

44033RC Precision Epoxy NTC Thermistor



- 2252 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

- 2252 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

APPLICATIONS

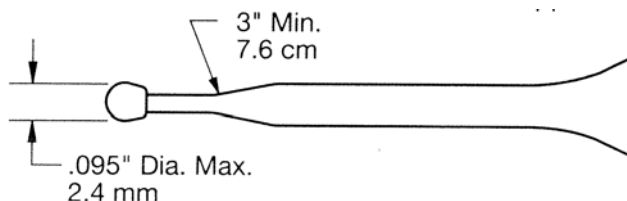
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	2252
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

44033RC 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	217.100	-15	16.430	25	2.252	65	0.4690	105	0.1323
-54	201.700	-14	15.540	26	2.156	66	0.4529	106	0.1286
-53	187.400	-13	14.700	27	2.064	67	0.4374	107	0.1250
-52	174.300	-12	13.910	28	1.977	68	0.4225	108	0.1216
-51	162.200	-11	13.160	29	1.894	69	0.4082	109	0.1182
-50	151.000	-10	12.460	30	1.815	70	0.3945	110	0.1150
-49	140.600	-9	11.810	31	1.739	71	0.3812	111	0.1118
-48	131.000	-8	11.190	32	1.667	72	0.3685	112	0.1088
-47	122.100	-7	10.600	33	1.599	73	0.3562	113	0.1058
-46	113.900	-6	10.050	34	1.533	74	0.3445	114	0.1030
-45	106.300	-5	9.534	35	1.471	75	0.3331	115	0.1002
-44	99.260	-4	9.046	36	1.412	76	0.3223	116	0.0976
-43	92.720	-3	8.586	37	1.355	77	0.3118	117	0.0950
-42	86.650	-2	8.151	38	1.301	78	0.3017	118	0.0925
-41	81.020	-1	7.741	39	1.249	79	0.2920	119	0.0900
-40	75.790	0	7.355	40	1.200	80	0.2827	120	0.0877
-39	70.930	1	6.989	41	1.152	81	0.2737	121	0.0854
-38	66.410	2	6.644	42	1.107	82	0.2650	122	0.0832
-37	62.210	3	6.319	43	1.064	83	0.2567	123	0.0811
-36	58.300	4	6.011	44	1.023	84	0.2486	124	0.0790
-35	54.660	5	5.719	45	0.9838	85	0.2409	125	0.0770
-34	51.270	6	5.444	46	0.9462	86	0.2334	126	0.0750
-33	48.110	7	5.183	47	0.9102	87	0.2262	127	0.0731
-32	45.170	8	4.937	48	0.8758	88	0.2193	128	0.0713
-31	42.420	9	4.703	49	0.8428	89	0.2126	129	0.0695
-30	39.860	10	4.482	50	0.8113	90	0.2061	130	0.0678
-29	37.470	11	4.273	51	0.7811	91	0.1999	131	0.0661
-28	35.240	12	4.074	52	0.7522	92	0.1939	132	0.0644
-27	33.150	13	3.886	53	0.7245	93	0.1881	133	0.0629
-26	31.200	14	3.708	54	0.6979	94	0.1825	134	0.0613
-25	29.380	15	3.539	55	0.6725	95	0.1771	135	0.0598
-24	27.670	16	3.378	56	0.6481	96	0.1719	136	0.0584
-23	26.070	17	3.226	57	0.6248	97	0.1669	137	0.0570
-22	24.580	18	3.081	58	0.6024	98	0.1620	138	0.0556
-21	23.180	19	2.944	59	0.5809	99	0.1573	139	0.0543
-20	21.870	20	2.814	60	0.5603	100	0.1528	140	0.0530
-19	20.640	21	2.690	61	0.5405	101	0.1484	141	0.0517
-18	19.480	22	2.572	62	0.5215	102	0.1442	142	0.0505
-17	18.400	23	2.460	63	0.5033	103	0.1401	143	0.0493
-16	17.390	24	2.354	64	0.4858	104	0.1361	144	0.0482
								145	0.0470
								146	0.0459
								147	0.0449
								148	0.0438
								149	0.0428
								150	0.0418

44033RC Precision Epoxy NTC Thermistor

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701033	44033RC,THERMISTOR,ROHS COMPLIANT	2252	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.