



MODEL 44032

Precision Epoxy NTC Thermistor

- 30,000 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

FEATURES

- 30,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

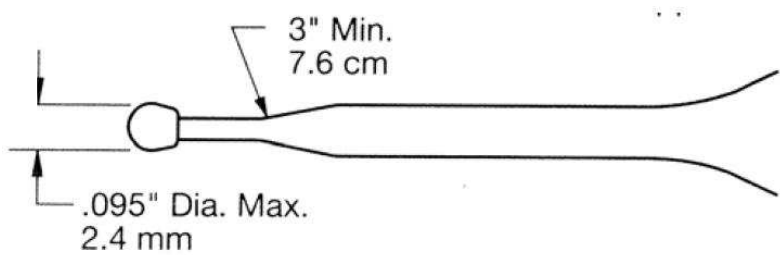
APPLICATIONS

- 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	30,000
Tolerance 0°C to 70°C	°C	± 0.1
Beta Value 25/85	K	3943
Tolerance on Beta Value	%	0.4
Time response in air	Seconds	< 10
Dissipation Constant in air	mW/°C	1
Insulation Resistance (Min. of 100 Mohms for 1 sec.)	Volts	500

MECHANICAL DETAILS



TYPICAL PERFORMANCE CURVES (RESISTANCE OF INDIVIDUAL THERMISTORS)

Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms
-40	884.6	0	94.98	40	16.15	80	3.843	120	1.176
-39	830.9	1	90.41	41	15.52	81	3.720	121	1.145
-38	780.8	2	86.09	42	14.92	82	3.602	122	1.114
-37	733.9	3	81.99	43	14.35	83	3.489	123	1.085
-36	690.2	4	78.11	44	13.80	84	3.379	124	1.057
-35	649.3	5	74.44	45	13.28	85	3.273	125	1.029
-34	611.0	6	70.96	46	12.77	86	3.172	126	1.002
-33	575.2	7	67.66	47	12.29	87	3.073	127	0.9763
-32	541.7	8	64.53	48	11.83	88	2.979	128	0.9511
-31	510.4	9	61.56	49	11.39	89	2.887	129	0.9267
-30	481.0	10	58.75	50	10.97	90	2.799	130	0.9030
-29	453.5	11	56.07	51	10.57	91	2.714	131	0.8800
-28	427.7	12	53.54	52	10.18	92	2.632	132	0.8577
-27	403.5	13	51.13	53	9.807	93	2.552	133	0.8361
-26	380.9	14	48.84	54	9.450	94	2.476	134	0.8150
-25	359.6	15	46.67	55	9.109	95	2.402	135	0.7946
-24	339.6	16	44.60	56	8.781	96	2.331	136	0.7748
-23	320.9	17	42.64	57	8.467	97	2.262	137	0.7556
-22	303.3	18	40.77	58	8.166	98	2.195	138	0.7369
-21	286.7	19	38.99	59	7.876	99	2.131	139	0.7188
-20	271.2	20	37.30	60	7.599	100	2.069	140	0.7012
-19	256.5	21	35.70	61	7.332	101	2.009	141	0.6841
-18	242.8	22	34.17	62	7.076	102	1.950	142	0.6675
-17	229.8	23	32.71	63	6.830	103	1.894	143	0.6513
-16	217.6	24	31.32	64	6.594	104	1.840	144	0.6356
-15	206.2	25	30.00	65	6.367	105	1.788	145	0.6203
-14	195.4	26	28.74	66	6.149	106	1.737	146	0.6055
-13	185.2	27	27.54	67	5.940	107	1.688	147	0.5911
-12	175.6	28	26.40	68	5.738	108	1.640	148	0.5771
-11	166.6	29	25.31	69	5.545	109	1.594	149	0.5635
-10	158.0	30	24.27	70	5.359	110	1.550	150	0.5502
-9	150.0	31	23.28	71	5.180	111	1.507		
-8	142.4	32	22.33	72	5.007	112	1.465		
-7	135.2	33	21.43	73	4.842	113	1.425		
-6	128.5	34	20.57	74	4.682	114	1.386		
-5	122.1	35	19.74	75	4.529	115	1.348		
-4	116.0	36	18.96	76	4.381	116	1.311		
-3	110.3	37	18.21	77	4.239	117	1.276		
-2	104.9	38	17.49	78	4.102	118	1.241		
-1	99.80	39	16.80	79	3.970	119	1.208		

MODEL 44032

Precision Epoxy NTC Thermistor

ORDERING INFORMATION

Part Number	Description	Ω @25°C
701032	44032RC, THERMISTOR, ROHS COMPLIANT	30,000
701132	44032RC-BP (100 PCS), THERMISTOR, ROHS	30,000

NORTH AMERICA

Measurement Specialties, Inc.,
a TE Connectivity Company
Tel: 800-522-6752
customercare.ando@te.com

EUROPE

Measurement Specialties (Europe), Ltd.,
a TE Connectivity Company
Tel: 800-440-5100
customercare.tlse@te.com

ASIA

Measurement Specialties (China), Ltd.,
a TE Connectivity Company
Tel: 0400-820-6015
customercare.chdu@te.com

te.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties (MEAS), American Sensor Technologies (AST), TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.