.460	31	1.739	72	0.3685	113	0.1058
-50	151.000	-9	11.810	32	1.667	73	0.3562	114	0.1030
-49	140.600	-8	11.190	33	1.599	74	0.3445	115	0.1002
-48	131.000	-7	10.600	34	1.533	75	0.3331	116	0.0976
-47	122.100	-6	10.050	35	1.471	76	0.3223	117	0.0950
-46	113.900	-5	9.534	36	1.412	77	0.3118	118	0.0925
-45	106.300	-4	9.046	37	1.355	78	0.3017	119	0.0900
-44	99.260	-3	8.586	38	1.301	79	0.2920	120	0.0877
-43	92.720	-2	8.151	39	1.249	80	0.2827	121	0.0854
-42	86.650	-1	7.741	40	1.200	81	0.2737	122	0.0832
-41	81.020	0	7.355	41	1.152	82	0.2650	123	0.0811
-40	75.790	1	6.989	42	1.107	83	0.2567	124	0.0790
-39	70.930	2	6.644	43	1.064	84	0.2486	125	0.0770
-38	66.410	3	6.319	44	1.023	85	0.2409	126	0.0750
-37	62.210	4	6.011	45	0.9838	86	0.2334	127	0.0731
-36	58.300	5	5.719	46	0.9462	87	0.2262	128	0.0713
-35	54.660	6	5.444	47	0.9102	88	0.2193	129	0.0695
-34	51.270	7	5.183	48	0.8758	89	0.2126	130	0.0678
-33	48.110	8	4.937	49	0.8428	90	0.2061	131	0.0661
-32	45.170	9	4.703	50	0.8113	91	0.1999	132	0.0644
-31	42.420	10	4.482	51	0.7811	92	0.1939	133	0.0629
-30	39.860	11	4.273	52	0.7522	93	0.1881	134	0.0613
-29	37.470	12	4.074	53	0.7245	94	0.1825	135	0.0598
-28	35.240	13	3.886	54	0.6979	95	0.1771	136	0.0584
-27	33.150	14	3.708	55	0.6725	96	0.1719	137	0.0570
-26	31.200	15	3.539	56	0.6481	97	0.1669	138	0.0556
-25	29.380	16	3.378	57	0.6248	98	0.1620	139	0.0543
-24	27.670	17	3.226	58	0.6024	99	0.1573	140	0.0530
-23	26.070	18	3.081	59	0.5809	100	0.1528	141	0.0517
-22	24.580	19	2.944	60	0.5603	101	0.1484	142	0.0505
-21	23.180	20	2.814	61	0.5405	102	0.1442	143	0.0493
-20	21.870	21	2.690	62	0.5215	103	0.1401	144	0.0482
-19	20.640	22	2.572	63	0.5033	104	0.1361	145	0.0470
-18	19.480	23	2.460	64	0.4858	105	0.1323	146	0.0459
-17	18.400	24	2.354	65	0.4690	106	0.1286	147	0.0449
-16	17.390	25	2.252	66	0.4529	107	0.1250	148	0.0438
-15	16.430	26	2.156	67	0.4374	108	0.1216	149	0.0428
								150	0.0418

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701004	44004RC, THERMISTOR, ROHS COMPLIANT	2252	300
701104	44004RC-BP (100 PCS), THERM, ROHS	2252	300

* For quantities less than Minimum Order Quantity – contact distribution

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