

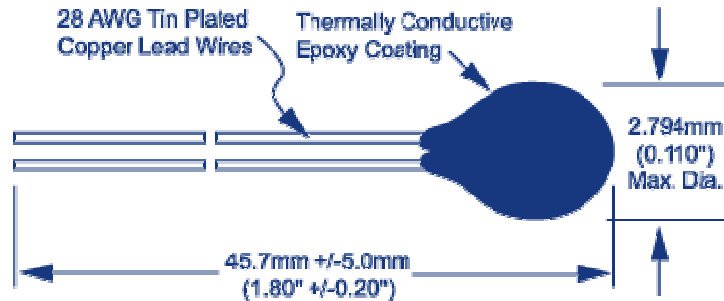
BetaCURVE Thermistor – Series IV

Introduction



BetaTherm Thermistor Series IV provides a higher Dissipation Constant (3.0mW/°C) allowing design engineers greater flexibility on sensor design projects. The higher D.C. is achieved using 28 AWG tin plated copper lead wires and also larger chip thermistor elements. These chip elements are manufactured using the same high quality materials and manufacturing process as Series I. Custom resistance values and tolerances are available upon request.

Shape and Dimensions



Features

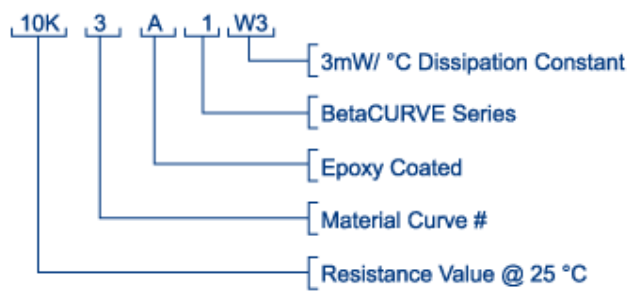
- Rapid Time Response (1.5 seconds typical in liquids).
- DC (Dissipation Constant) = 3.0mW/°C typical in still air at 25°C.
- Min./Max. Temperature Exposure = -80°C to 150°C.
- Available in custom probe assemblies.
- Proven Stability and Reliability.

Applications

- Temperature sensing, control and compensation.
- Applications where a Dissipation Constant of 3.0 mW/°C is required.



Part Numbering System



Electrical Specifications

Part Number	Color Code	Resistance @ 25°C (Ohms)	Temperature Tolerance & Range	Alpha @ 25°C	0/50 °C Beta Value	Curve #
2.2K3A1W3	Brown	2252	± 0.2 °C (0 to 70°C)	-4.39 %/°C	3892	3
3K3A1W3	Red	3000	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
5K3A1W3	Orange	5000	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K3A1W3	Yellow	10000	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K4A1W3	Black	10000	± 0.2 °C (0 to 70 °C)	-4.04 %/°C	3575	4
30K5A1W3	White	30000	± 0.2 °C (0 to 70 °C)	-4.30 %/°C	3811	5
30K6A1W3	Green	30000	± 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6
50K6A1W3	Blue	50000	± 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6
100K6A1W3	Violet	100000	± 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6

For details on the minimum order quantity (MOQ) of this product, please contact BetaTHERM Sensors or your local BetaTHERM Sensors representative