

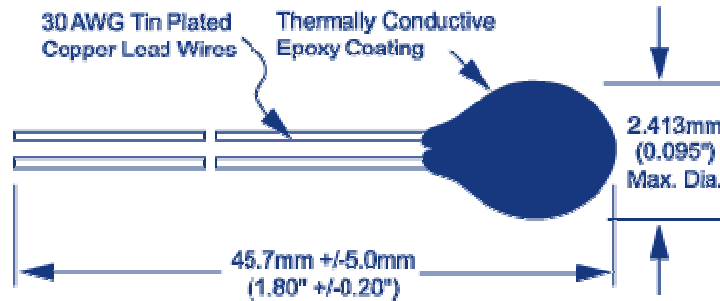
BetaCURVE Thermistor – Series III

Introduction



BetaCURVE Thermistor Series III are similar in construction to Series I except for the use of larger (30 AWG) copper leads. This allows the Dissipation Constant (D.C.) to be raised from 0.75mW/°C to 2.0mW/°C. Larger leads also facilitate easier handling during assembly operations. The Thermal Time Constant is raised to 14 seconds in air. Custom resistance values and tolerances are available upon request.

Shape and Dimensions



Features

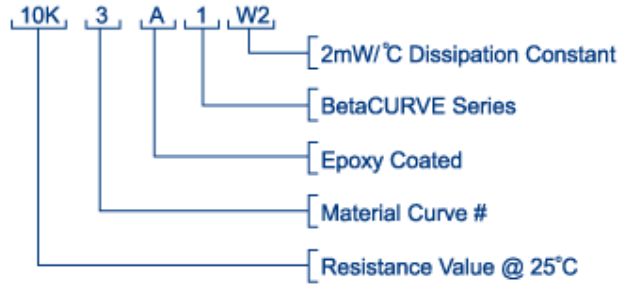
- Rapid Time Response (1.3 seconds typical in liquids).
- DC (Dissipation Constant) = 2.0mW/°C typical in still air at 25°C.
- Min./Max. Temperature Exposure = -80°C to 150°C.
- Available in custom probe assemblies.
- Proven Stability and Reliability.
- Larger lead wires ease assembly requirements.

Applications

- Temperature sensing, control and compensation.
- Applied to applications where higher Dissipation Constant is required (2.0mW/°C).



Part Numbering System



Electrical Specifications						
Part Number	Color Code	Resistance @ +25°C Ω	Temperature Tolerance & Range	Alpha @ 25°C	0/50 °C Beta Value	Curve #
2.2K3A1W2	Brown	2252	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
3K3A1W2	Red	3000	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
5K3A1W2	Orange	5000	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K3A1W2	Yellow	10000	± 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K4A1W2	Black	10000	± 0.2 °C (0 to 70 °C)	-4.04 %/°C	3575	4
30K5A1W2	White	30000	± 0.2 °C (0 to 70 °C)	-4.30 %/°C	3811	5
30K6A1W2	Green	30000	± 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6
50K6A1W2	Blue	50000	± 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6
100K6A1W2	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