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SERIES VI THERMISTORS

± 0.05℃ accuracy
Thermally Conductive Epoxy Coating
Ø 2.4 mm Maximum Diameter
32 AWG Alloy 180 Leads
RoHS Compliant

BetaCURVE series VI thermistors are small epoxy coated devices with solid tin plated lead wires. The series VI are specified with a temperature tolerance of +/-0.05ºC over the range from +32ºC to +44ºC and are available in different nominal resistance values.

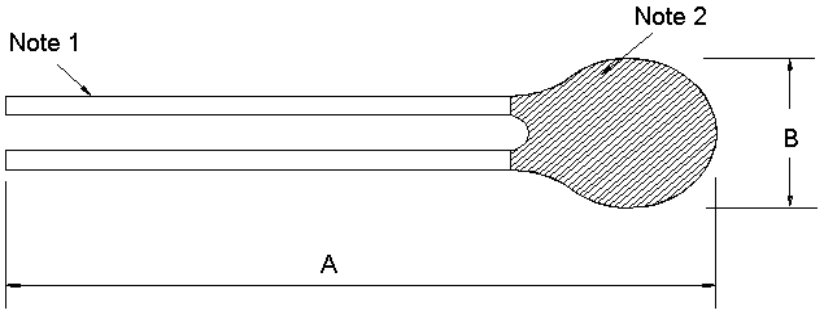
Features

- Interchangeability
- Proven stability and reliability
- Rapid time response
- Alloy lead wires for reduced thermal conductivity ("stem effect")
- Thermally conductive epoxy coating
- Temperature range -40ºC to +100℃
- Medical grade classification
- Custom probe assemblies available

Applications

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

Mechanical Details



DIMENSIONS

A	B
76 ±3 mm	2.4 mm max.

Note 1: 32 AWG Solid Alloy 180 Leads
Note 2: Stycast 2850ft Epoxy

Reliability Data

Test	Standard	Test Conditions	ΔR25/R25	Remarks
Storage in dry heat	IEC 60068-2-2	High temperature storage @+100℃. Duration: 1000 h	<0.5%	No mechanical damage
Storage in dry heat	IEC 60068-2-2	High temperature storage @+125℃ Duration: 1000 h	<1%	No mechanical damage
Storage in damp heat, steady state	IEC60068-2-78	Ambient Conditions: Temperature: +40℃ Relative humidity 93% Duration: 56 days	<1%	No mechanical damage
Rapid temperature cycling	IEC60068-2-14	Lower test temperature: -40℃ Upper test temperature: +125℃ Number of cycles: 1000	<1%	No mechanical damage
Endurance		Pmax: 60mW Duration: 1000 h	<2%	No mechanical damage

Product Details

Part Number	Color Coding	Resistance @ +25ºC	Resistance Tolerance	Tolerance Span	Beta Value 25/85	Dissipation Constant in Still Air @+25ºC	Time Response (Stirred Oil)
GA2.2K3A1AM	Brown	2,252Ω	± 0.05℃	32℃–44℃	3976	0.75 mW/ºC	<1 second
GA10K3A1AM	Yellow	10,000Ω	± 0.05℃	32℃–44℃	3976	0.75 mW/ºC	<1 second
GA10K4A1AM	Black	10,000Ω	± 0.05℃	32℃–44℃	3694	0.75 mW/ºC	<1 second

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