

# 44006RC Precision Epoxy NTC Thermistor



- 10,000 ohm Resistance @ 25°C
- Interchangeable  $\pm 0.2^{\circ}\text{C}$ ,  $0^{\circ}\text{C}$  to  $70^{\circ}\text{C}$ ,
- 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

- 10,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

## APPLICATIONS

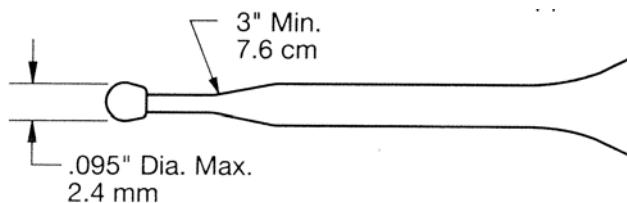
- Mid-range Temperature Applications
- Tight Tolerance Instrumentation
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

## PERFORMANCE SPECS

| Parameter                                             | Units                  | Value     |
|-------------------------------------------------------|------------------------|-----------|
| Resistance @ 25°C                                     | Ohms                   | 10,000    |
| Tolerance $0^{\circ}\text{C}$ to $70^{\circ}\text{C}$ | $^{\circ}\text{C}$     | $\pm 0.2$ |
| Beta Value 25/85                                      | K                      | 3694      |
| Tolerance on Beta Value                               | %                      | 0.8       |
| Time response in air                                  | Seconds                | < 10      |
| Dissipation Constant in air                           | mW/ $^{\circ}\text{C}$ | 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  | Temp °C | K-Ohms | Temp °C | K-Ohms | Temp °C | K-Ohms | Temp °C | K-Ohms |
|---------|---------|---------|--------|---------|--------|---------|--------|---------|--------|
| -55     | 607.800 | -15     | 61.020 | 25      | 10.000 | 65      | 2.3390 | 105     | 0.7126 |
| -54     | 569.600 | -14     | 58.010 | 26      | 9.605  | 66      | 2.2640 | 106     | 0.6936 |
| -53     | 534.100 | -13     | 55.170 | 27      | 9.227  | 67      | 2.1910 | 107     | 0.6753 |
| -52     | 501.000 | -12     | 52.480 | 28      | 8.867  | 68      | 2.1220 | 108     | 0.6575 |
| -51     | 470.100 | -11     | 49.940 | 29      | 8.523  | 69      | 2.0550 | 109     | 0.6403 |
| -50     | 441.300 | -10     | 47.540 | 30      | 8.194  | 70      | 1.9900 | 110     | 0.6235 |
| -49     | 414.500 | -9      | 45.270 | 31      | 7.880  | 71      | 1.9280 | 111     | 0.6073 |
| -48     | 389.400 | -8      | 43.110 | 32      | 7.579  | 72      | 1.8680 | 112     | 0.5916 |
| -47     | 366.000 | -7      | 41.070 | 33      | 7.291  | 73      | 1.8100 | 113     | 0.5764 |
| -46     | 344.100 | -6      | 39.140 | 34      | 7.016  | 74      | 1.7540 | 114     | 0.5616 |
| -45     | 323.700 | -5      | 37.310 | 35      | 6.752  | 75      | 1.7000 | 115     | 0.5473 |
| -44     | 304.600 | -4      | 35.570 | 36      | 6.500  | 76      | 1.6480 | 116     | 0.5334 |
| -43     | 286.700 | -3      | 33.930 | 37      | 6.258  | 77      | 1.5980 | 117     | 0.5199 |
| -42     | 270.000 | -2      | 32.370 | 38      | 6.026  | 78      | 1.5490 | 118     | 0.5068 |
| -41     | 254.400 | -1      | 30.890 | 39      | 5.805  | 79      | 1.5030 | 119     | 0.4941 |
| -40     | 239.800 | 0       | 29.490 | 40      | 5.592  | 80      | 1.4580 | 120     | 0.4818 |
| -39     | 226.000 | 1       | 28.150 | 41      | 5.389  | 81      | 1.4140 | 121     | 0.4698 |
| -38     | 213.200 | 2       | 26.890 | 42      | 5.193  | 82      | 1.3720 | 122     | 0.4582 |
