



GA10K3MCD1 MICRO BetaCHIP (MCD) THERMISTOR PROBES

2K to 100K Ohms Resistance @25°C

0.2°C Tolerance from @ 25°C

Thermally Conductive Epoxy Coating

38 AWG Solid Nickel Bifilar with Polyester Type Insulation

Fast Time Response

Small Tip Diameter

RoHS Compliant

Micro BetaCHIP (MCD) thermistor probes are suited for applications that require rapid temperature response and where space is limited. These NTC thermistors are potted in a polyimide tube with a thermally conductive epoxy.

FEATURES

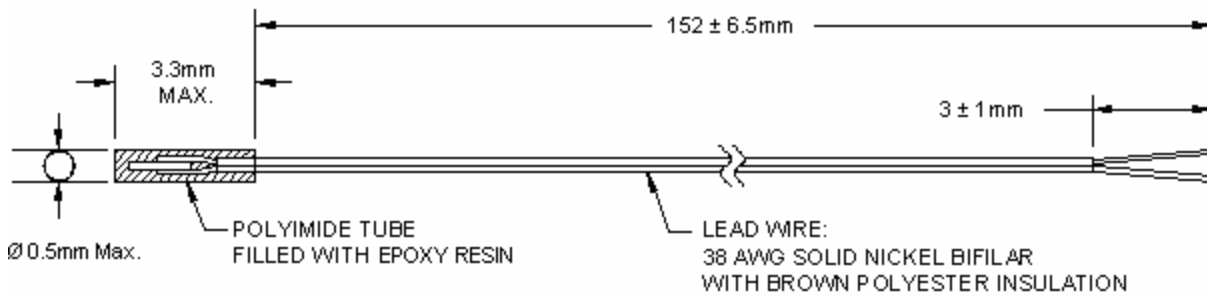
- $\pm 0.2^\circ\text{C}$ tolerance @ +25°C
- Custom tolerances available
- Smaller than miniature BetaCURVE devices
- Rapid time response (200 milliseconds in liquids)
- Temperature range -40°C to +125°C

APPLICATIONS

- Low volume flow sensors (liquids or gases)
- Laboratory animal research
- Peltier temperature tracking sensors
- Temperature control for bath showers
- DNA research sensors
- Medical catheters

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MECHANICAL DETAILS



PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
Resistance Tolerance at +25°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	200
Dissipation Constant in Still Air	mW/°C	0.3

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	336103	1	31030.8	42	4915.6	83	1140.6
-39	314558	2	29500.5	43	4724.4	84	1104.9
-38	294529	3	28054.4	44	4541.7	85	1070.5
-37	275901	4	26687.5	45	4367	86	1037.3
-36	258567	5	25395	46	4200	87	1005.3
-35	242430	6	24172.5	47	4040.2	88	974.4
-34	227401	7	23015.9	48	3887.4	89	944.7
-33	213397	8	21921.2	49	3741.1	90	916
-32	200341	9	20884.7	50	3601.1	91	888.3
-31	188166	10	19903.2	51	3467	92	861.5
-30	176805	11	18973.3	52	3338.7	93	835.8
-29	166200	12	18092.2	53	3215.8	94	810.9
-28	156296	13	17256.9	54	3098	95	786.8
-27	147043	14	16464.9	55	2985.2	96	763.6
-26	138395	15	15713.7	56	2877	97	741.2
-25	130308	16	15000.9	57	2773.3	98	719.6
-24	122742	17	14324.5	58	2673.9	99	698.6
-23	115662	18	13682.3	59	2578.6	100	678.4
-22	109033	19	13072.6	60	2487.1	101	658.9
-21	102825	20	12493.3	61	2399.4	102	640
-20	97006.9	21	11943	62	2315.2	103	621.8
-19	91553.3	22	11419.9	63	2234.4	104	604.2
-18	86439.2	23	10922.7	64	2156.8	105	587.1
-17	81641.4	24	10449.8	65	2082.3	106	570.6
-16	77138.6	25	10000	66	2010.8	107	554.6
-15	72911.1	26	9572	67	1942.1	108	539.2
-14	68940.4	27	9164.7	68	1876	109	524.3
-13	65209.7	28	8777	69	1812.6	110	509.8
-12	61702.9	29	8407.7	70	1751.6	111	495.9
-11	58405.5	30	8056.1	71	1693	112	482.3
-10	55303.9	31	7721	72	1636.6	113	469.2
-9	52385.2	32	7401.7	73	1582.4	114	456.5
-8	49637.8	33	7097.3	74	1530.2	115	444.2
-7	47050.6	34	6807.1	75	1480.1	116	432.3
-6	44613.4	35	6530.3	76	1431.8	117	420.8
-5	42316.7	36	6266.2	77	1385.3	118	409.7
-4	40151.6	37	6014.3	78	1340.6	119	398.8
-3	38110	38	5773.8	79	1297.5	120	388.4
-2	36184	39	5544.2	80	1256.1	121	378.2
-1	34366.6	40	5325	81	1216.1	122	368.3
0	32650.9	41	5115.6	82	1177.7	123	358.8
						124	349.5
						125	340.6

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA10K3MCD1	Micro BetaCHIP thermistor probe (MCD)	10,000	1,000

* For quantities less than MOQ (Minimum Order Quantity) contact distribution

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