

Series I Thermistors

2.2 to 100K Ohms Resistance @25°C
 Thermally Conductive Epoxy Coating
 Choice of 4 Temperature Tolerance
 Classifications
 Low Cost

SERIES I THERMISTORS

The BetaCURVE chip is soldered to 32 AWG Alloy 180 leads and encapsulated in Stycast epoxy resin

FEATURES

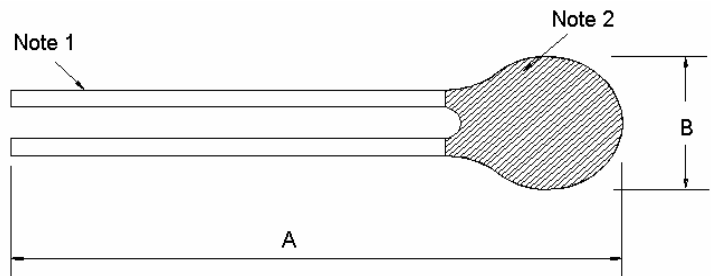
- 2.2 to 100K Ohms Resistance @25°C
- Proven Stability and Reliability
- Alloy lead wires for reduced thermal conductivity
- Interchangeability
- Thermally conductive epoxy coating
- Temperature range -40°C to +125°C
- RoHS Compliant

APPLICATIONS

- Tight tolerance instrumentation
- Temperature sensing, control and compensation
- Assembly into probes for a wide variety of applications
- General instrumentation applications



Dimensions



| | Dimensions | |
|---------------|------------------------------|-----------|
| | A | B |
| | 76 ± 2mm | 2.4mm Max |
| Note 1 | 32 AWG Solid Alloy 180 Leads | |
| Note 2 | Stycast 2850ft Epoxy | |

Series I Thermistors

Product Definition

| Part Number | Color Coding | Resistance [Ω] @ +25°C | Tolerance from 0 to +70°C | Alpha Value @ +25°C | Beta Value 25/85 | Beta Tolerance | Dissipation Constant in still air @ +25°C | Time response (Stirred Oil) |
|--------------------------|--------------|------------------------|---------------------------|---------------------|------------------|----------------|---|-----------------------------|
| 2.2K3A1A | Brown | 2,252 | ±0.1°C | -4.39 %/ °C | 3976 | ±0.5% | 0.75 mW/°C | <1 second |
| 2.2K3A1B | | | ±0.2°C | | | | | |
| 2.2K3A1C | | | ±0.5°C | | | | | |
| 2.2K3A1D | | | ±1.0°C | | | | | |
| 3K3A1A | Red | 3,000 | ±0.1°C | -4.39 %/ °C | 3976 | ±0.5% | 0.75 mW/°C | <1 second |
| 3K3A1B | | | ±0.2°C | | | | | |
| 3K3A1C | | | ±0.5°C | | | | | |
| 3K3A1D | | | ±1.0°C | | | | | |
| 5K3A1A | Orange | 5,000 | ±0.1°C | -4.39 %/ °C | 3976 | ±0.5% | 0.75 mW/°C | <1 second |
| 5K3A1B | | | ±0.2°C | | | | | |
| 5K3A1C | | | ±0.5°C | | | | | |
| 5K3A1D | | | ±1.0°C | | | | | |
| 10K3A1A | Yellow | 10,000 | ±0.1°C | -4.39 %/ °C | 3976 | ±0.5% | 0.75 mW/°C | <1 second |
| 10K3A1B | | | ±0.2°C | | | | | |
| 10K3A1C | | | ±0.5°C | | | | | |
| 10K3A1D | | | ±1.0°C | | | | | |
| 10K4A1A | Black | 10,000 | ±0.1°C | -4.04 %/ °C | 3694 | ±0.5% | 0.75 mW/°C | <1 second |
| 10K4A1B | | | ±0.2°C | | | | | |
| 10K4A1C | | | ±0.5°C | | | | | |
| 10K4A1D | | | ±1.0°C | | | | | |
| 30K5A1A | White | 30,000 | ±0.1°C | -4.30 %/ °C | 3942 | ±0.5% | 0.75 mW/°C | <1 second |
| 30K5A1B | | | ±0.2°C | | | | | |
| 30K5A1C | | | ±0.5°C | | | | | |
| 30K5A1D | | | ±1.0°C | | | | | |
| 30K6A1A | Green | 30,000 | ±0.1°C | -4.68 %/ °C | 4261 | ±0.5% | 0.75 mW/°C | <1 second |
| 30K6A1B | | | ±0.2°C | | | | | |
| 30K6A1C | | | ±0.5°C | | | | | |
| 30K6A1D | | | ±1.0°C | | | | | |
| 50K6A1A | Blue | 50,000 | ±0.1°C | -4.68 %/ °C | 4261 | ±0.5% | 0.75 mW/°C | <1 second |
| 50K6A1B | | | ±0.2°C | | | | | |
| 50K6A1C | | | ±0.5°C | | | | | |
| 50K6A1D | | | ±1.0°C | | | | | |
| 100K6A1A | Violet | 100,000 | ±0.1°C | -4.68 %/ °C | 4261 | ±0.5% | 0.75 mW/°C | <1 second |
| 100K6A1B | | | ±0.2°C | | | | | |
| 100K6A1C | | | ±0.5°C | | | | | |
| 100K6A1D | | | ±1.0°C | | | | | |

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