

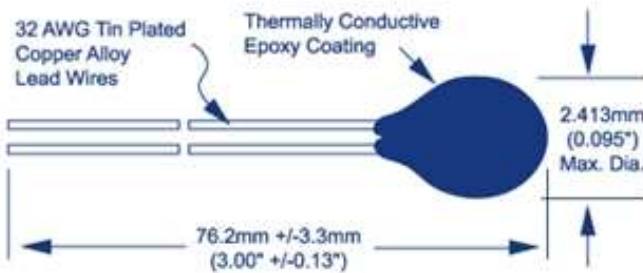
Series 6 BetaCurve Medical Grade Thermistor



Introduction

The BetaCURVE Thermistor Series VI are small epoxy coated devices with solid tin plated copper lead wires. The Series VI is specified with a temperature tolerance of $\pm 0.05^\circ\text{C}$ over the range from 32°C to 44°C and is available in different nominal resistance values. Each thermistor element is manufactured using high quality materials and processes. High accuracy temperature baths ($\pm 0.005^\circ\text{C}$) are used during all stages of assembly and final testing. This special series is offered to the Medical Industry for both new and existing applications. These devices are also useful in the pharmaceutical manufacturing equipment sector. Custom resistance values and tolerances are available upon request.

Shape and Dimensions



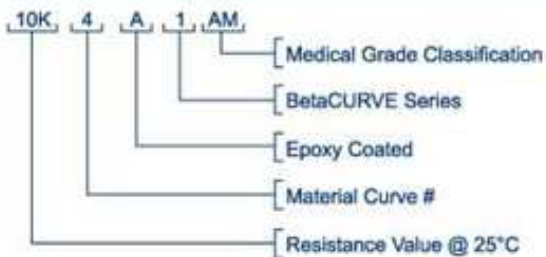
Features

- DC (Dissipation Constant) = 0.75mW/ $^\circ\text{C}$ typical in still air at 25°C .
- Available in custom probe assemblies.
- Min./Max. Temperature Exposure = -80°C to 150°C .
- Rapid Time Response (1 second typical in liquids).
- Proven Stability and Reliability.

Applications

- Esophageal Catheters.
- Oxygen sensing equipment and instruments.
- Skin sensors.
- Oral and Rectal Probes.
- Pharmaceutical manufacturing equipment.

Part Numbering System



Electrical Specifications

Part Number	Color Code	Resistance @ 25°C (Ohms)	Temperature Tolerance and Range	Alpha @ 25°C	Beta Value @ 50°C	Curve #
2.2K3A1AM	Brown	2252	$\pm 0.05^\circ\text{C}$ From 32°C to 44°C	-4.39%	3892	<u>3</u>
10K3A1AM	Yellow	10000	$\pm 0.05^\circ\text{C}$ From 32°C to 44°C	-4.39%	3892	<u>3</u>
10K4A1AM	Black	10000	$\pm 0.05^\circ\text{C}$ From 32°C to 44°C	-4.04%	3575	<u>4</u>

sales@thermalcomponents.com.au

Tel: 07 55641282; Fax: 07 55296027

www.thermalcomponents.com.au