

44036RC Precision Epoxy NTC Thermistor



- 10,000 ohm Resistance @ 25°C
- Interchangeable $\pm 0.1^\circ\text{C}$, 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

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

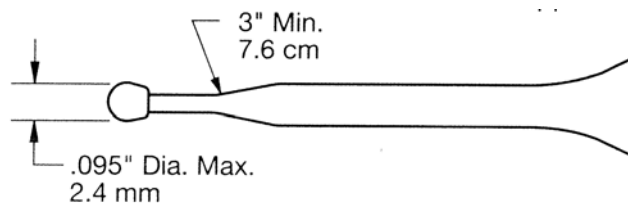
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	10,000
tolerance 0°C to 70°C	$^\circ\text{C}$	± 0.1
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

44036RC Precision Epoxy NTC Thermistor

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

44036RC Precision Epoxy NTC Thermistor

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701036	44036RC,THERM,ROHS COMPLIANT	10,000	300
701136	44036RC-BP (100 PCS),THERM,ROHS	10,000	300

* 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

Sales email:

temperature.sales.amer@meas-spec.com

EUROPE

Measurement Specialties, Inc
Ballybrit Business Park
Galway Ireland
Tel: +353-91-753238
Fax: +353-91-770789

Sales email:

temperature.sales.emea@meas-spec.com

ASIA

Measurement Specialties (China) Ltd.
No. 26 Langshan Road
Shenzhen High-Tech Park (North)
Nanshan District, Shenzhen 51807
China
Tel: +86 (0) 755 33305088
Fax: +86 (0) 755 33305099

Sales email:

temperature.sales.asia@meas-spec.com

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.