

# MODEL 44006

## Precision Epoxy NTC Thermistor

- 10,000 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

## 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

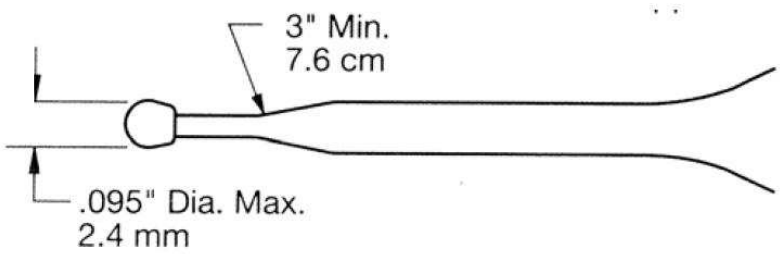


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## PERFORMANCE SPECS

| Parameter | Units | Value |
|---|---|---|
| Resistance @ 25°C | Ohms | 10,000 |
| Tolerance 0°C to 70°C | °C | ± 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/°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 | 607.800 |
| -54 | 569.600 |
| -53 | 534.100 |
| -52 | 501.000 |
| -51 | 470.100 |
| -50 | 441.300 |
| -49 | 414.500 |
| -48 | 389.400 |
| -47 | 366.000 |
| -46 | 344.100 |
| -45 | 323.700 |
| -44 | 304.600 |
| -43 | 286.700 |
| -42 | 270.000 |
| -41 | 254.400 |
| -40 | 239.800 |
| -39 | 226.000 |
| -38 | 213.200 |
| -37 | 201.100 |
| -36 | 189.800 |
| -35 | 179.200 |
| -34 | 169.300 |
| -33 | 160.000 |
| -32 | 151.200 |
| -31 | 143.000 |
| -30 | 135.200 |
| -29 | 127.900 |
| -28 | 121.100 |
| -27 | 114.600 |
| -26 | 108.600 |
| -25 | 102.900 |
| -24 | 97.490 |
| -23 | 92.430 |
| -22 | 87.660 |
| -21 | 83.160 |
| -20 | 78.910 |
| -19 | 74.910 |
| -18 | 71.130 |
| -17 | 67.570 |
| -16 | 64.200 |

| Temp °C | K-Ohms |
|---|---|
| -15 | 61.020 |
| -14 | 58.010 |
| -13 | 55.170 |
| -12 | 52.480 |
| -11 | 49.940 |
| -10 | 47.540 |
| -9 | 45.270 |
| -8 | 43.110 |
| -7 | 41.070 |
| -6 | 39.140 |
| -5 | 37.310 |
| -4 | 35.570 |
| -3 | 33.930 |
| -2 | 32.370 |
| -1 | 30.890 |
| 0 | 29.490 |
| 1 | 28.150 |
| 2 | 26.890 |
| 3 | 25.690 |
| 4 | 24.550 |
| 5 | 23.460 |
| 6 | 22.430 |
| 7 | 21.450 |
| 8 | 20.520 |
| 9 | 19.630 |
| 10 | 18.790 |
| 11 | 17.980 |
| 12 | 17.220 |
| 13 | 16.490 |
| 14 | 15.790 |
| 15 | 15.130 |
| 16 | 14.500 |
| 17 | 13.900 |
| 18 | 13.330 |
| 19 | 12.790 |
| 20 | 12.260 |
| 21 | 11.770 |
| 22 | 11.290 |
| 23 | 10.840 |
| 24 | 10.410 |

| Temp °C | K-Ohms |
|---|---|
| 25 | 10.000 |
| 26 | 9.605 |
| 27 | 9.227 |
| 28 | 8.867 |
| 29 | 8.523 |
| 30 | 8.194 |
| 31 | 7.880 |
| 32 | 7.579 |
| 33 | 7.291 |
| 34 | 7.016 |
| 35 | 6.752 |
| 36 | 6.500 |
| 37 | 6.258 |
| 38 | 6.026 |
| 39 | 5.805 |
| 40 | 5.592 |
| 41 | 5.389 |
| 42 | 5.193 |
| 43 | 5.006 |
| 44 | 4.827 |
| 45 | 4.655 |
| 46 | 4.489 |
| 47 | 4.331 |
| 48 | 4.179 |
| 49 | 4.033 |
| 50 | 3.893 |
| 51 | 3.758 |
| 52 | 3.629 |
| 53 | 3.504 |
| 54 | 3.385 |
| 55 | 3.270 |
| 56 | 3.160 |
| 57 | 3.054 |
| 58 | 2.952 |
| 59 | 2.854 |
| 60 | 2.760 |
| 61 | 2.669 |
| 62 | 2.582 |
| 63 | 2.497 |
| 64 | 2.417 |

| Temp °C | K-Ohms |
|---|---|
| 65 | 2.3390 |
| 66 | 2.2640 |
| 67 | 2.1910 |
| 68 | 2.1220 |
| 69 | 2.0550 |
| 70 | 1.9900 |
| 71 | 1.9280 |
| 72 | 1.8680 |
| 73 | 1.8100 |
| 74 | 1.7540 |
| 75 | 1.7000 |
| 76 | 1.6480 |
| 77 | 1.5980 |
| 78 | 1.5490 |
| 79 | 1.5030 |
| 80 | 1.4580 |
| 81 | 1.4140 |
| 82 | 1.3720 |
| 83 | 1.3320 |
| 84 | 1.2930 |
| 85 | 1.2550 |
| 86 | 1.2180 |
| 87 | 1.1830 |
| 88 | 1.1490 |
| 89 | 1.1160 |
| 90 | 1.0840 |
| 91 | 1.0530 |
| 92 | 1.0230 |
| 93 | 0.9942 |
| 94 | 0.9663 |
| 95 | 0.9393 |
| 96 | 0.9132 |
| 97 | 0.8879 |
| 98 | 0.8634 |
| 99 | 0.8397 |
| 100 | 0.8168 |
| 101 | 0.7946 |
| 102 | 0.7731 |
| 103 | 0.7523 |
| 104 | 0.7321 |

| Temp °C | K-Ohms |
|---|---|
| 105 | 0.7126 |
| 106 | 0.6936 |
| 107 | 0.6753 |
| 108 | 0.6575 |
| 109 | 0.6403 |
| 110 | 0.6235 |
| 111 | 0.6073 |
| 112 | 0.5916 |
| 113 | 0.5764 |
| 114 | 0.5616 |
| 115 | 0.5473 |
| 116 | 0.5334 |
| 117 | 0.5199 |
| 118 | 0.5068 |
| 119 | 0.4941 |
| 120 | 0.4818 |
| 121 | 0.4698 |
| 122 | 0.4582 |
| 123 | 0.4469 |
| 124 | 0.4359 |
| 125 | 0.4253 |
| 126 | 0.4149 |
| 127 | 0.4049 |
| 128 | 0.3951 |
| 129 | 0.3856 |
| 130 | 0.3764 |
| 131 | 0.3674 |
| 132 | 0.3587 |
| 133 | 0.3503 |
| 134 | 0.3420 |
| 135 | 0.3340 |
| 136 | 0.3263 |
| 137 | 0.3187 |
| 138 | 0.3113 |
| 139 | 0.3042 |
| 140 | 0.2972 |
| 141 | 0.2904 |
| 142 | 0.2838 |
| 143 | 0.2774 |
| 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 | Ω @25ºC |
|---|---|---|
| 701006 | 44006RC,THERMISTOR,ROHS COMPLIANT | 10,000 |
| 701106 | 44006RC-BP (100 PCS),THERMISTOR,ROHS | 10,000 |

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