



MODEL 44101

Thermistor with Teflon® Sheath

- 2" (51mm) Teflon® Sheath for Hostile Environments
- 100 ohm Resistance @ 25°C
- Interchangeable $\pm 0.2^{\circ}\text{C}$, 0°C to 70°C
- Pressed Disk Ceramic Sensor
- High sensitivity
- Thermally conductive epoxy coating
- 32 AWG, 3" (7.6 cm) long Silver plated copper leads
- One inner lead is sleeved with Teflon® tubing for insulation
- A nickel stiffening wire allows shaping of the sheath
- RoHS Compliant

FEATURES

- Teflon® Sheath
- 100 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

APPLICATIONS

- Harsh Chemical Environments
- Low Temperature Applications
- Tight Tolerance Applications
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

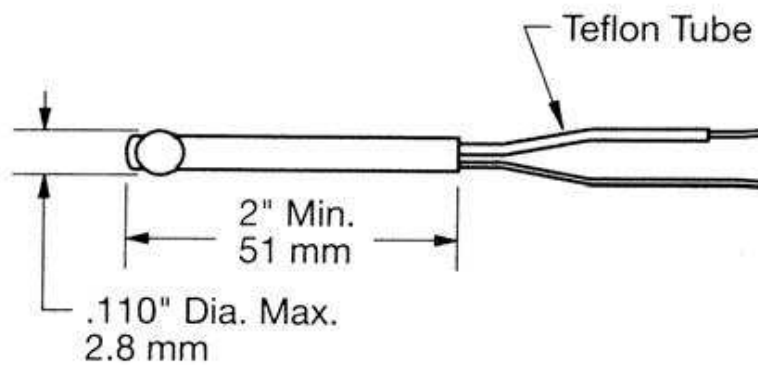
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PERFORMANCE SPECS

| Parameter | Units | Value |
|--|---------|-------|
| Resistance @ 25°C | Ohms | 100 |
| Tolerance 0°C to 70°C | °C | ± 0.2 |
| Beta Value 25/85 | K | 2873 |
| Tolerance on Beta Value | % | 0.8 |
| Time response in air | Seconds | < 10 |
| 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 | Temp °C | K-Ohms | Temp °C | K-Ohms | Temp °C | K-Ohms | Temp °C | K-Ohms |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| -80 | 14.470 | -35 | 1.073 | 10 | 0.1659 | 55 | 0.0415 | 100 | 0.0143 |
| -79 | 13.510 | -34 | 1.023 | 11 | 0.1601 | 56 | 0.0404 | | |
| -78 | 12.620 | -33 | 0.975 | 12 | 0.1546 | 57 | 0.0393 | | |
| -77 | 11.800 | -32 | 0.930 | 13 | 0.1493 | 58 | 0.0383 | | |
| -76 | 11.040 | -31 | 0.887 | 14 | 0.1442 | 59 | 0.0373 | | |
| -75 | 10.330 | -30 | 0.846 | 15 | 0.1394 | 60 | 0.0364 | | |
| -74 | 9.672 | -29 | 0.808 | 16 | 0.1347 | 61 | 0.0354 | | |
| -73 | 9.061 | -28 | 0.771 | 17 | 0.1302 | 62 | 0.0345 | | |
| -72 | 8.494 | -27 | 0.736 | 18 | 0.1259 | 63 | 0.0337 | | |
| -71 | 7.966 | -26 | 0.704 | 19 | 0.1217 | 64 | 0.0328 | | |
| -70 | 7.475 | -25 | 0.673 | 20 | 0.1177 | 65 | 0.0320 | | |
| -69 | 7.018 | -24 | 0.643 | 21 | 0.1139 | 66 | 0.0312 | | |
| -68 | 6.592 | -23 | 0.615 | 22 | 0.1102 | 67 | 0.0304 | | |
| -67 | 6.195 | -22 | 0.588 | 23 | 0.1067 | 68 | 0.0297 | | |
| -66 | 5.825 | -21 | 0.563 | 24 | 0.1033 | 69 | 0.0290 | | |
| -65 | 5.479 | -20 | 0.539 | 25 | 0.1000 | 70 | 0.0283 | | |
| -64 | 5.157 | -19 | 0.516 | 26 | 0.0969 | 71 | 0.0276 | | |
| -63 | 4.856 | -18 | 0.494 | 27 | 0.0938 | 72 | 0.0269 | | |
| -62 | 4.575 | -17 | 0.474 | 28 | 0.0909 | 73 | 0.0263 | | |
| -61 | 4.312 | -16 | 0.454 | 29 | 0.0881 | 74 | 0.0256 | | |
| -60 | 4.066 | -15 | 0.435 | 30 | 0.0854 | 75 | 0.0250 | | |
| -59 | 3.835 | -14 | 0.417 | 31 | 0.0828 | 76 | 0.0245 | | |
| -58 | 3.620 | -13 | 0.400 | 32 | 0.0803 | 77 | 0.0239 | | |
| -57 | 3.418 | -12 | 0.384 | 33 | 0.0778 | 78 | 0.0233 | | |
| -56 | 3.229 | -11 | 0.369 | 34 | 0.0755 | 79 | 0.0228 | | |
| -55 | 3.051 | -10 | 0.354 | 35 | 0.0732 | 80 | 0.0223 | | |
| -54 | 2.885 | -9 | 0.340 | 36 | 0.0711 | 81 | 0.0218 | | |
| -53 | 2.729 | -8 | 0.327 | 37 | 0.0690 | 82 | 0.0213 | | |
| -52 | 2.582 | -7 | 0.314 | 38 | 0.0670 | 83 | 0.0208 | | |
| -51 | 2.445 | -6 | 0.302 | 39 | 0.0650 | 84 | 0.0203 | | |
| -50 | 2.315 | -5 | 0.290 | 40 | 0.0631 | 85 | 0.0199 | | |
| -49 | 2.194 | -4 | 0.279 | 41 | 0.0613 | 86 | 0.0194 | | |
| -48 | 2.079 | -3 | 0.268 | 42 | 0.0596 | 87 | 0.0190 | | |
| -47 | 1.972 | -2 | 0.258 | 43 | 0.0579 | 88 | 0.0186 | | |
| -46 | 1.870 | -1 | 0.249 | 44 | 0.0562 | 89 | 0.0182 | | |
| -45 | 1.775 | 0 | 0.239 | 45 | 0.0547 | 90 | 0.0178 | | |
| -44 | 1.685 | 1 | 0.230 | 46 | 0.0531 | 91 | 0.0174 | | |
| -43 | 1.600 | 2 | 0.222 | 47 | 0.0517 | 92 | 0.0170 | | |
| -42 | 1.521 | 3 | 0.214 | 48 | 0.0502 | 93 | 0.0166 | | |
| -41 | 1.445 | 4 | 0.206 | 49 | 0.0489 | 94 | 0.0163 | | |
| -40 | 1.374 | 5 | 0.199 | 50 | 0.0475 | 95 | 0.0159 | | |
| -39 | 1.307 | 6 | 0.192 | 51 | 0.0462 | 96 | 0.0156 | | |
| -38 | 1.244 | 7 | 0.185 | 52 | 0.0450 | 97 | 0.0153 | | |
| -37 | 1.184 | 8 | 0.178 | 53 | 0.0438 | 98 | 0.0150 | | |
| -36 | 1.127 | 9 | 0.172 | 54 | 0.0426 | 99 | 0.0146 | | |

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ORDERING INFORMATION

| Part Number | Description | Ω @25°C |
|-------------|-------------------------------|----------------|
| 095311 | 44101A THERM FEP ENCAPSULATED | 100 |

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