Moisture Resistant NTC Thermistors

5K to 1M Ohms Resistance @25ºC
Climatic Category (IEC 60068-1) 40/125/56
Proven Stability and Reliability
Kynar Insulated Lead Wires

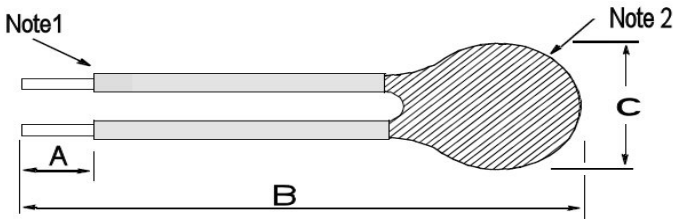
MOISTURE RESISTANT THERMISTOR

The BetaCURVE Chip is Soldered to 30 AWG Solid Silver Plated Nickel Leads with Black Kynar Insulation. Device is Encapsulated in Epoxy Resin.

FEATURES

- 5 to 1M Ohms Resistance @25ºC
- Proven Stability and Reliability
- Rapid Time Response
- 30AWG Solid Silver Plated Nickel Leads with Black Kynar Insulation
- Temperature range -40ºC to +125ºC
- RoHS Compliant

Dimensions



	Dimensions		
	A	B	C
	5 ± 1mm	50 ± 3mm	2.5mm Max
Note 1	30AWG Solid Silver Plated Nickel Leads with Black Kynar Insulation		
Note 2	Epoxy Resin		

APPLICATIONS

- Temperature sensing in environments where thermal shock and humidity are present
- Fire Detection Systems
- Refrigeration control
- Air conditioning systems
- Assembly into probes for a wide variety of applications

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Stability

Reliability Tests	Standard	Test Condition	Delta R
Storage in Dry Heat	IEC 60068-2-2	Storage temperature: +125°C Duration: 1000 hours	< 3%
Storage at Low Temperature	IEC 60068-2-1	Temperature of air is -40°C Duration: 1000 hours	< 3%
Storage in Damp Heat	IEC 60068-2-3	Temperature of air is 40°C & RH 93% Duration: 56 days.	< 2%
Rapid Temperature Cycling	IEC 60068-2-14	Lower Test Temperature -40°C Upper Test Temperature +125°C Number of Cycles 1000	< 2%

Product Definition

Part Number	Resistance [Ω] @ +25ºC	Tolerance @ +25ºC	Beta Value 25/85	Beta Tolerance	Dissipation Constant (Still Air @ +25 ºC)	T.C. Constant (Stirred Liquid)	Operating Temperature
5K3MR1I	5,000	± 1%	3976	± 2%	1.5 mW/ ºC	2 second	-40º to +125ºC
10K3MR1I	10,000	± 1%	3976	± 2%	1.5 mW/ ºC	2 second	-40º to +125ºC
30K5MR1I	30,000	± 1%	3942	± 2%	1.5 mW/ ºC	2 second	-40º to +125ºC
100K6MR1I	100,000	± 1%	4261	± 2%	1.5 mW/ ºC	2 second	-40º to +125ºC
1M9MR1I	1,000,000	± 1%	4799	± 2%	1.5 mW/ ºC	2 second	-40º to +125ºC

Ordering Information