

44007RC Precision Epoxy NTC Thermistor



- 5000 ohm Resistance @ 25°C
- Interchangeable $\pm 0.2^{\circ}\text{C}$, 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

- 5000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

APPLICATIONS

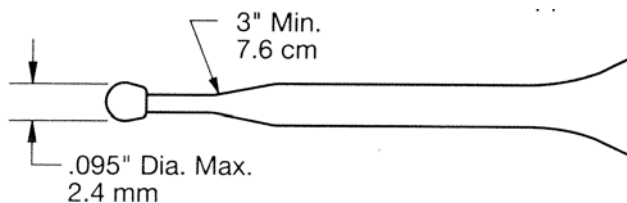
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	5000
Tolerance 0°C to 70°C	$^{\circ}\text{C}$	± 0.2
Beta Value 25/85	K	3976
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

44007RC 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	482.200	-15	36.490	25	5.000	65	1.0410	105	0.2940
-54	447.900	-14	34.500	26	4.787	66	1.0060	106	0.2857
-53	416.300	-13	32.630	27	4.583	67	0.9711	107	0.2778
-52	387.100	-12	30.880	28	4.389	68	0.9380	108	0.2701
-51	360.200	-11	29.230	29	4.204	69	0.9063	109	0.2626
-50	335.300	-10	27.670	30	4.029	70	0.8757	110	0.2554
-49	312.300	-9	26.210	31	3.861	71	0.8464	111	0.2484
-48	291.000	-8	24.830	32	3.702	72	0.8183	112	0.2416
-47	271.300	-7	23.540	33	3.549	73	0.7912	113	0.2351
-46	253.000	-6	22.320	34	3.404	74	0.7651	114	0.2287
-45	236.200	-5	21.170	35	3.266	75	0.7400	115	0.2226
-44	220.500	-4	20.080	36	3.134	76	0.7159	116	0.2167
-43	205.900	-3	19.060	37	3.008	77	0.6927	117	0.2109
-42	192.500	-2	18.100	38	2.888	78	0.6703	118	0.2053
-41	180.000	-1	17.190	39	2.773	79	0.6488	119	0.1999
-40	168.300	0	16.330	40	2.663	80	0.6281	120	0.1947
-39	157.500	1	15.520	41	2.559	81	0.6082	121	0.1896
-38	147.500	2	14.750	42	2.459	82	0.5889	122	0.1847
-37	138.200	3	14.030	43	2.363	83	0.5704	123	0.1799
-36	129.500	4	13.340	44	2.272	84	0.5526	124	0.1753
-35	121.400	5	12.700	45	2.184	85	0.5354	125	0.1708
-34	113.900	6	12.090	46	2.101	86	0.5188	126	0.1664
-33	106.900	7	11.510	47	2.021	87	0.5028	127	0.1622
-32	100.300	8	10.960	48	1.944	88	0.4874	128	0.1581
-31	94.220	9	10.440	49	1.871	89	0.4726	129	0.1541
-30	88.530	10	9.951	50	1.801	90	0.4582	130	0.1503
-29	83.220	11	9.486	51	1.734	91	0.4444	131	0.1465
-28	78.260	12	9.046	52	1.670	92	0.4310	132	0.1429
-27	73.620	13	8.628	53	1.608	93	0.4182	133	0.1394
-26	69.290	14	8.232	54	1.549	94	0.4057	134	0.1360
-25	65.240	15	7.857	55	1.493	95	0.3937	135	0.1326
-24	61.450	16	7.500	56	1.439	96	0.3821	136	0.1294
-23	57.900	17	7.162	57	1.387	97	0.3709	137	0.1263
-22	54.580	18	6.841	58	1.337	98	0.3601	138	0.1232
-21	51.470	19	6.536	59	1.290	99	0.3497	139	0.1203
-20	48.560	20	6.247	60	1.244	100	0.3396	140	0.1174
-19	45.830	21	5.972	61	1.200	101	0.3298	141	0.1146
-18	43.270	22	5.710	62	1.158	102	0.3204	142	0.1119
-17	40.860	23	5.462	63	1.117	103	0.3113	143	0.1092
-16	38.610	24	5.225	64	1.079	104	0.3025	144	0.1067
								145	0.1042
								146	0.1018
								147	0.0994
								148	0.0971
								149	0.0949
								150	0.0927

44007RC Precision Epoxy NTC Thermistor

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701007	44007RC,THERMISTOR,ROHS COMPLIANT	5000	300
701107	44007RC-BP (100 PCS),THERMISTOR,ROHS	5000	300

* For quantities less than Minimum Order Quantity – contact distribution

t

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.

Mouser Electronics

Authorized Distributor

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

[TE Connectivity:](#)

[701007](#)