

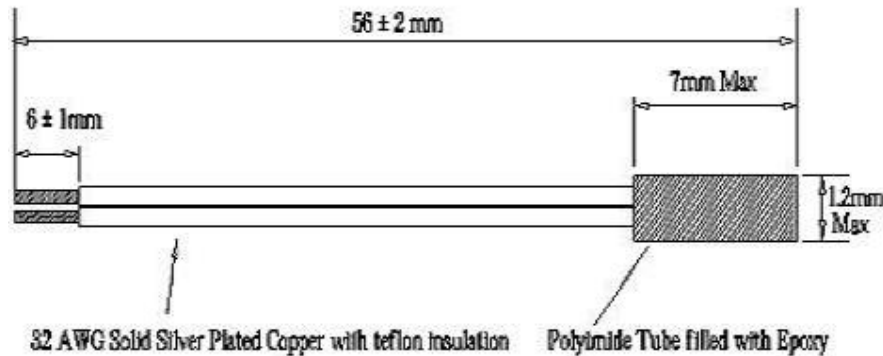
Mini BetaCURVE Probe (MRBD)

Introduction

This Mini BetaCURVE Probe (MRBD) NTC sensor is the perfect choice for applications that require performance and stability in high humidity conditions.

The probes relatively small size (1.2 mm OD) allows for high precision temperature sensing and measurement in specialist fields such as the Medical and Instrumentation markets.

Shape and Dimensions



Features

- High degree of resistance to moisture and high humidity environments (Standard IEC 60068-2-3. Storage in Damp Heat, Air temperature @ +50°C, Relative Humidity 95% for 56 Days). Delta R @ +25°C <1%).
- Fast time response probe assembly (400 milliseconds in liquids).
- Operating temperature range from -40°C to +100°C
- Available with a ±0.2°C Tolerance (0°C to +70°C).
- Smaller than regular BetaCURVE interchangeable Series.
- Suitable for encapsulation into small housings or specialist enclosures.

Applications

- Reduced size allows rapid temperature sensing
- Small Biomedical probes and catheter assemblies
- Micro-flow sensing
- Instrumentation and specialist probes
- Temperature monitoring in Communication systems



Electrical Specifications						
Part Number	Resistance @ +25°C (Ohms)	Tolerance from 0°C to +70°C	Beta Value	Beta Tolerance	Dissipation Constant (Still Air @ +25°C)	T.C. Constant (Stirred Oil)
2.2K3MRBD1	2252	± 0.2°C	3976	± 0.5°C	0.5 mW/°C Typ.	0.4 Seconds
3K3MRBD1	3000	± 0.2°C	3976	± 0.5°C	0.5 mW/°C Typ.	0.4 Seconds
5K3MRBD1	5000	± 0.2°C	3976	± 0.5°C	0.5 mW/°C Typ.	0.4 Seconds
10K3MRBD1	10000	± 0.2°C	3976	± 0.5°C	0.5 mW/°C Typ.	0.4 Seconds
100K6MRBD1	100000	± 0.2°C	4261	± 0.5°C	0.5 mW/°C Typ.	0.4 Seconds

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