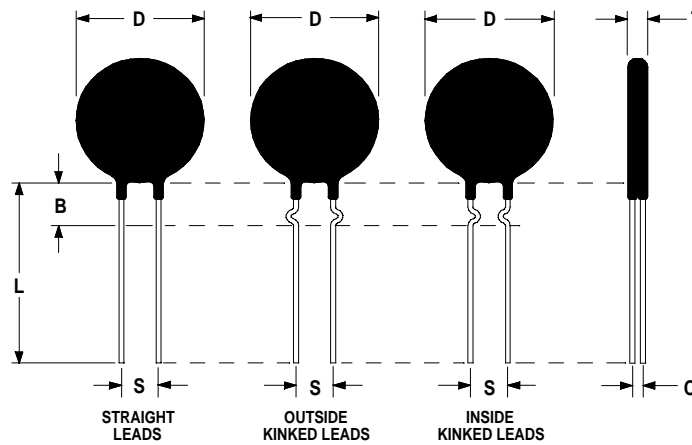


Part Number: NT05 10311

### Ordering Different Lead Types:

|                      |                                       |
|----------------------|---------------------------------------|
| Inside Kinked Leads  | Use <b>-A</b> after Ametherm's part # |
| Outside Kinked Leads | Not Available                         |

For example: to order an inside kinked lead use part number NT05 10311-A



### Electrical Specifications:

|                                       |                         |
|---------------------------------------|-------------------------|
| Zero-Power Resistance @ 25°C          | 10.0K $\Omega \pm 10\%$ |
| Resistance @ 0°C/ Resistance @ 50°C   | 10.45 $\pm 1\%$         |
| Resistance @ 25°C/ Resistance @ 125°C | 38.7 $\pm 1\%$          |
| Beta                                  | 4250 $\pm 1\%$          |
| Temp Coefficient of Resistance @ 25°C | -4.78%/°C               |
| Operating Temperature Range           | -50°C/150°C             |
| Maximum Permissible Power             | 0.45 W                  |
| Dissipation Constant                  | 4.5mW/°C                |
| Thermal Time Constant                 | 10 seconds              |

### Mechanical Specifications:

|                |                   |
|----------------|-------------------|
| D              | 5.0 $\pm 0.5$ mm  |
| T              | 3.0 mm Max        |
| Lead Diameter  | 0.5 mm Nom        |
| S              | 2.55 $\pm 0.2$ mm |
| L              | 38.0 mm Min       |
| Straight Leads | Standard          |

Revision Date: August 12, 2002

**Ametherm, Inc.** 3111 N. Deer Run Road #4 Carson City, NV 89701  
 Telephone: (800) 808-2434 (775) 884-2434 Fax: (775) 884-0670

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## DATA SHEET

Part Number: NT05 10311

### Resistance Temperature Curve:

| Temperature | R@T/R@25°C |
|-------------|------------|
| -50         | 86.49      |
| -45         | 58.59      |
| -40         | 40.70      |
| -35         | 30.44      |
| -30         | 20.73      |
| -25         | 15.65      |
| -20         | 11.03      |
| -15         | 8.513      |
| -10         | 6.119      |
| -5          | 4.763      |
| 0           | 3.510      |
| 5           | 2.748      |
| 10          | 2.078      |
| 15          | 1.630      |
| 20          | 1.267      |
| 25          | 1.000      |
| 30          | 0.7942     |
| 35          | 0.6524     |
| 40          | 0.5105     |
| 45          | 0.4243     |
| 50          | 0.3359     |
| 55          | 0.2810     |
| 60          | 0.2259     |
| 65          | 0.1907     |
| 70          | 0.1550     |
| 75          | 0.1317     |
| 80          | 0.1084     |
| 85          | 0.09268    |
| 90          | 0.07708    |
| 95          | 0.06639    |
| 100         | 0.05569    |
| 105         | 0.04265    |
| 110         | 0.04090    |
| 115         | 0.03568    |
| 120         | 0.03045    |
| 125         | 0.02671    |
| 130         | 0.02297    |
| 135         | 0.02026    |
| 140         | 0.01754    |
| 145         | 0.01555    |
| 150         | 0.01355    |

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