

# 44016RC Precision Epoxy NTC Thermistor



- 10,000 ohm Resistance @ 25°C
- Interchangeable  $\pm 0.2^\circ\text{C}$ ,  $0^\circ\text{C}$  to  $70^\circ\text{C}$ ,
- 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

- 10,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

## APPLICATIONS

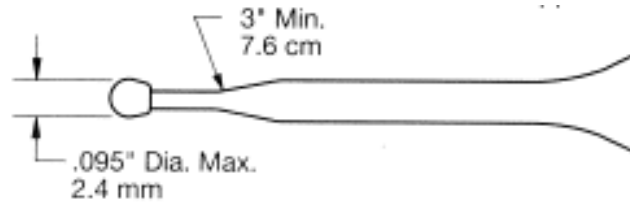
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

## PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	10,000
tolerance $0^\circ\text{C}$ to $70^\circ\text{C}$	$^\circ\text{C}$	$\pm 0.2$
Beta Value 25/85	K	3978
Tolerance on Beta Value	%	0.4
Time response in air	Seconds	< 10
Dissipation Constant in air	mW/ $^\circ\text{C}$	1
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

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## MECHANICAL DETAILS



## RESISTANCE V TEMPERATURE TABLE

Temp °C	K- Ohms	Temp °C	K- Ohms	Temp °C	K- Ohms	Temp °C	K- Ohms	Temp °C	K- Ohms
-55	964.000	-15	72.960	25	10.000	65	2.0830	105	0.5875
-54	895.600	-14	69.010	26	9.574	66	2.0110	106	0.5710
-53	832.100	-13	65.280	27	9.165	67	1.9420	107	0.5551
-52	774.000	-12	61.770	28	8.779	68	1.8760	108	0.5400
-51	720.200	-11	58.440	29	8.410	69	1.8130	109	0.5249
-50	670.500	-10	55.330	30	8.060	70	1.7520	110	0.5107
-49	624.300	-9	52.440	31	7.722	71	1.6930	111	0.4964
-48	581.700	-8	49.690	32	7.402	72	1.6360	112	0.4831
-47	542.200	-7	47.070	33	7.100	73	1.5820	113	0.4698
-46	505.800	-6	44.630	34	6.807	74	1.5300	114	0.4574
-45	472.000	-5	42.340	35	6.532	75	1.4790	115	0.4449
-44	440.800	-4	40.170	36	6.270	76	1.4310	116	0.4334
-43	411.700	-3	38.130	37	6.017	77	1.3850	117	0.4218
-42	384.800	-2	36.190	38	5.777	78	1.3400	118	0.4107
-41	359.800	-1	34.370	39	5.546	79	1.2970	119	0.3996
-40	336.500	0	32.660	40	5.329	80	1.2550	120	0.3894
-39	315.000	1	31.030	41	5.116	81	1.2150	121	0.3792
-38	294.900	2	29.500	42	4.916	82	1.1770	122	0.3694
-37	276.200	3	28.060	43	4.725	83	1.1400	123	0.3601
-36	258.900	4	26.690	44	4.543	84	1.1040	124	0.3508
-35	242.700	5	25.400	45	4.369	85	1.0700	125	0.3419
-34	227.700	6	24.170	46	4.202	86	1.0360	126	0.3330
-33	213.600	7	23.020	47	4.042	87	1.0040	127	0.3246
-32	200.600	8	21.920	48	3.889	88	0.9738	128	0.3166
-31	188.400	9	20.880	49	3.743	89	0.9441	129	0.3086
-30	177.000	10	19.900	50	3.603	90	0.9152	130	0.3011
-29	166.400	11	18.970	51	3.469	91	0.8877	131	0.2935
-28	156.500	12	18.090	52	3.340	92	0.8610	132	0.2860
-27	147.200	13	17.260	53	3.217	93	0.8353	133	0.2793
-26	138.500	14	16.470	54	3.099	94	0.8104	134	0.2722
-25	130.500	15	15.710	55	2.986	95	0.7864	135	0.2655
-24	122.900	16	15.000	56	2.878	96	0.7633	136	0.2593
-23	115.800	17	14.330	57	2.774	97	0.7411	137	0.2531
-22	109.100	18	13.680	58	2.675	98	0.7194	138	0.2469
-21	102.900	19	13.070	59	2.580	99	0.6985	139	0.2411
-20	97.110	20	12.500	60	2.488	100	0.6785	140	0.2353
-19	91.650	21	11.940	61	2.400	101	0.6590	141	0.2296
-18	86.500	22	11.420	62	2.316	102	0.6403	142	0.2242
-17	81.710	23	10.920	63	2.235	103	0.6221	143	0.2189
-16	77.220	24	10.450	64	2.157	104	0.6044	144	0.2140
								145	0.2087
								146	0.2038
								147	0.1994
								148	0.1945
								149	0.1901
								150	0.1859

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## ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
701016	44016RC,THERM,ROHS COMPLIANT	10,000	\$2000
701116	44016RC-BP (100 PCS),THERM,ROHS	10,000	\$2000

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

### NORTH AMERICA

Measurement Specialties, Inc.  
910 Turnpike Road  
Shrewsbury, MA 01545  
Tel: 1-508-842-0516  
Fax: 1-508-842-0342  
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An Cyber Park, Fu Tian District,  
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Fax: +86 (0) 755 833 06797  
Sales: [TemperatureAsia.  
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