SERIES VI THERMISTORS

SPECIFICATIONS

- **2.2 to 10K Ohms Resistance @25ºC**
- **Thermally Conductive Epoxy Coating**
- **32 AWG Alloy 180 Leads**

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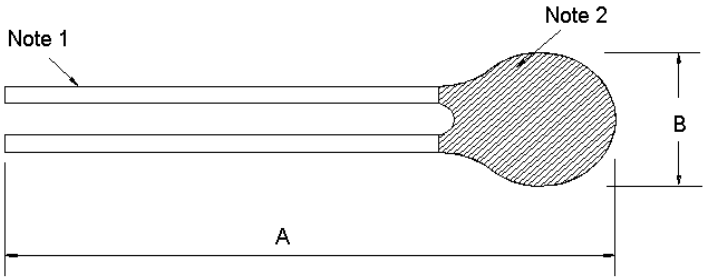
The BetaCURVE chip is soldered to 32 AWG Alloy 180 leads and encapsulated in Stycast epoxy resin

Dimensions



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

FEATURES

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

APPLICATIONS

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

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

RELIABILITY DATA

Test	Standard	Test conditions	ΔR25/R25	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

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