



HIGH HUMIDITY ENVIRONMENTS MINI PROBE (MRBD)

SPECIFICATIONS

- 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)
- Smaller than regular BetaCURVE Interchangeable Series
- Fast time response
- Suitable for encapsulation into small housings or special enclosures
- Various lead lengths available

NTC Thermistor soldered to 32 AWG Solid Silver Plated Copper Wire with PTFE Insulation. Unit is potted in a polyimide tube with thermally conductive epoxy.

FEATURES

 High degree of resistance to moisture and high humidity environments (Standard IEC 60068-2-3)

Rapid Time Constant

(400 milliseconds in liquids).

Standards supplied with \pm 0.2°C tolerance (0°C to +70°C).

Custom tolerances available on request Temperature range -40°C to +100°C

APPLICATIONS

Reduced size allows localized and rapid temperature sensing

 Small Biomedical probes and catheter assemblies

Temperature monitoring in Communication systems

Micro-flow sensing

• Instrumentation and specialist probes

PERFORMANCE SPECS

Parameters	Units	Value	
Nominal Resistance at +25°C	Ohms	10000	
Resistance tolerance from 0°C to +70°C	°C	± 0.2	
Alpha Value at +25°C	%/°C	- 4.39	
Beta Value 25/85	K	3976	
Tolerance on Beta Value 25/85	%	± 0.5	
Time response in Liquids	milliseconds	400	
Dissipation Constant in still air	mW/°C	0.5	

MECHANICAL DETAILS

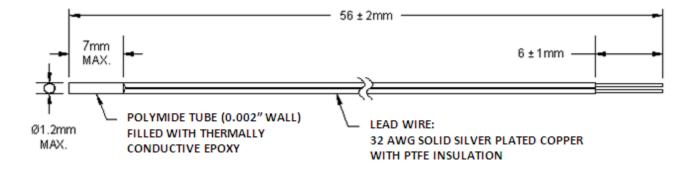


Figure 1: Mini BetaCURVE Thermistor Probe (MRBD) - High Humidity environments

RESISTANCE V TEMPERATURE TABLE

RESISTANCE V TE				
Temp. °C	Ohms			
-40	336,109			
-39	314,563			
-38	294,534			
-37	275,905			
-36	258,571			
-35	242,434			
-34	227,404			
-33	213,399			
-32	200,344			
-31	188,168			
-30	176,807			
-29	166,202			
-28	156,298			
-27	147,045			
-26	138,396			
-25	130,309			
-24	122,743			
-23	115,663			
-22	109,034			
-21	102,825			
-20	97,008			
-19	91,554			
-18	86,440			
-17	81,642			
-16	77,139			
-15	72,912			
-14	68,941			
-13	65,210			
-12	61,703			
-11	58,406			
-10	55,304			
-9	52,385			
-8	49,638			
-7	47,051			
-6	44,614			
-5	42,317			
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RATURE TABLE			
Temp. °C Ohms			
-4	40,152		
-3	38,110		
-2	36,184		
-1	34,367		
0	32,651		
1	31,031		
2	29,501		
3	28,054		
4	26,688		
5	25,395		
6	24,173		
7	23,016		
8	21,921		
9	20,885		
10	19,903		
11	18,973		
12	18,092		
13	17,257		
14	16,465		
15	15,714		
16	15,001		
17	14,325		
18	13,682		
19	13,073		
20	12,493		
21	11,943		
22	11,420		
23	10,923		
24	10,450		
25	10,000		
26	9,572		
27	9,165		
28	8,777		
29	8,408		
30	8,056		

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Temp. °C	Ohms	
31	7,721	
32	7,402	
33	7,097	
34	6,807	
35	6,530	
36	6,266	
37	6,014	
38	5,774	
39	5,544	
40	5,325	
41	5,116	
42	4,916	
43	4,724	
44	4,542	
45	4,367	
46	4,200	
47	4,040	
48	3,887	
49	3,741	
50	3,601	
51	3,467	
52	3,339	
53	3,216	
54	3,098	
55	2,985	
56	2,877	
57	2,773	
58	2,674	
59	2,579	
60	2,487	
61	2,399	
62	2,315	
63	2,234	
64	2,157	
65	2,082	

Temp. °C	Ohms	
66	2,011	
67	1,942	
68	1,876	
69	1,813	
70	1,752	
71	1,693	
72	1,637	
73	1,582	
74	1,530	
75	1,480	
76	1,432	
77	1,385	
78	1,341	
79	1,298	
80	1,256	
81	1,216	
82	1,178	
83	1,141	
84	1,105	
85	1,070	
86	1,037	
87	1,005	
88	974	
89	945	
90	916	
91	888	
92	862	
93	836	
94	811	
95	787	
96	764	
97	741	
98	720	
99	699	
100	678	

HIGH HUMIDITY ENVIRONMENTS MINI PROBE (MRBD)

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3MRBD1	Mini BetaCurve Thermistor Probe (MRBD)	10000	1000 *

^{*} For quantities less than Minimum Order Quantity - contact distribution

NORTH AMERICA

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