

Series 1 BetaCurve Bare leaded Thermistors



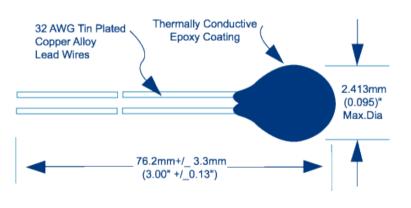
Introduction

The BetaCURVE Thermistor Series I are small epoxy coated devices with solid tin plated lead wires. The series offers a choice of precision temperature tolerance classifications for a wide variety of customer applications, such as temperature measurements, temperature indication, temperature control, and thermal compensation.

The BetaCURVE Series history of "long term" stability and reliability performance have been demonstrated in critical medical, scientific instrumentation, military/aerospace and industrial applications.

Thermistor interchangeability has become an important factor for cost efficiency in advanced thermal performance applications. The need for expensive individual thermistor calibration is not necessary. The BetaCURVE Series interchangeability means that each device will match the published Resistance-Temperature Characteristics for a given thermistor and will be within the specified deviation (tolerance, ie. ±0.1°C, ±0.2°C, ±0.5°C and ±1.0°C) limits over the temperature range 0°C to 70°C.

Shape and Dimensions

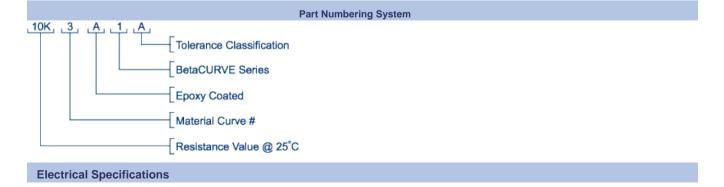


Features

- ·Fast time response (1 second typical in liquids).
- •DC (Dissipation Constant) = 0.75 mW/° C typical in still air at 25°C.
- Available in custom probe assemblies.
- •Tight tolerance available +/- 0.1°C from $^{\circ}C$ to 70 $^{\circ}C$.
- Proven Stability and Reliability.
- ·Min./Max Temperature Exposure = -80°C to +150°C.
- Alloy lead wires for reduced thermal conductivity ("stem effect").

Applications

- •Temperature sensing, control and compensation.
- Medical equipment and patient monitoring.
- Aerospace instrumentation and crystal oscillator compensation.
- ·Liquid or gas temperature control and monitoring.
- Assembly into probes for a wide variety of applications.



Resistance

Number		25°C (Ohms)	Tol. @ 25°C		@ 25°C	Beta Value	
2.2K3A1A	Brown	2252	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
2.2K3A1B	Brown	2252	± 0.50%	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
2.2K3A1C	Brown	2252	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
2.2K3A1D	Brown	2252	± 2.00%	± 1.0 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>3K3A1A</u>	Red	3000	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>3K3A1B</u>	Red	3000	± 0.50%	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>3K3A1C</u>	Red	3000	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>3K3A1D</u>	Red	3000	± 2.00%	± 1.0 °C (0 to 70 °C)	−4.39 %/°C	3892	<u>3</u>
<u>5K3A1A</u>	Orange	5000	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>5K3A1B</u>	Orange	5000	± 0.50%	± 0.2 °C (0 to 70 °C)	−4.39 %/°C	3892	<u>3</u>
<u>5K3A1C</u>	Orange	5000	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>5K3A1D</u>	Orange	5000	± 2.00%	± 1.0 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>10K3A1A</u>	Yellow	10000	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>10K3A1B</u>	Yellow	10000	± 0.50%	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>10K3A1C</u>	Yellow	10000	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>10K3A1D</u>	Yellow	10000	± 2.00%	± 1.0 °C (0 to 70 °C)	-4.39 %/°C	3892	<u>3</u>
<u>10K4A1A</u>	Black	10000	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.04 %/°C	3575	<u>4</u>
<u>10K4A1B</u>	Black	10000	± 0.50%	± 0.2 °C (0 to 70 °C)	-4.04 %/°C	3575	<u>4</u>
<u>10K4A1C</u>	Black	10000	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.04 %/°C	3575	<u>4</u>
<u>10K4A1D</u>	Black	10000	± 2.00%	± 1.0 °C (0 to 70 °C)	-4.04 %/°C	3575	<u>4</u>
<u>30K5A1A</u>	White	30000	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.30 %/°C	3811	<u>5</u>
<u>30K5A1B</u>	White	30000	± 0.50%	± 0.2 °C (0 to 70 °C)	-4.30 %/°C	3811	<u>5</u>
<u>30K5A1C</u>	White	30000	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.30 %/°C	3811	<u>5</u>
<u>30K5A1D</u>	White	30000	± 2.00%	± 1.0 °C (0 to 70 °C)	-4.30 %/°C	3811	<u>5</u>
<u>30K6A1A</u>	Green	30000	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.68 %/°C	4143	<u>6</u>
<u>30K6A1B</u>	Green	30000	± 0.50%	± 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	<u>6</u>
<u>30K6A1C</u>	Green	30000	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.68 %/°C	4143	<u>6</u>
<u>30K6A1D</u>	Green	30000	± 2.00%	± 1.0 °C (0 to 70 °C)	-4.68 %/°C	4143	<u>6</u>
<u>50K6A1A</u>	Blue	50000	± 0.25%	± 0.1 °C (0 to 70 °C)	-4.68 %/°C	4143	<u>6</u>
<u>50K6A1B</u>	Blue	50000	± 0.50%	± 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	<u>6</u>
<u>50K6A1C</u>	Blue	50000	± 1.00%	± 0.5 °C (0 to 70 °C)	-4.68 %/°C	4143	<u>6</u>
50K6A1D	Blue	50000	± 2.00%	± 1.0 °C (0 to 70 °C)	−4.68 %/°C	4143	<u>6</u>
<u>100K6A1A</u>	Violet	100000	± 0.25%	± 0.1 °C (0 to 70 °C)	−4.68 %/°C	4143	<u>6</u>
<u>100K6A1B</u>	Violet	100000	± 0.50%	± 0.2 °C (0 to 70 °C)	−4.68 %/°C	4143	<u>6</u>
<u>100K6A1C</u>	Violet	100000	± 1.00%	± 0.5 °C (0 to 70 °C)	−4.68 %/°C	4143	<u>6</u>
<u>100K6A1D</u>	Violet	100000	± 2.00%	± 1.0 °C (0 to 70 °C)	−4.68 %/°C	4143	<u>6</u>

For details on the minimum order quantity (MOQ) of this product, please contact BetaTHERM or your local BetaTHERM representative.



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