| -37     | 201.100 | 3       | 25.690 | 43      | 5.006  | 83      | 1.3320 | 123     | 0.4469 |
| -36     | 189.800 | 4       | 24.550 | 44      | 4.827  | 84      | 1.2930 | 124     | 0.4359 |
| -35     | 179.200 | 5       | 23.460 | 45      | 4.655  | 85      | 1.2550 | 125     | 0.4253 |
| -34     | 169.300 | 6       | 22.430 | 46      | 4.489  | 86      | 1.2180 | 126     | 0.4149 |
| -33     | 160.000 | 7       | 21.450 | 47      | 4.331  | 87      | 1.1830 | 127     | 0.4049 |
| -32     | 151.200 | 8       | 20.520 | 48      | 4.179  | 88      | 1.1490 | 128     | 0.3951 |
| -31     | 143.000 | 9       | 19.630 | 49      | 4.033  | 89      | 1.1160 | 129     | 0.3856 |
| -30     | 135.200 | 10      | 18.790 | 50      | 3.893  | 90      | 1.0840 | 130     | 0.3764 |
| -29     | 127.900 | 11      | 17.980 | 51      | 3.758  | 91      | 1.0530 | 131     | 0.3674 |
| -28     | 121.100 | 12      | 17.220 | 52      | 3.629  | 92      | 1.0230 | 132     | 0.3587 |
| -27     | 114.600 | 13      | 16.490 | 53      | 3.504  | 93      | 0.9942 | 133     | 0.3503 |
| -26     | 108.600 | 14      | 15.790 | 54      | 3.385  | 94      | 0.9663 | 134     | 0.3420 |
| -25     | 102.900 | 15      | 15.130 | 55      | 3.270  | 95      | 0.9393 | 135     | 0.3340 |
| -24     | 97.490  | 16      | 14.500 | 56      | 3.160  | 96      | 0.9132 | 136     | 0.3263 |
| -23     | 92.430  | 17      | 13.900 | 57      | 3.054  | 97      | 0.8879 | 137     | 0.3187 |
| -22     | 87.660  | 18      | 13.330 | 58      | 2.952  | 98      | 0.8634 | 138     | 0.3113 |
| -21     | 83.160  | 19      | 12.790 | 59      | 2.854  | 99      | 0.8397 | 139     | 0.3042 |
| -20     | 78.910  | 20      | 12.260 | 60      | 2.760  | 100     | 0.8168 | 140     | 0.2972 |
| -19     | 74.910  | 21      | 11.770 | 61      | 2.669  | 101     | 0.7946 | 141     | 0.2904 |
| -18     | 71.130  | 22      | 11.290 | 62      | 2.582  | 102     | 0.7731 | 142     | 0.2838 |
| -17     | 67.570  | 23      | 10.840 | 63      | 2.497  | 103     | 0.7523 | 143     | 0.2774 |
| -16     | 64.200  | 24      | 10.410 | 64      | 2.417  | 104     | 0.7321 | 144     | 0.2712 |
|         |         |         |        |         |        |         |        | 145     | 0.2651 |
|         |         |         |        |         |        |         |        | 146     | 0.2592 |
|         |         |         |        |         |        |         |        | 147     | 0.2534 |
|         |         |         |        |         |        |         |        | 148     | 0.2478 |
|         |         |         |        |         |        |         |        | 149     | 0.2423 |
|         |         |         |        |         |        |         |        | 150     | 0.2370 |

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## ORDERING INFORMATION

| Part Number | Description                          | $\Omega$ @25°C | MOQ |
|-------------|--------------------------------------|----------------|-----|
| 701006      | 44006RC,THERMISTOR,ROHS COMPLIANT    | 10,000         | 300 |
| 701106      | 44006RC-BP (100 PCS),THERMISTOR,ROHS | 10,000         | 300 |

\* For quantities less than Minimum Order Quantity – contact distribution

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