

# 44037RC Precision Epoxy NTC Thermistor



- 6000 ohm Resistance @ 25°C
- Interchangeable  $\pm 0.1^\circ\text{C}$ ,  $0^\circ\text{C}$  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

- 6000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

## APPLICATIONS

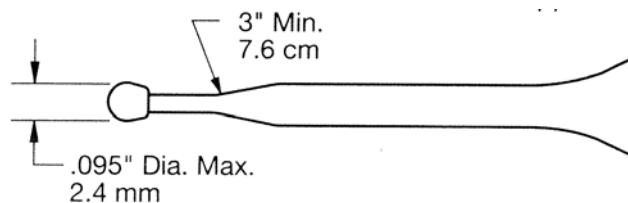
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

## PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	6000
tolerance $0^\circ\text{C}$ to $70^\circ\text{C}$	$^\circ\text{C}$	$\pm 0.1$
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

# 44037RC 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	578.400	-15	43.770	25	6.000	65	1.2500	105	0.3525
-54	537.400	-14	41.400	26	5.744	66	1.2070	106	0.3426
-53	499.300	-13	39.170	27	5.499	67	1.1650	107	0.3330
-52	464.400	-12	37.060	28	5.267	68	1.1260	108	0.3240
-51	432.100	-11	35.060	29	5.046	69	1.0880	109	0.3149
-50	402.300	-10	33.200	30	4.836	70	1.0510	110	0.3064
-49	374.600	-9	31.470	31	4.633	71	1.0160	111	0.2979
-48	349.000	-8	29.810	32	4.441	72	0.9818	112	0.2899
-47	325.300	-7	28.240	33	4.260	73	0.9490	113	0.2819
-46	303.500	-6	26.780	34	4.084	74	0.9179	114	0.2744
-45	283.200	-5	25.400	35	3.919	75	0.8875	115	0.2670
-44	264.500	-4	24.100	36	3.762	76	0.8587	116	0.2600
-43	247.000	-3	22.880	37	3.610	77	0.8307	117	0.2531
-42	230.900	-2	21.720	38	3.466	78	0.8038	118	0.2464
-41	215.900	-1	20.620	39	3.328	79	0.7780	119	0.2398
-40	201.900	0	19.600	40	3.197	80	0.7532	120	0.2337
-39	189.000	1	18.620	41	3.069	81	0.7292	121	0.2275
-38	176.900	2	17.700	42	2.949	82	0.7060	122	0.2217
-37	165.700	3	16.840	43	2.835	83	0.6839	123	0.2161
-36	155.300	4	16.020	44	2.726	84	0.6623	124	0.2105
-35	145.600	5	15.240	45	2.621	85	0.6418	125	0.2052
-34	136.600	6	14.500	46	2.521	86	0.6218	126	0.1998
-33	128.200	7	13.810	47	2.425	87	0.6027	127	0.1948
-32	120.300	8	13.150	48	2.333	88	0.5843	128	0.1900
-31	113.000	9	12.530	49	2.246	89	0.5664	129	0.1852
-30	106.200	10	11.940	50	2.162	90	0.5491	130	0.1806
-29	99.830	11	11.380	51	2.081	91	0.5326	131	0.1761
-28	93.890	12	10.850	52	2.004	92	0.5166	132	0.1716
-27	88.320	13	10.350	53	1.930	93	0.5012	133	0.1676
-26	83.130	14	9.879	54	1.859	94	0.4862	134	0.1633
-25	78.280	15	9.429	55	1.792	95	0.4718	135	0.1593
-24	73.720	16	9.000	56	1.727	96	0.4580	136	0.1556
-23	69.460	17	8.595	57	1.665	97	0.4447	137	0.1519
-22	65.490	18	8.209	58	1.605	98	0.4316	138	0.1481
-21	61.760	19	7.844	59	1.548	99	0.4191	139	0.1447
-20	58.270	20	7.497	60	1.493	100	0.4071	140	0.1412
-19	54.990	21	7.167	61	1.440	101	0.3954	141	0.1377
-18	51.900	22	6.853	62	1.389	102	0.3842	142	0.1345
-17	49.020	23	6.554	63	1.341	103	0.3733	143	0.1313
-16	46.330	24	6.272	64	1.294	104	0.3626	144	0.1284
								145	0.1252
								146	0.1223
								147	0.1196
								148	0.1167
								149	0.1140
								150	0.1115

# 44037RC Precision Epoxy NTC Thermistor

## ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
701037	44037RC,THERM,ROHS COMPLIANT	6,000	300
701137	44037RC-BP (100 PCS),THERM,ROHS	6,000	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](mailto: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](mailto: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](mailto: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.