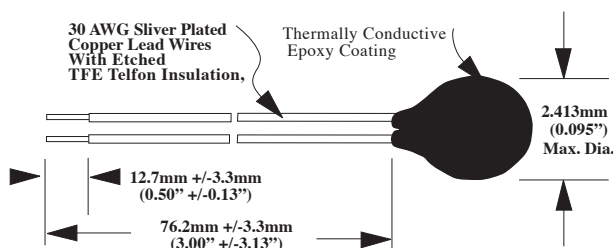
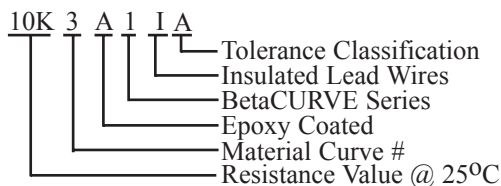




Thermistor Configuration



Example: BetaCURVE Series II Part Number



BetaCurve Interchangeable Thermistor Series II

Applications

- Temperature sensing, control and compensation.
- P.C. board mounting for over temperature protection.
- Automotive car seat heater control and engine management.
- Assembly into probes for a wide variety of applications in industrial temperature control and instrumentation.

Features

- Rapid Time Response (1 second typical in liquids).
- DC (Dissipation Constant) = 0.85mW/ °C typical in still air at 25°C.
- Min./Max. Temperature Exposure = -80 to 150°C.
- Available in custom probe assemblies.
- Proven Stability and Reliability.
- Teflon Insulated lead wires.
- Choice of 4 temperature tolerance classifications:

Tolerance Code:	Specification:
A	+/-0.1°C, 0°C to 70°C
B	+/-0.2°C, 0°C to 70°C
C	+/-0.5°C, 0°C to 70°C
D	+/-1.0°C, 0°C to 70°C

Similar to the *BetaCURVE Thermistor Series I*, the *Series II* thermistors are small epoxy coated devices. The same quality thermistor elements are used during assembly. Series II are manufactured using 30 AWG teflon insulated lead wires. They offer the same choice of precision temperature tolerance classifications for a wide variety of customer applications.

The *Series II* differs from *Series I* marginally with respect to D.C. The typical value of 0.85mW/°C in still air at 25°C is due to the larger lead wire diameter made of pure copper.

The insulated lead wires offer customers the added protection of TFE teflon insulation that has the highest temperature rating (150°C) of the most common insulating materials. TFE teflon is a material that does not bond easily with epoxies or adhesives. For this reason the surface of the teflon wire is etched, which enhances bondability for applications that require mounting or potting the thermistor with epoxies or adhesives.

The series is produced in high volume as a Standard configuration. Other configurations are available on a custom basis. Larger or smaller lead wires can be used with the same chip elements and with insulating materials of PVC, Kynar, Tefzel, Nylon/Polyurethane, etc. Contact Applications Engineering Group for support if requirements differ from the standard configuration as shown above.

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url: www.beta.dk, www.beata.se, www.betafinland.fi, www.betatherm.com

BetaCURVE Series II Part Numbers and Specifications:

Part Number	Color Code	Resistance ohms @ 25°C	Resistance Tolerance@ 25°C	Temperature Tolerance and Range	Alpha @ 25°C	0/50 °C Beta Value	Curve #
2.2K3A1IA	Brown	2252	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	3
2.2K3A2IB	Brown	2252	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
2.2K3A3IC	Brown	2252	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	3
2.2K3A4ID	Brown	2252	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.39 %/°C	3892	3
3K3A1IA	Red	3000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	3
3K3A1IB	Red	3000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
3K3A1IC	Red	3000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	3
3K3A1ID	Red	3000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.39 %/°C	3892	3
5K3A1IA	Orange	5000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	3
5K3A1IB	Orange	5000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
5K3A1IC	Orange	5000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	3
5K3A1ID	Orange	5000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K3A1IA	Yellow	10000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K3A1IB	Yellow	10000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K3A1IC	Yellow	10000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K3A1ID	Yellow	10000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.39 %/°C	3892	3
10K4A1IA	Black	10000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.04 %/°C	3575	4
10K4A1IB	Black	10000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.04 %/°C	3575	4
10K4A1IC	Black	10000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.04 %/°C	3575	4
10K4A1ID	Black	10000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.04 %/°C	3575	4
30K5A1IA	White	30000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.30 %/°C	3811	5
30K5A1IB	White	30000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.30 %/°C	3811	5
30K5A1IC	White	30000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.30 %/°C	3811	5
30K5A1ID	White	30000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.30 %/°C	3811	5
30K6A1IA	Green	30000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.68 %/°C	4143	6
30K6A1IB	Green	30000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6
30K6A1IC	Green	30000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.68 %/°C	4143	6
30K6A1ID	Green	30000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.68 %/°C	4143	6
50K6A1IA	Blue	50000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.68 %/°C	4143	6
50K6A1IB	Blue	50000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6
50K6A1IC	Blue	50000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.68 %/°C	4143	6
50K6A1ID	Blue	50000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.68 %/°C	4143	6
100K6A1IA	Violet	100000	+/- 0.25%	+/- 0.1 °C (0 to 70 °C)	-4.68 %/°C	4143	6
100K6A1IB	Violet	100000	+/- 0.50%	+/- 0.2 °C (0 to 70 °C)	-4.68 %/°C	4143	6
100K6A1IC	Violet	100000	+/- 1.00%	+/- 0.5 °C (0 to 70 °C)	-4.68 %/°C	4143	6
100K6A1ID	Violet	100000	+/- 2.00%	+/- 1.0 °C (0 to 70 °C)	-4.68 %/°C	4143	6

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