

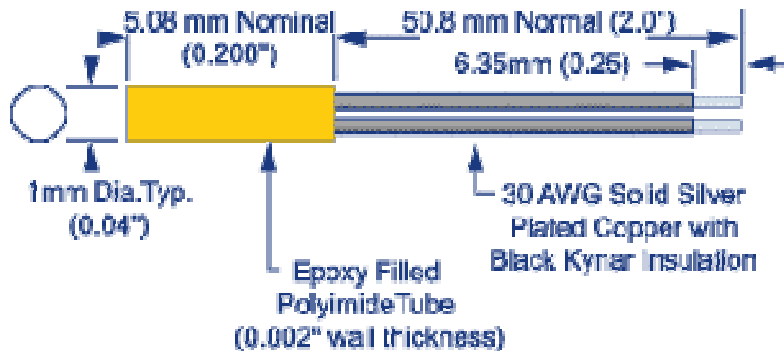
**Mini BetaCURVE Probe (MBD)**

**Introduction**



The mini-BetaCURVE Probe is an extension of the BetaCURVE Series for applications that require smaller size. Although the mini-BetaCURVE Probe is packaged in polyimide tubing it is recommended that a moisture protection barrier should be used in applications where high humidity is present. The probes relatively small size allows for high precision sensing where the standard BetaCURVE series products are too large or too slow with respect to their thermal Time Constant. The size is compatible with mounting in stainless steel probe housings that have a nominal outside diameter of 1.524mm(0.06").

**Shape and Dimensions**



**Features**

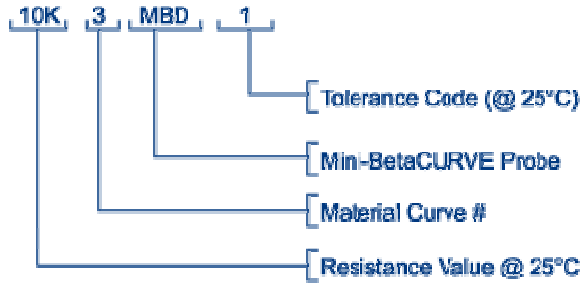
- Rapid Time Constant (400 milliseconds in liquids).
- Standards supplied with  $\pm 0.2^\circ\text{C}$  tolerance (0 to  $70^\circ\text{C}$ ).
- Other tolerances available.
- 0.5 mW/ $^\circ\text{C}$  typ. Dissipation Constant in air at  $25^\circ\text{C}$ .
- Smaller than regular BetaCURVE Series.

**Applications**

- Reduced size allows localised temperature sensing.
- Small Medical probes.
- Micro-flow sensing.
- Aerospace temperature sensing.



**Part Numbering System**



**Electrical Specifications**

Part Number	Resistance @ 25°C (ohms)	Alpha @ 25°C	0/50°C Beta Value	Curve
<a href="#"><u>2.2K3MBD1</u></a>	2252	-4.39%	3892	<a href="#"><u>3</u></a>
<a href="#"><u>3K3MBD1</u></a>	3000	-4.39%	3892	<a href="#"><u>3</u></a>
<a href="#"><u>5K3MBD1</u></a>	5000	-4.39%	3892	<a href="#"><u>3</u></a>
<a href="#"><u>10K3MBD1</u></a>	10000	-4.39%	3892	<a href="#"><u>3</u></a>
<a href="#"><u>10K4MBD1</u></a>	10000	-4.04%	3575	<a href="#"><u>4</u></a>
<a href="#"><u>30K5MBD1</u></a>	30000	-4.30%	3811	<a href="#"><u>5</u></a>
<a href="#"><u>30K6MBD1</u></a>	30000	-4.68%	4143	<a href="#"><u>6</u></a>
<a href="#"><u>50K6MBD1</u></a>	50000	-4.68%	4143	<a href="#"><u>6</u></a>
<a href="#"><u>100K6MBD1</u></a>	100000	-4.68%	4143	<a href="#"><u>6</u></a>
<a href="#"><u>1M9MBD1</u></a>	1000000	-5.18%	4582	<a href="#"><u>9</u></a>

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