

44031RC 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

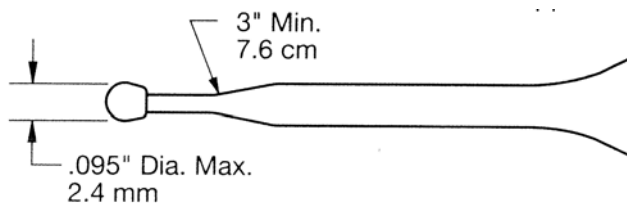
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

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

44031RC 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	607.800	-15	61.020	25	10.000	65	2.3390	105	0.7126
-54	569.600	-14	58.010	26	9.605	66	2.2640	106	0.6936
-53	534.100	-13	55.170	27	9.227	67	2.1910	107	0.6753
-52	501.000	-12	52.480	28	8.867	68	2.1220	108	0.6575
-51	470.100	-11	49.940	29	8.523	69	2.0550	109	0.6403
-50	441.300	-10	47.540	30	8.194	70	1.9900	110	0.6235
-49	414.500	-9	45.270	31	7.880	71	1.9280	111	0.6073
-48	389.400	-8	43.110	32	7.579	72	1.8680	112	0.5916
-47	366.000	-7	41.070	33	7.291	73	1.8100	113	0.5764
-46	344.100	-6	39.140	34	7.016	74	1.7540	114	0.5616
-45	323.700	-5	37.310	35	6.752	75	1.7000	115	0.5473
-44	304.600	-4	35.570	36	6.500	76	1.6480	116	0.5334
-43	286.700	-3	33.930	37	6.258	77	1.5980	117	0.5199
-42	270.000	-2	32.370	38	6.026	78	1.5490	118	0.5068
-41	254.400	-1	30.890	39	5.805	79	1.5030	119	0.4941
-40	239.800	0	29.490	40	5.592	80	1.4580	120	0.4818
-39	226.000	1	28.150	41	5.389	81	1.4140	121	0.4698
-38	213.200	2	26.890	42	5.193	82	1.3720	122	0.4582
-37	201.100	3	25.690	43	5.006	83	1.3320	123	0.4469
-36	189.800	4	24.550	44	4.827	84	1.2930	124	0.4359
-35	179.200	5	23.460	45	4.655	85	1.2550	125	0.4253
-34	169.300	6	22.430	46	4.489	86	1.2180	126	0.4149
-33	160.000	7	21.450	47	4.331	87	1.1830	127	0.4049
-32	151.200	8	20.520	48	4.179	88	1.1490	128	0.3951
-31	143.000	9	19.630	49	4.033	89	1.1160	129	0.3856
-30	135.200	10	18.790	50	3.893	90	1.0840	130	0.3764
-29	127.900	11	17.980	51	3.758	91	1.0530	131	0.3674
-28	121.100	12	17.220	52	3.629	92	1.0230	132	0.3587
-27	114.600	13	16.490	53	3.504	93	0.9942	133	0.3503
-26	108.600	14	15.790	54	3.385	94	0.9663	134	0.3420
-25	102.900	15	15.130	55	3.270	95	0.9393	135	0.3340
-24	97.490	16	14.500	56	3.160	96	0.9132	136	0.3263
-23	92.430	17	13.900	57	3.054	97	0.8879	137	0.3187
-22	87.660	18	13.330	58	2.952	98	0.8634	138	0.3113
-21	83.160	19	12.790	59	2.854	99	0.8397	139	0.3042
-20	78.910	20	12.260	60	2.760	100	0.8168	140	0.2972
-19	74.910	21	11.770	61	2.669	101	0.7946	141	0.2904
-18	71.130	22	11.290	62	2.582	102	0.7731	142	0.2838
-17	67.570	23	10.840	63	2.497	103	0.7523	143	0.2774
-16	64.200	24	10.410	64	2.417	104	0.7321	144	0.2712
								145	0.2651
								146	0.2592
								147	0.2534
								148	0.2478
								149	0.2423
								150	0.2370

44031RC Precision Epoxy NTC Thermistor

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701031	44031RC,THERMISTOR,ROHS COMPLIANT	10,000	300
701131	44031RC-BP (100 PCS),THERMISTOR,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.