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



K-Ohms

3.843

3.720

3.602

3.489

3.379

3.273

3.172

3.073 2.979

2.887

2.799

2.714

2.632

2.552

2.476

2.402

2.331

2.262

2.195

2.131

2.069

2.009

1.950

1.894

1.840

1.788

1.737

1.688

1.640

1.594 1.550

1.507 1.465

1.425

1.386

1.348

1.311

1.276

1.241

1.208

100

101

102

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110 111

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113 114

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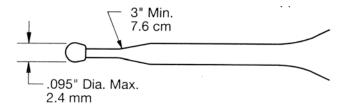
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MECHANICAL DETAILS



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
	<u> </u>

Temp °C	K-Ohms	Temp
40	16.15	80
41	15.52	81
42	14.92	82
43	14.35	83
44	13.80	84
45	13.28	85
46	12.77	86
47	12.29	87
48	11.83	88
49	11.39	89
50	10.97	90
51	10.57	91
52	10.18	92
53	9.807	93
54	9.450	94
55	9.109	95
56	8.781	96
57	8.467	97
58	8.166	98
59	7.876	99
60	7.599	100
61	7.332	101
62	7.076	102
63	6.830	103
64	6.594	104
65	6.367	105
66	6.149	106
67	5.940	10
68	5.738	108
69	5.545	109
70	5.359	110
71	5.180	111
72	5.007	112
73	4.842	113
74	4.682	114
75	4.529	115
76	4.381	116
77	4.239	11
78	4.102	118
79	3.970	119

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	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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