



MODEL 44011

Precision Epoxy NTC Thermistor

- 100,000 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

FEATURES

- 100,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

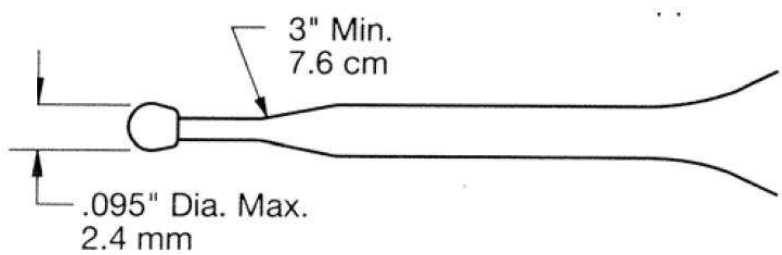
APPLICATIONS

- 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	100,000
Tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	4144
Tolerance on Beta Value	%	0.8
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	3356	0	333.1	40	52.19	80	11.54	120	3.307
-39	3147	1	316.4	41	50.07	81	11.15	121	3.214
-38	2951	2	300.6	42	48.04	82	10.78	122	3.124
-37	2769	3	285.7	43	46.11	83	10.42	123	3.038
-36	2599	4	271.6	44	44.26	84	10.08	124	2.953
-35	2440	5	258.3	45	42.50	85	9.744	125	2.872
-34	2292	6	245.7	46	40.81	86	9.424	126	2.793
-33	2154	7	233.8	47	39.20	87	9.117	127	2.717
-32	2025	8	222.5	48	37.66	88	8.821	128	2.643
-31	1904	9	211.9	49	36.19	89	8.536	129	2.571
-30	1791	10	201.7	50	34.78	90	8.261	130	2.501
-29	1685	11	192.2	51	33.44	91	7.996	131	2.434
-28	1586	12	183.1	52	32.15	92	7.741	132	2.369
-27	1494	13	174.5	53	30.92	93	7.496	133	2.306
-26	1407	14	166.3	54	29.74	94	7.259	134	2.244
-25	1326	15	158.6	55	28.61	95	7.030	135	2.185
-24	1250	16	151.3	56	27.53	96	6.810	136	2.128
-23	1178	17	144.3	57	26.50	97	6.598	137	2.072
-22	1111	18	137.7	58	25.50	98	6.393	138	2.018
-21	1049	19	131.4	59	24.56	99	6.195	139	1.965
-20	989.8	20	125.5	60	23.65	100	6.005	140	1.914
-19	934.6	21	119.8	61	22.77	101	5.821	141	1.865
-18	882.7	22	114.5	62	21.94	102	5.643	142	1.817
-17	834.0	23	109.4	63	21.14	103	5.472	143	1.770
-16	788.2	24	104.5	64	20.37	104	5.307	144	1.725
-15	745.2	25	100.0	65	19.63	105	5.147	145	1.681
-14	704.7	26	95.51	66	18.93	106	4.993	146	1.639
-13	666.7	27	91.34	67	18.25	107	4.844	147	1.598
-12	630.9	28	87.38	68	17.60	108	4.700	148	1.558
-11	597.2	29	83.60	69	16.97	109	4.561	149	1.519
-10	565.5	30	80.00	70	16.37	110	4.427	150	1.481
-9	535.6	31	76.58	71	15.80	111	4.297		
-8	507.5	32	73.32	72	15.25	112	4.172		
-7	481.0	33	70.22	73	14.72	113	4.051		
-6	456.0	34	67.26	74	14.21	114	3.933		
-5	432.4	35	64.44	75	13.72	115	3.820		
-4	410.2	36	61.75	76	13.25	116	3.711		
-3	389.2	37	59.19	77	12.79	117	3.605		
-2	369.4	38	56.75	78	12.36	118	3.502		
-1	350.7	39	54.42	79	11.94	119	3.403		

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ORDERING INFORMATION

Part Number	Description	Ω @25°C
701011	44011RC,THERMISTOR,ROHS COMPLIANT	100,000
701111	44011RC-BP (100 PCS),THERMISTOR,ROHS	100,000

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