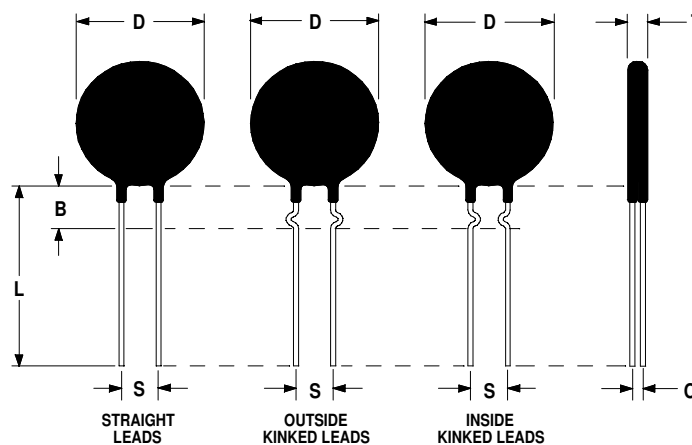


Part Number: NT03 10052

### Ordering Different Lead Types:

|                      |                                       |
|----------------------|---------------------------------------|
| Inside Kinked Leads  | Use <b>-A</b> after Ametherm's part # |
| Outside Kinked Leads | Use <b>-B</b> after Ametherm's part # |

For example: to order an inside kinked lead use part number NT03 10052-A



### Electrical Specifications:

|                                       |               |
|---------------------------------------|---------------|
| Zero-Power Resistance @ 25°C          | 10.0 Ω ± 10%  |
| Resistance @ 0°C/ Resistance @ 50°C   | 5.60 ± 1%     |
| Resistance @ 25°C/ Resistance @ 125°C | 14.1 ± 2%     |
| Beta                                  | 3169 ± 2%     |
| Temp Coefficient of Resistance @ 25°C | -3.42%/°C     |
| Operating Temperature Range           | -50°C ± 150°C |
| Maximum Permissible Power             | 0.45 W        |
| Dissipation Constant                  | 4.0mW/°C      |
| Thermal Time Constant                 | 10 seconds    |
| Material Type                         | "G"           |
| Max Steady State Current up to 65°C   | 0.250 A       |
| Resistance @ Max Steady State Current | 12.00 Ω       |
| Max Instantaneous Energy              | 3.0 J         |

### Mechanical Specifications:

|                |             |
|----------------|-------------|
| D              | 3.20 mm Max |
| T              | 3.20 mm Max |
| Lead Diameter  | 0.5 mm Nom  |
| S              | 3.55 mm Nom |
| L              | 38.0 mm Min |
| Straight Leads | Standard    |

Revision Date: March 19, 2003

**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: NT03 10052

### Resistance Temperature Curve:

| Temperature | R@T/R@25°C |
|-------------|------------|
| -40         | 15.45      |
| -30         | 9.358      |
| -20         | 5.875      |
| -10         | 3.798      |
| 0           | 2.517      |
| 10          | 1.711      |
| 20          | 1.191      |
| 25          | 1.000      |
| 30          | 0.840      |
| 40          | 0.608      |
| 50          | 0.449      |
| 60          | 0.3379     |
| 70          | 0.2568     |
| 80          | 0.1985     |
| 90          | 0.1552     |
| 100         | 0.1230     |
| 110         | 0.0977     |
| 120         | 0.0785     |
| 125         | 0.0709     |
| 130         | 0.0640     |
| 140         | 0.0529     |
| 150         | 0.0442     |

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