

44005RC Precision Epoxy NTC Thermistor



- 3000 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

- 3000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

APPLICATIONS

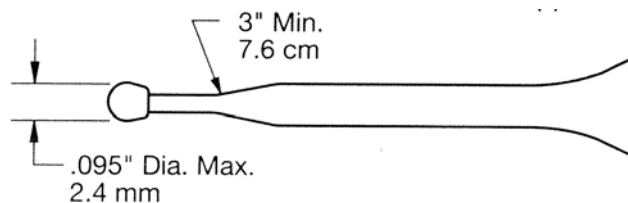
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	3000
Tolerance 0°C to 70°C	$^\circ\text{C}$	± 0.2
Beta Value 25/85	K	3978
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

44005RC 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	289.200	-15	21.890	25	3.000	65	0.6247	105	0.1764
-54	268.600	-14	20.700	26	2.872	66	0.6033	106	0.1714
-53	249.700	-13	19.580	27	2.750	67	0.5826	107	0.1667
-52	232.200	-12	18.520	28	2.633	68	0.5628	108	0.1620
-51	216.000	-11	17.530	29	2.523	69	0.5437	109	0.1576
-50	201.100	-10	16.600	30	2.417	70	0.5254	110	0.1532
-49	187.300	-9	15.720	31	2.317	71	0.5078	111	0.1490
-48	174.500	-8	14.900	32	2.221	72	0.4909	112	0.1450
-47	162.700	-7	14.120	33	2.130	73	0.4747	113	0.1411
-46	151.700	-6	13.390	34	2.042	74	0.4590	114	0.1372
-45	141.600	-5	12.700	35	1.959	75	0.4440	115	0.1336
-44	132.200	-4	12.050	36	1.880	76	0.4295	116	0.1300
-43	123.500	-3	11.440	37	1.805	77	0.4156	117	0.1265
-42	115.400	-2	10.860	38	1.733	78	0.4022	118	0.1232
-41	107.900	-1	10.310	39	1.664	79	0.3893	119	0.1199
-40	101.000	0	9.796	40	1.598	80	0.3769	120	0.1168
-39	94.480	1	9.310	41	1.535	81	0.3649	121	0.1138
-38	88.460	2	8.851	42	1.475	82	0.3534	122	0.1108
-37	82.870	3	8.417	43	1.418	83	0.3422	123	0.1079
-36	77.660	4	8.006	44	1.363	84	0.3315	124	0.1052
-35	72.810	5	7.618	45	1.310	85	0.3212	125	0.1025
-34	68.300	6	7.252	46	1.260	86	0.3113	126	0.0999
-33	64.090	7	6.905	47	1.212	87	0.3017	127	0.0973
-32	60.170	8	6.576	48	1.167	88	0.2924	128	0.0949
-31	56.510	9	6.265	49	1.123	89	0.2835	129	0.0925
-30	53.100	10	5.971	50	1.081	90	0.2749	130	0.0902
-29	49.910	11	5.692	51	1.040	91	0.2666	131	0.0879
-28	46.940	12	5.427	52	1.002	92	0.2586	132	0.0857
-27	44.160	13	5.177	53	0.9650	93	0.2509	133	0.0836
-26	41.560	14	4.939	54	0.9296	94	0.2434	134	0.0816
-25	39.130	15	4.714	55	0.8958	95	0.2362	135	0.0796
-24	36.860	16	4.500	56	0.8633	96	0.2293	136	0.0776
-23	34.730	17	4.297	57	0.8322	97	0.2226	137	0.0758
-22	32.740	18	4.105	58	0.8023	98	0.2161	138	0.0739
-21	30.870	19	3.922	59	0.7737	99	0.2098	139	0.0722
-20	29.130	20	3.748	60	0.7463	100	0.2038	140	0.0704
-19	27.490	21	3.583	61	0.7199	101	0.1979	141	0.0688
-18	25.950	22	3.426	62	0.6947	102	0.1922	142	0.0671
-17	24.510	23	3.277	63	0.6704	103	0.1868	143	0.0655
-16	23.160	24	3.135	64	0.6471	104	0.1815	144	0.0640
								145	0.0625
								146	0.0611
								147	0.0596
								148	0.0583
								149	0.0569
								150	0.0556

44005RC Precision Epoxy NTC Thermistor

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701005	44005RC,THERMISTOR,ROHS COMPLIANT	3000	300
701105	44005RC-BP (100 PCS),THERMISTOR,ROHS	3000	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.