

# 44011RC Precision Epoxy NTC Thermistor



- 100,000 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

- 100,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

## APPLICATIONS

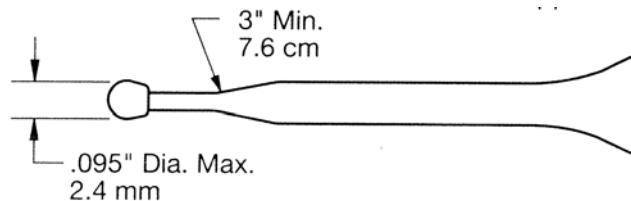
- High-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

## PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	100,000
tolerance $0^\circ\text{C}$ to $70^\circ\text{C}$	$^\circ\text{C}$	$\pm 0.2$
Beta Value 25/85	K	4144
Tolerance on Beta Value	%	0.8
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

# 44011RC 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
-40	3356	0	333.1	40	52.19	80	11.54	120	3.307
-39	3147	1	316.4	41	50.07	81	11.15	121	3.214
-38	2951	2	300.6	42	48.04	82	10.78	122	3.124
-37	2769	3	285.7	43	46.11	83	10.42	123	3.038
-36	2599	4	271.6	44	44.26	84	10.08	124	2.953
-35	2440	5	258.3	45	42.50	85	9.744	125	2.872
-34	2292	6	245.7	46	40.81	86	9.424	126	2.793
-33	2154	7	233.8	47	39.20	87	9.117	127	2.717
-32	2025	8	222.5	48	37.66	88	8.821	128	2.643
-31	1904	9	211.9	49	36.19	89	8.536	129	2.571
-30	1791	10	201.7	50	34.78	90	8.261	130	2.501
-29	1685	11	192.2	51	33.44	91	7.996	131	2.434
-28	1586	12	183.1	52	32.15	92	7.741	132	2.369
-27	1494	13	174.5	53	30.92	93	7.496	133	2.306
-26	1407	14	166.3	54	29.74	94	7.259	134	2.244
-25	1326	15	158.6	55	28.61	95	7.030	135	2.185
-24	1250	16	151.3	56	27.53	96	6.810	136	2.128
-23	1178	17	144.3	57	26.50	97	6.598	137	2.072
-22	1111	18	137.7	58	25.50	98	6.393	138	2.018
-21	1049	19	131.4	59	24.56	99	6.195	139	1.965
-20	989.8	20	125.5	60	23.65	100	6.005	140	1.914
-19	934.6	21	119.8	61	22.77	101	5.821	141	1.865
-18	882.7	22	114.5	62	21.94	102	5.643	142	1.817
-17	834.0	23	109.4	63	21.14	103	5.472	143	1.770
-16	788.2	24	104.5	64	20.37	104	5.307	144	1.725
-15	745.2	25	100.0	65	19.63	105	5.147	145	1.681
-14	704.7	26	95.51	66	18.93	106	4.993	146	1.639
-13	666.7	27	91.34	67	18.25	107	4.844	147	1.598
-12	630.9	28	87.38	68	17.60	108	4.700	148	1.558
-11	597.2	29	83.60	69	16.97	109	4.561	149	1.519
-10	565.5	30	80.00	70	16.37	110	4.427	150	1.481
-9	535.6	31	76.58	71	15.80	111	4.297		
-8	507.5	32	73.32	72	15.25	112	4.172		
-7	481.0	33	70.22	73	14.72	113	4.051		
-6	456.0	34	67.26	74	14.21	114	3.933		
-5	432.4	35	64.44	75	13.72	115	3.820		
-4	410.2	36	61.75	76	13.25	116	3.711		
-3	389.2	37	59.19	77	12.79	117	3.605		
-2	369.4	38	56.75	78	12.36	118	3.502		
-1	350.7	39	54.42	79	11.94	119	3.403		

# 44011RC Precision Epoxy NTC Thermistor

## ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
701011	44011RC,THERMISTOR,ROHS COMPLIANT	100,000	300
701111	44011RC-BP (100 PCS),THERMISTOR,ROHS	100,000	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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Measurement Specialties:](#)

[44011RC](#)