



GA100K6MCD1 MICRO BetaCHIP (MCD) THERMISTOR PROBES

100K Ohms Resistance @25°C

0.2°C Tolerance @ 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.

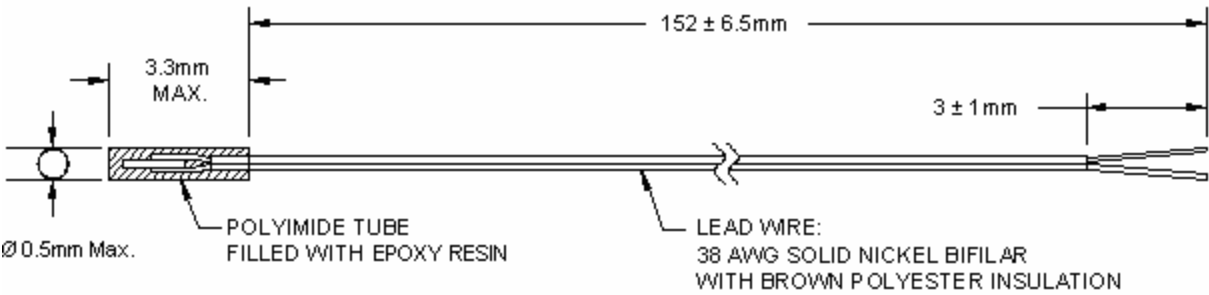
FEATURES

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

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

MECHANICAL DETAILS



PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	100,000
Resistance Tolerance at +25°C	°C	± 0.2
Alpha Value at +25°C	%/°C	-4.39
Beta Value 25/85	K	4261
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	4071186	2	315288	44	43073	86	8816
-39	3798837	3	298954	45	41303	87	8523
-38	3546330	4	283555	46	39615	88	8241
-37	3312107	5	269034	47	38005	89	7970
-36	3094743	6	255335	48	36467	90	7708
-35	2892930	7	242408	49	35000	91	7457
-34	2705469	8	230206	50	33599	92	7215
-33	2531260	9	218684	51	32262	93	6982
-32	2369292	10	207801	52	30984	94	6758
-31	2218639	11	197518	53	29763	95	6541
-30	2078448	12	187799	54	28596	96	6333
-29	1947934	13	178610	55	27481	97	6132
-28	1826376	14	169921	56	26415	98	5939
-27	1713112	15	161700	57	25395	99	5753
-26	1607529	16	153921	58	24420	100	5573
-25	1509065	17	146558	59	23487	101	5400
-24	1417202	18	139586	60	22594	102	5232
-23	1331461	19	132983	61	21740	103	5071
-22	1251401	20	126727	62	20922	104	4916
-21	1176615	21	120799	63	20138	105	4766
-20	1106727	22	115179	64	19388	106	4621
-19	1041391	23	109850	65	18670	107	4481
-18	980285	24	104795	66	17981	108	4346
-17	923112	25	100000	67	17322	109	4216
-16	869600	26	95449	68	16689	110	4090
-15	819493	27	91129	69	16083	111	3969
-14	772557	28	87027	70	15502	112	3852
-13	728575	29	83131	71	14945	113	3738
-12	687344	30	79430	72	14410	114	3629
-11	648680	31	75913	73	13897	115	3523
-10	612407	32	72569	74	13405	116	3421
-9	578366	33	69390	75	12932	117	3322
-8	546408	34	66367	76	12478	118	3227
-7	516394	35	63491	77	12043	119	3134
-6	488196	36	60755	78	11625	120	3045
-5	461695	37	58150	79	11223	121	2959
-4	436779	38	55670	80	10837	122	2875
-3	413346	39	53309	81	10466	123	2794
-2	391300	40	51060	82	10109	124	2716
-1	370551	41	48917	83	9767	125	2640
0	351017	42	46875	84	9437		
1	332620	43	44929	85	9121		

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA100K6MCD1	Micro BetaCHIP thermistor probe (MCD)	100,000	1,000

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

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