



MODEL 44014

Precision Epoxy NTC Thermistor

- 300,000 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

- 300,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

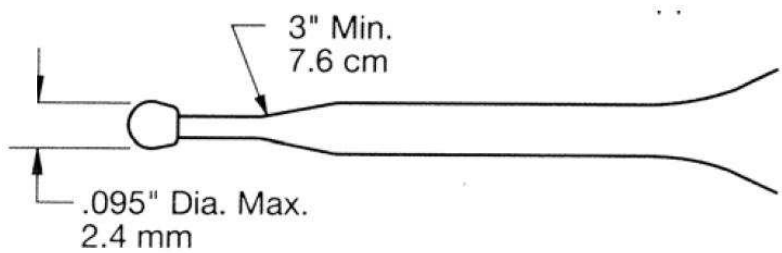
APPLICATIONS

- 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	300,000
Tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	4462
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
0	1088.0	30	236.4	60	63.70	90	20.45	120	7.594
1	1030.0	31	225.6	61	61.17	91	19.75	121	7.364
2	975.3	32	215.3	62	58.75	92	19.07	122	7.142
3	923.8	33	205.5	63	56.44	93	18.41	123	6.927
4	875.2	34	196.2	64	54.23	94	17.78	124	6.720
5	829.5	35	187.4	65	52.12	95	17.18	125	6.519
6	786.3	36	179.0	66	50.10	96	16.60	126	6.326
7	745.6	37	171.0	67	48.17	97	16.04	127	6.139
8	707.2	38	163.5	68	46.32	98	15.50	128	5.958
9	671.0	39	156.3	69	44.54	99	14.98	129	5.784
10	636.8	40	149.4	70	42.85	100	14.48	130	5.615
11	604.5	41	142.9	71	41.23	101	14.00	131	5.452
12	574.0	42	136.7	72	39.67	102	13.54	132	5.294
13	545.2	43	130.8	73	38.18	103	13.09	133	5.141
14	518.0	44	125.1	74	36.75	104	12.66	134	4.994
15	492.3	45	119.8	75	35.39	105	12.25	135	4.851
16	468.0	46	114.7	76	34.08	106	11.86	136	4.713
17	444.9	47	109.8	77	32.82	107	11.47	137	4.580
18	423.2	48	105.2	78	31.62	108	11.11	138	4.450
19	402.6	49	100.8	79	30.46	109	10.75	139	4.325
20	383.1	50	96.54	80	29.35	110	10.41	140	4.204
21	364.6	51	92.52	81	28.29	111	10.08	141	4.087
22	347.1	52	88.69	82	27.27	112	9.763	142	3.974
23	330.6	53	85.04	83	26.29	113	9.456	143	3.864
24	314.9	54	81.55	84	25.35	114	9.161	144	3.757
25	300.0	55	78.22	85	24.45	115	8.876	145	3.654
26	285.9	56	75.04	86	23.59	116	8.601	146	3.555
27	272.5	57	72.01	87	22.76	117	8.336	147	3.458
28	259.8	58	69.11	88	21.96	118	8.080	148	3.364
29	247.8	59	66.34	89	21.19	119	7.832	149	3.274
								150	3.186

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ORDERING INFORMATION

Part Number	Description	Ω @25°C
701014	44014RC,THERMISTOR,ROHS COMPLIANT	300,000
701114	44014RC-BP (100 PCS),THERMISTOR,ROHS	300,000

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