



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 $\pm 0.2^{\circ}\text{C}$ tolerance
(0°C to $+70^{\circ}\text{C}$).
- Custom tolerances available on request
- Temperature range -40°C to $+100^{\circ}\text{C}$

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 $+25^{\circ}\text{C}$	Ohms	10000
Resistance tolerance from 0°C to $+70^{\circ}\text{C}$	$^{\circ}\text{C}$	± 0.2
Alpha Value at $+25^{\circ}\text{C}$	$\%/^{\circ}\text{C}$	- 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	$\text{mW}/^{\circ}\text{C}$	0.5

MECHANICAL DETAILS

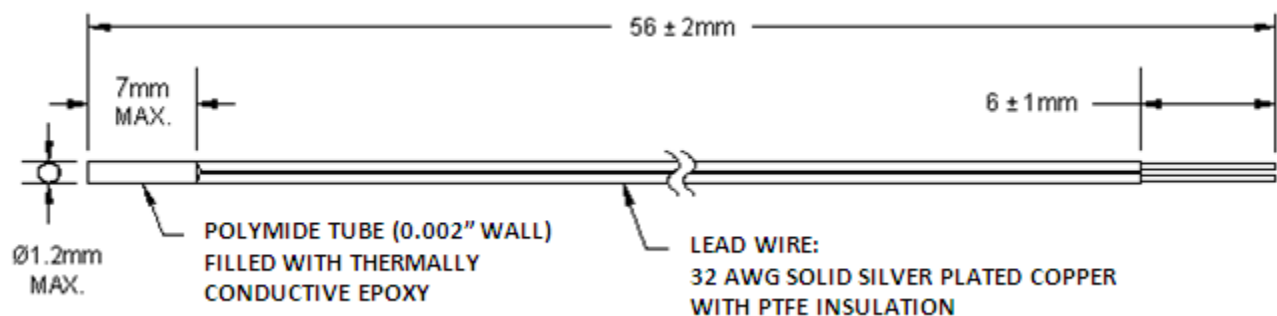


Figure 1: Mini BetaCURVE Thermistor Probe (MRBD) – High Humidity environments

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	336,109	-4	40,152	31	7,721	66	2,011
-39	314,563	-3	38,110	32	7,402	67	1,942
-38	294,534	-2	36,184	33	7,097	68	1,876
-37	275,905	-1	34,367	34	6,807	69	1,813
-36	258,571	0	32,651	35	6,530	70	1,752
-35	242,434	1	31,031	36	6,266	71	1,693
-34	227,404	2	29,501	37	6,014	72	1,637
-33	213,399	3	28,054	38	5,774	73	1,582
-32	200,344	4	26,688	39	5,544	74	1,530
-31	188,168	5	25,395	40	5,325	75	1,480
-30	176,807	6	24,173	41	5,116	76	1,432
-29	166,202	7	23,016	42	4,916	77	1,385
-28	156,298	8	21,921	43	4,724	78	1,341
-27	147,045	9	20,885	44	4,542	79	1,298
-26	138,396	10	19,903	45	4,367	80	1,256
-25	130,309	11	18,973	46	4,200	81	1,216
-24	122,743	12	18,092	47	4,040	82	1,178
-23	115,663	13	17,257	48	3,887	83	1,141
-22	109,034	14	16,465	49	3,741	84	1,105
-21	102,825	15	15,714	50	3,601	85	1,070
-20	97,008	16	15,001	51	3,467	86	1,037
-19	91,554	17	14,325	52	3,339	87	1,005
-18	86,440	18	13,682	53	3,216	88	974
-17	81,642	19	13,073	54	3,098	89	945
-16	77,139	20	12,493	55	2,985	90	916
-15	72,912	21	11,943	56	2,877	91	888
-14	68,941	22	11,420	57	2,773	92	862
-13	65,210	23	10,923	58	2,674	93	836
-12	61,703	24	10,450	59	2,579	94	811
-11	58,406	25	10,000	60	2,487	95	787
-10	55,304	26	9,572	61	2,399	96	764
-9	52,385	27	9,165	62	2,315	97	741
-8	49,638	28	8,777	63	2,234	98	720
-7	47,051	29	8,408	64	2,157	99	699
-6	44,614	30	8,056	65	2,082	100	678
-5	42,317						

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

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