

# Series VI Thermistors

2.2 to 10K Ohms Resistance @25°C  
Thermally Conductive Epoxy Coating  
32 AWG Alloy 180 Leads

## SERIES VI THERMISTORS

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



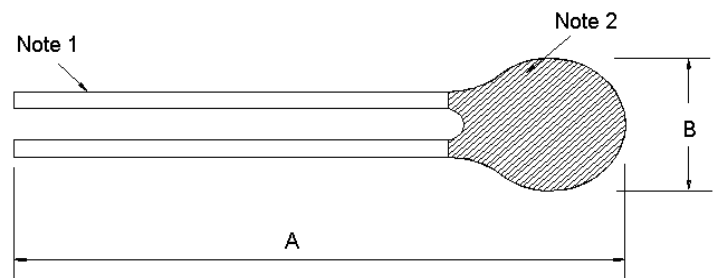
## FEATURES

- 2.2 to 10K Ohms Resistance @25°C
- Proven Stability and Reliability
- 32 AWG alloy 180 leads
- Thermally conductive epoxy coating
- Temperature range -40°C to +125°C
- RoHS Compliant

## APPLICATIONS

- Tight tolerance instrumentation
- Esophageal catheters
- Skin sensors
- Oral and rectal probes
- Pharmaceutical manufacturing equipment
- Temperature sensing, control and compensation

## Dimensions



	Dimensions	
	A	B
	76 ± 3mm	2.4mm Max
<b>Note 1</b>	32 AWG Alloy 180 Leads	
<b>Note 2</b>	Stycast 2850ft Epoxy	

# Series VI Thermistors

Part Number	Color Coding	Resistance [Ω] @ +25°C	Tolerance from +32 to +44°C	Alpha Value @ +25°C	Beta Value 25/85	Beta Tolerance	Dissipation Constant in still air @ +25°C	Time response (Stirred Oil)
<a href="#">2.2K3A1AM</a>	Brown	2,252	±0.05°C	-4.39 %/ °C	3976	±0.5%	0.75 mW/°C	<1 second
<a href="#">10K3A1AM</a>	Yellow	10,000	±0.05°C	-4.39 %/ °C	3976	±0.5%	0.75 mW/°C	<1 second
<a href="#">10K4A1AM</a>	Black	10,000	±0.05°C	-4.04 %/ °C	3694	±0.5%	0.75 mW/°C	<1 second

## Reliability data

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$	Remarks
Storage in dry heat	IEC 60068-2-2	High temperature storage @+100°C. Duration: 1000 h	<0.5%	No mechanical damage
Storage in dry heat	IEC 60068-2-2	High temperature storage @+125°C. Duration: 1000 h	<1%	No mechanical damage
Storage in damp heat, steady state	IEC60068-2-78	Ambient Conditions: Temperature: +40°C. Relative humidity 93% Duration: 56 days	<1%	No mechanical damage
Rapid temperature cycling	IEC60068-2-14	Lower test temperature: -40°C Upper test temperature: +125°C Number of cycles: 1000	<1%	No mechanical damage
Endurance		Pmax: 60mW Duration: 1000 h	<2%	No mechanical damage

## Ordering Information

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