

## NTC Thermistors, Long Insulated Leads



| QUICK REFERENCE DATA  |                  |
|---|------------------|
| PARAMETER   | VALUE            |
| Resistance value at:  |                  |
| 0 °C  | 9000 $\Omega$    |
| 25 °C   | 2769 $\Omega$    |
| Tolerance on R <sub>25</sub> - value:                                   |                  |
| 0 °C  | $\pm 2 \%$       |
| 25 °C   | $\pm 3.82 \%$    |
| B <sub>25/85</sub> - value  | 3977 K           |
| Maximum dissipation   | 100 mW           |
| Dissipation factor $\delta$   | 1.35 mW/K        |
| Minimum dielectric withstanding voltage (RMS) between leads and coating | 500 V            |
| Response time   | 1.25 s           |
| Operating temperature range:  |                  |
| at zero power   | - 40 to + 125 °C |
| at maximum power  | 0 to + 55 °C     |
| Climatic category   | 40/125/56        |
| Mass  | $\approx 0.16$ g |

### FEATURES

- Long and flexible leads for special mounting or assembly requirements
- Insulated leads for prevention of short circuits
- Electrical features of 'accuracy line' sensors
- Small diameter
- Old part number was 2322 640 90059
- Components in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC

### APPLICATIONS

- Temperature sensing and control

These thermistors have a negative temperature coefficient. The device consists of a chip with two insulated nickel leads.

### PACKAGING

The thermistors are packed in cardboard boxes; the smallest packing quantity is 1000 units.

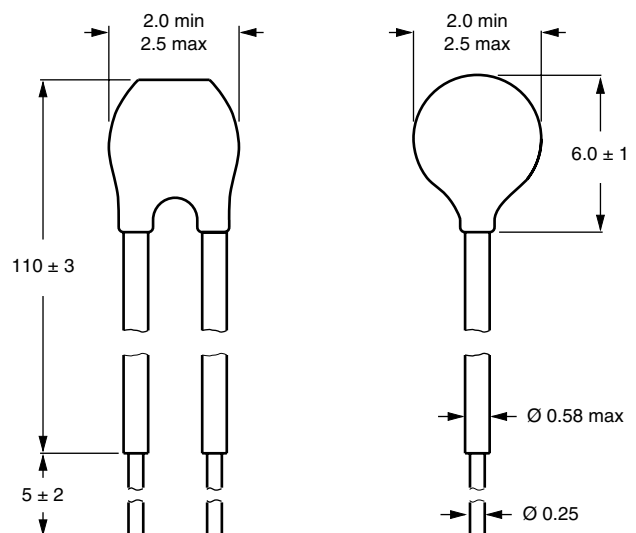
### MARKING

The body is coated with ochre-colored epoxy lacquer and is not marked.

### MOUNTING

By soldering in any position

### DIMENSIONS in millimeters





| <b>RESISTANCE VALUES AT INTERMEDIATE TEMPERATURES</b> |                           |                      |   |
|---|---------------------------|----------------------|---|
| <b>T<sub>OPER</sub><br/>(°C)</b>                      | <b>RESISTANCE<br/>(Ω)</b> | <b>TCR<br/>(%/K)</b> | <b>RESISTANCE<br/>TOLERANCE<br/>(%)</b> |
| - 40  | 90 923                    | 6.57                 | ± 5.60                                  |
| - 35  | 65 808                    | 6.35                 | ± 5.09                                  |
| - 30  | 48 141                    | 6.15                 | ± 4.60                                  |
| - 25  | 35 578                    | 5.95                 | ± 4.13                                  |
| - 20  | 26 550                    | 5.76                 | ± 3.67                                  |
| - 15  | 19 998                    | 5.58                 | ± 3.23                                  |
| - 10  | 15 197                    | 5.40                 | ± 2.81                                  |
| - 5   | 11 648                    | 5.24                 | ± 2.40                                  |
| 0   | 9000                      | 5.08                 | ± 2.00                                  |
| 5   | 7008.6                    | 4.92                 | ± 2.38                                  |
| 10  | 5498.8                    | 4.78                 | ± 2.76                                  |
| 15  | 4345.1                    | 4.64                 | ± 3.12                                  |
| 20  | 3457.2                    | 4.50                 | ± 3.47                                  |
| 25  | 2769.0                    | 4.37                 | ± 3.82                                  |
| 30  | 2231.7                    | 4.25                 | ± 4.16                                  |
| 35  | 1809.6                    | 4.13                 | ± 4.48                                  |
| 40  | 1476.0                    | 4.02                 | ± 4.80                                  |
| 45  | 1210.6                    | 3.91                 | ± 5.12                                  |
| 50  | 998.37                    | 3.80                 | ± 5.42                                  |
| 55  | 827.59                    | 3.70                 | ± 5.72                                  |
| 60  | 689.46                    | 3.60                 | ± 6.01                                  |
| 65  | 577.15                    | 3.51                 | ± 6.29                                  |
| 70  | 485.38                    | 3.42                 | ± 6.57                                  |
| 75  | 410.02                    | 3.33                 | ± 6.84                                  |
| 80  | 347.86                    | 3.25                 | ± 7.10                                  |
| 85  | 296.35                    | 3.16                 | ± 7.36                                  |
| 90  | 253.47                    | 3.09                 | ± 7.61                                  |
| 95  | 217.64                    | 3.01                 | ± 7.86                                  |
| 100   | 187.57                    | 2.94                 | ± 8.10                                  |
| 105   | 162.24                    | 2.87                 | ± 8.33                                  |
| 110   | 140.81                    | 2.80                 | ± 8.56                                  |
| 115   | 122.63                    | 2.73                 | ± 8.79                                  |
| 120   | 107.14                    | 2.67                 | ± 9.01                                  |
| 125   | 93.90                     | 2.61                 | ± 9.22                                  |



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