

MODEL 44037

Precision Epoxy NTC Thermistor

- 6000 ohm Resistance @ 25°C
- Interchangeable ±0.1°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

- 6,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

APPLICATIONS

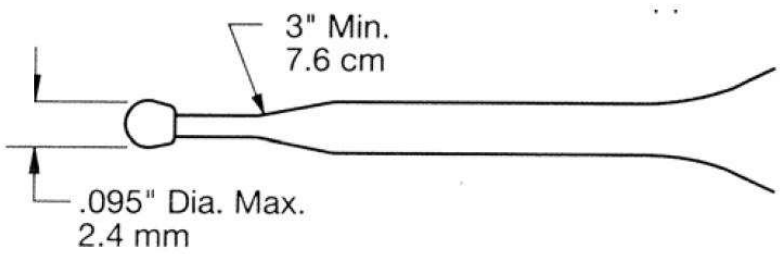
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

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PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	6,000
Tolerance 0°C to 70°C	°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/°C	1
Insulation Resistance (Min. of 100 Mohms for 1 sec.)	Volts	500

MECHANICAL DETAILS



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TYPICAL PERFORMANCE CURVES (RESISTANCE OF INDIVIDUAL THERMISTORS)

Temp °C	K-Ohms
-55	578.400
-54	537.400
-53	499.300
-52	464.400
-51	432.100
-50	402.300
-49	374.600
-48	349.000
-47	325.300
-46	303.500
-45	283.200
-44	264.500
-43	247.000
-42	230.900
-41	215.900
-40	201.900
-39	189.000
-38	176.900
-37	165.700
-36	155.300
-35	145.600
-34	136.600
-33	128.200
-32	120.300
-31	113.000
-30	106.200
-29	99.830
-28	93.890
-27	88.320
-26	83.130
-25	78.280
-24	73.720
-23	69.460
-22	65.490
-21	61.760
-20	58.270
-19	54.990
-18	51.900
-17	49.020
-16	46.330

Temp °C	K-Ohms
-15	43.770
-14	41.400
-13	39.170
-12	37.060
-11	35.060
-10	33.200
-9	31.470
-8	29.810
-7	28.240
-6	26.780
-5	25.400
-4	24.100
-3	22.880
-2	21.720
-1	20.620
0	19.600
1	18.620
2	17.700
3	16.840
4	16.020
5	15.240
6	14.500
7	13.810
8	13.150
9	12.530
10	11.940
11	11.380
12	10.850
13	10.350
14	9.879
15	9.429
16	9.000
17	8.595
18	8.209
19	7.844
20	7.497
21	7.167
22	6.853
23	6.554
24	6.272

Temp °C	K-Ohms
25	6.000
26	5.744
27	5.499
28	5.267
29	5.046
30	4.836
31	4.633
32	4.441
33	4.260
34	4.084
35	3.919
36	3.762
37	3.610
38	3.466
39	3.328
40	3.197
41	3.069
42	2.949
43	2.835
44	2.726
45	2.621
46	2.521
47	2.425
48	2.333
49	2.246
50	2.162
51	2.081
52	2.004
53	1.930
54	1.859
55	1.792
56	1.727
57	1.665
58	1.605
59	1.548
60	1.493
61	1.440
62	1.389
63	1.341
64	1.294

Temp °C	K-Ohms
65	1.2500
66	1.2070
67	1.1650
68	1.1260
69	1.0880
70	1.0510
71	1.0160
72	0.9818
73	0.9490
74	0.9179
75	0.8875
76	0.8587
77	0.8307
78	0.8038
79	0.7780
80	0.7532
81	0.7292
82	0.7060
83	0.6839
84	0.6623
85	0.6418
86	0.6218
87	0.6027
88	0.5843
89	0.5664
90	0.5491
91	0.5326
92	0.5166
93	0.5012
94	0.4862
95	0.4718
96	0.4580
97	0.4447
98	0.4316
99	0.4191
100	0.4071
101	0.3954
102	0.3842
103	0.3733
104	0.3626

Temp °C	K-Ohms
105	0.3525
106	0.3426
107	0.3330
108	0.3240
109	0.3149
110	0.3064
111	0.2979
112	0.2899
113	0.2819
114	0.2744
115	0.2670
116	0.2600
117	0.2531
118	0.2464
119	0.2398
120	0.2337
121	0.2275
122	0.2217
123	0.2161
124	0.2105
125	0.2052
126	0.1998
127	0.1948
128	0.1900
129	0.1852
130	0.1806
131	0.1761
132	0.1716
133	0.1676
134	0.1633
135	0.1593
136	0.1556
137	0.1519
138	0.1481
139	0.1447
140	0.1412
141	0.1377
142	0.1345
143	0.1313
144	0.1284
145	0.1252
146	0.1223
147	0.1196
148	0.1167
149	0.1140
150	0.1115

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ORDERING INFORMATION

Part Number	Description	Ω @25ºC
701037	44037RC,THERM,ROHS COMPLIANT	6,000
701137	44037RC-BP (100 PCS),THERM,ROHS	6,000

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