44008RC Precision Epoxy NTC Thermistor





- 30,000 ohm Resistance @ 25°C
- Interchangeable ±0.2°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

- 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

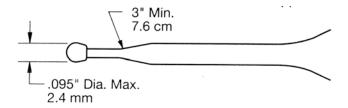
PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	30,000
tolerance 0°C to 70°C	°C	± 0.2
Beta Value 25/85	K	3943
Tolerance on Beta Value	%	0.8
Time response in air	Seconds	< 10
Dissipation Constant in air	mW/°C	1
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500



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MECHANICAL DETAILS



RESISTANCE V TEMPERATURE TABLE

Temp °C	K-Ohms
-40	884.6
-39	830.9
-38	780.8
-37	733.9
-36	690.2
-35	649.3
-34	611.0
-33	575.2
-32	541.7
-31	510.4
-30	481.0
-29	453.5
-28	427.7
-27	403.5
-26	380.9
-25	359.6
-24	339.6
-23	320.9
-22	303.3
-21	286.7
-20	271.2
-19	256.5
-18	242.8
-17	229.8
-16	217.6
-15	206.2
-14	195.4
-13	185.2
-12	175.6
-11	166.6
-10	158.0
- 9	150.0
- 8	142.4
-7	135.2
-6	128.5
-5	122.1
-4	116.0
-3	110.3
-2	104.9
-1	99.80

Temp °C	K-Ohms
0	94.98
1	90.41
2	86.09
3	81.99
4	78.11
5	74.44
6	70.96
7	67.66
8	64.53
9	61.56
10	58.75
11	56.07
12	53.54
13	51.13
14	48.84
15	46.67
16	44.60
17	42.64
18	40.77
19	38.99
20	37.30
21	35.70
22	34.17
23	32.71
24	31.32
25	30.00
26	28.74
27	27.54
28	26.40
29	25.31
30	24.27
31	23.28
32	22.33
33	21.43
34	20.57
35	19.74
36	18.96
37	18.21
38	17.49
39	16.80
-	

Temp °C	K-Ohms	I
40	16.15	
41	15.52	
42	14.92	
43	14.35	
44	13.80	
45	13.28	
46	12.77	
47	12.29	
48	11.83	
49	11.39	
50	10.97	
51	10.57	
52	10.18	
53	9.807	
54	9.450	
55	9.109	
56	8.781	
57	8.467	
58	8.166	
59	7.876	
60	7.599	
61	7.332	
62	7.076	
63	6.830	
64	6.594	
65	6.367	
66	6.149	
67	5.940	
68	5.738	
69	5.545	
70	5.359	
71	5.180	
72	5.007	
73	4.842	
74	4.682	
75	4.529	
76	4.381	
77	4.239	
78	4.102	
79	3.970	
-		ı

ເຮ	Temp °C	K-Ohms
5	80	3.843
2	81	3.720
2	82	3.602
5	83	3.489
0	84	3.379
8	85	3.273
7	86	3.172
9	87	3.073
3	88	2.979
9	89	2.887
7	90	2.799
7	91	2.714
8	92	2.632
7	93	2.552
0	94	2.476
9	95	2.402
1	96	2.331
7	97	2.262
6	98	2.195
6	99	2.131
9	100	2.069
2	101	2.009
5	102	1.950
0	103	1.894
4	104	1.840
7	105	1.788
9	106	1.737
0	107	1.688
В	108	1.640
5	109	1.594
9	110	1.550
0	111	1.507
7	112	1.465
2	113	1.425
2	114	1.386
9	115	1.348

116

117

118

119

1.311

1.276

1.241

1.208

Temp °C	K-Ohms	
120	1.176	
121	1.145	
122	1.114	
123	1.085	
124	1.057	
125	1.029	
126	1.002	
127	0.9763	
128	0.9511	
129	0.9267	
130	0.9030	
131	0.8800	
132	0.8577	
133	0.8361	
134	0.8150	
135	0.7946	
136	0.7748	
137	0.7556	
138	0.7369	
139	0.7188	
140	0.7012	
141	0.6841	
142	0.6675	
143	0.6513	
144	0.6356	
145	0.6203	
146	0.6055	
147	47 0.5911	
148	0.5771	
149	0.5635	
150	0.5502	



ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
701008	44008RC,THERMISTOR,ROHS COMPLIANT	30,000	300
701108	44008RC-BP (100 PCS),THERMISTOR,ROHS	30,000	300

^{*} For quantities less than Minimum Order Quantity – contact distribution

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