



## MODEL 44014

### Precision Epoxy NTC Thermistor

- 300,000 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

#### FEATURES

- 300,000 Ohm Resistance @  $25^{\circ}\text{C}$
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

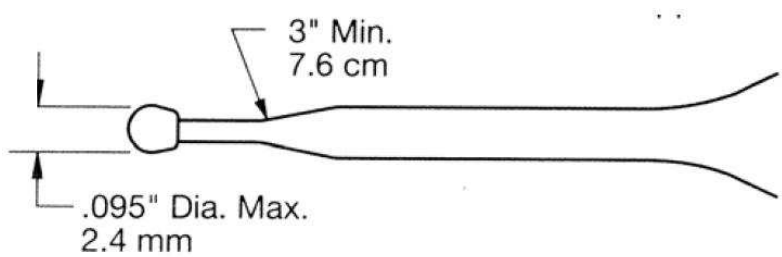
#### APPLICATIONS

- 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    | 300,000 |
| Tolerance 0°C to 70°C                                | °C      | ± 0.2   |
| Beta Value 25/85                                     | K       | 4462    |
| 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



**TYPICAL PERFORMANCE CURVES (RESISTANCE OF INDIVIDUAL THERMISTORS)**

| Temp<br>°C | K-Ohms | Temp<br>°C | K-Ohms | Temp<br>°C | K-Ohms | Temp<br>°C | K-Ohms | Temp<br>°C | K-Ohms |
|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| 0          | 1088.0 | 30         | 236.4  | 60         | 63.70  | 90         | 20.45  | 120        | 7.594  |
| 1          | 1030.0 | 31         | 225.6  | 61         | 61.17  | 91         | 19.75  | 121        | 7.364  |
| 2          | 975.3  | 32         | 215.3  | 62         | 58.75  | 92         | 19.07  | 122        | 7.142  |
| 3          | 923.8  | 33         | 205.5  | 63         | 56.44  | 93         | 18.41  | 123        | 6.927  |
| 4          | 875.2  | 34         | 196.2  | 64         | 54.23  | 94         | 17.78  | 124        | 6.720  |
| 5          | 829.5  | 35         | 187.4  | 65         | 52.12  | 95         | 17.18  | 125        | 6.519  |
| 6          | 786.3  | 36         | 179.0  | 66         | 50.10  | 96         | 16.60  | 126        | 6.326  |
| 7          | 745.6  | 37         | 171.0  | 67         | 48.17  | 97         | 16.04  | 127        | 6.139  |
| 8          | 707.2  | 38         | 163.5  | 68         | 46.32  | 98         | 15.50  | 128        | 5.958  |
| 9          | 671.0  | 39         | 156.3  | 69         | 44.54  | 99         | 14.98  | 129        | 5.784  |
| 10         | 636.8  | 40         | 149.4  | 70         | 42.85  | 100        | 14.48  | 130        | 5.615  |
| 11         | 604.5  | 41         | 142.9  | 71         | 41.23  | 101        | 14.00  | 131        | 5.452  |
| 12         | 574.0  | 42         | 136.7  | 72         | 39.67  | 102        | 13.54  | 132        | 5.294  |
| 13         | 545.2  | 43         | 130.8  | 73         | 38.18  | 103        | 13.09  | 133        | 5.141  |
| 14         | 518.0  | 44         | 125.1  | 74         | 36.75  | 104        | 12.66  | 134        | 4.994  |
| 15         | 492.3  | 45         | 119.8  | 75         | 35.39  | 105        | 12.25  | 135        | 4.851  |
| 16         | 468.0  | 46         | 114.7  | 76         | 34.08  | 106        | 11.86  | 136        | 4.713  |
| 17         | 444.9  | 47         | 109.8  | 77         | 32.82  | 107        | 11.47  | 137        | 4.580  |
| 18         | 423.2  | 48         | 105.2  | 78         | 31.62  | 108        | 11.11  | 138        | 4.450  |
| 19         | 402.6  | 49         | 100.8  | 79         | 30.46  | 109        | 10.75  | 139        | 4.325  |
| 20         | 383.1  | 50         | 96.54  | 80         | 29.35  | 110        | 10.41  | 140        | 4.204  |
| 21         | 364.6  | 51         | 92.52  | 81         | 28.29  | 111        | 10.08  | 141        | 4.087  |
| 22         | 347.1  | 52         | 88.69  | 82         | 27.27  | 112        | 9.763  | 142        | 3.974  |
| 23         | 330.6  | 53         | 85.04  | 83         | 26.29  | 113        | 9.456  | 143        | 3.864  |
| 24         | 314.9  | 54         | 81.55  | 84         | 25.35  | 114        | 9.161  | 144        | 3.757  |
| 25         | 300.0  | 55         | 78.22  | 85         | 24.45  | 115        | 8.876  | 145        | 3.654  |
| 26         | 285.9  | 56         | 75.04  | 86         | 23.59  | 116        | 8.601  | 146        | 3.555  |
| 27         | 272.5  | 57         | 72.01  | 87         | 22.76  | 117        | 8.336  | 147        | 3.458  |
| 28         | 259.8  | 58         | 69.11  | 88         | 21.96  | 118        | 8.080  | 148        | 3.364  |
| 29         | 247.8  | 59         | 66.34  | 89         | 21.19  | 119        | 7.832  | 149        | 3.274  |
|            |        |            |        |            |        |            |        | 150        | 3.186  |

## MODEL 44014

Precision Epoxy NTC Thermistor

### ORDERING INFORMATION

| Part Number | Description                          | $\Omega$ @25°C |
|-------------|--------------------------------------|----------------|
| 701014      | 44014RC,THERMISTOR,ROHS COMPLIANT    | 300,000        |
| 701114      | 44014RC-BP (100 PCS),THERMISTOR,ROHS | 300,000        |

#### NORTH AMERICA

Measurement Specialties, Inc.,  
a TE Connectivity Company  
Tel: 800-522-6752  
[customercare.ando@te.com](mailto:customercare.ando@te.com)

#### EUROPE

Measurement Specialties (Europe), Ltd.,  
a TE Connectivity Company  
Tel: 800-440-5100  
[customercare.tlse@te.com](mailto:customercare.tlse@te.com)

#### ASIA

Measurement Specialties (China), Ltd.,  
a TE Connectivity Company  
Tel: 0400-820-6015  
[customercare.chdu@te.com](mailto:customercare.chdu@te.com)

#### [te.com/sensorsolutions](http://te.com/sensorsolutions)

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties (MEAS), American Sensor Technologies (AST), TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2016 TE Connectivity Ltd. family of companies All Rights Reserved.