

44003RC Precision Epoxy NTC Thermistor



1000 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

- 1000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

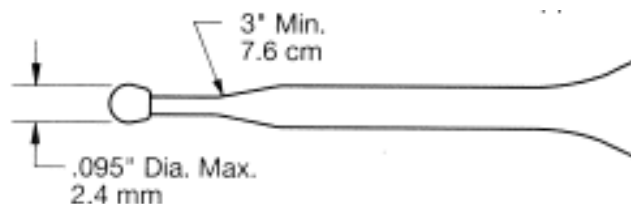
APPLICATIONS

- 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	1000
tolerance 0°C to 50°C	°C	± 0.2
Beta Value 25/85	K	3312
Tolerance on Beta Value	%	1.0
Time response in air	Seconds	< 10
Dissipation Constant in air	mW/°C	1
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

MECHANICAL DETAILS



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RESISTANCE VS. TEMPERATURE TABLE

Temp °C	KΩ	Temp °C	KΩ	Temp °C	KΩ	Temp °C	KΩ
-80	278.800	-35	14.860	10	1.7850	55	0.3632
-79	258.100	-34	14.070	11	1.7140	56	0.3522
-78	239.100	-33	13.330	12	1.6470	57	0.3416
-77	221.700	-32	12.630	13	1.5820	58	0.3313
-76	205.600	-31	11.970	14	1.5210	59	0.3215
-75	190.800	-30	11.350	15	1.4620	60	0.3119
-74	177.200	-29	10.770	16	1.4060	61	0.3027
-73	164.700	-28	10.220	17	1.3530	62	0.2939
-72	153.100	-27	9.705	18	1.3020	63	0.2853
-71	142.500	-26	9.218	19	1.2530	64	0.2770
-70	132.600	-25	8.758	20	1.2060	65	0.2690
-69	123.500	-24	8.323	21	1.1610	66	0.2613
-68	115.100	-23	7.914	22	1.1180	67	0.2539
-67	107.300	-22	7.527	23	1.0770	68	0.2467
-66	100.100	-21	7.161	24	1.0380	69	0.2397
-65	93.480	-20	6.815	25	1.0000	70	0.2330
-64	87.300	-19	6.489	26	0.9639	71	0.2265
-63	81.580	-18	6.180	27	0.9294	72	0.2202
-62	76.280	-17	5.887	28	0.8963	73	0.2141
-61	71.350	-16	5.611	29	0.8645	74	0.2083
-60	66.780	-15	5.349	30	0.8340	75	0.2026
-59	62.530	-14	5.101	31	0.8048	76	0.1971
-58	58.590	-13	4.866	32	0.7768	77	0.1918
-57	54.920	-12	4.643	33	0.7499	78	0.1867
-56	51.500	-11	4.432	34	0.7241	79	0.1817
-55	48.320	-10	4.232	35	0.6994	80	0.1769
-54	45.360	-9	4.042	36	0.6756	81	0.1722
-53	42.600	-8	3.862	37	0.6527	82	0.1677
-52	40.030	-7	3.691	38	0.6308	83	0.1633
-51	37.630	-6	3.529	39	0.6097	84	0.1591
-50	35.390	-5	3.374	40	0.5895	85	0.1549
-49	33.300	-4	3.228	41	0.5700	86	0.1510
-48	31.350	-3	3.088	42	0.5512	87	0.1471
-47	29.520	-2	2.956	43	0.5332	88	0.1434
-46	27.810	-1	2.830	44	0.5159	89	0.1398
-45	26.220	0	2.710	45	0.4992	90	0.1362
-44	24.720	1	2.596	46	0.4832	91	0.1328
-43	23.320	2	2.487	47	0.4678	92	0.1295
-42	22.010	3	2.384	48	0.4529	93	0.1263
-41	20.790	4	2.286	49	0.4386	94	0.1232
-40	19.640	5	2.192	50	0.4248	95	0.1202
-39	18.560	6	2.102	51	0.4116	96	0.1173
-38	17.540	7	2.017	52	0.3988	97	0.1144
-37	16.590	8	1.936	53	0.3865	98	0.1117
-36	15.700	9	1.859	54	0.3747	99	0.1090
						100	0.1064

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701003	44003RC,THERMISTOR,ROHS COMPLIANT	1000	\$2000
701103	44003RC-BP (100 PCS),THERMISTOR,ROHS	1000	\$2000

* For quantities less than Minimum Order Quantity – contact distribution

NORTH AMERICA

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