



GA2K7MCD1 MICRO BetaCHIP (MCD) THERMISTOR PROBES

2K to 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

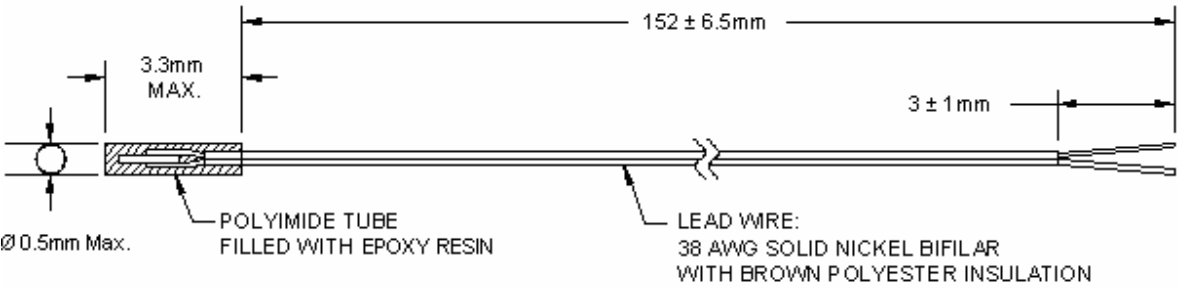
- $\pm 0.2^{\circ}\text{C}$ tolerance @ $+25^{\circ}\text{C}$
- Custom tolerances available
- Smaller than miniature BetaCURVE devices
- Rapid time response (200 milliseconds in liquids)
- Temperature range -40°C to $+125^{\circ}\text{C}$

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

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MECHANICAL DETAILS



PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	2,000
Resistance Tolerance at +25°C	°C	± 0.2
Alpha Value at +25°C	%/°C	-3.87
Beta Value 25/85	K	3499
Tolerance on Beta Value 25/85	%	± 0.5
Time Response in Liquids	milliseconds	200
Dissipation Constant in Still Air	mW/°C	0.3

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RESISTANCE V TEMPERATURE TABLE DETAILS

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	43,423.10	4	4,734.20	48	871.5	92	231.2
-39	40,984.00	5	4,532.50	49	842.6	93	225.1
-38	38,697.10	6	4,340.50	50	814.8	94	219.2
-37	36,552.00	7	4,157.80	51	788	95	213.4
-36	34,539.10	8	3,983.80	52	762.3	96	207.9
-35	32,649.50	9	3,818.00	53	737.5	97	202.5
-34	30,874.90	10	3,660.10	54	713.7	98	197.3
-33	29,207.70	11	3,509.60	55	690.8	99	192.2
-32	27,640.80	12	3,366.20	56	668.7	100	187.3
-31	26,167.50	13	3,229.40	57	647.4	101	182.5
-30	24,781.80	14	3,098.90	58	627	102	177.9
-29	23,478.00	15	2,974.40	59	607.2	103	173.4
-28	22,250.60	16	2,855.60	60	588.2	104	169.1
-27	21,094.90	17	2,742.30	61	569.9	105	164.9
-26	20,006.20	18	2,634.00	62	552.3	106	160.8
-25	18,980.40	19	2,530.70	63	535.3	107	156.8
-24	18,013.30	20	2,431.90	64	518.9	108	153
-23	17,101.30	21	2,337.60	65	503.1	109	149.2
-22	16,241.00	22	2,247.40	66	487.8	110	145.6
-21	15,429.10	23	2,161.20	67	473.1	111	142.1
-20	14,662.70	24	2,078.80	68	458.9	112	138.6
-19	13,938.90	25	2,000.00	69	445.2	113	135.3
-18	13,255.20	26	1,924.60	70	432	114	132.1
-17	12,609.10	27	1,852.50	71	419.2	115	128.9
-16	11,998.30	28	1,783.40	72	406.9	116	125.9
-15	11,420.80	29	1,717.30	73	395	117	122.9
-14	10,874.40	30	1,654.00	74	383.5	118	120
-13	10,357.40	31	1,593.40	75	372.4	119	117.2
-12	9,868.10	32	1,535.30	76	361.7	120	114.5
-11	9,404.70	33	1,479.70	77	351.4	121	111.9
-10	8,965.90	34	1,426.40	78	341.3	122	109.3
-9	8,550.00	35	1,375.30	79	331.7	123	106.8
-8	8,155.90	36	1,326.20	80	322.3	124	104.4
-7	7,782.30	37	1,279.20	81	313.3	125	102
-6	7,427.90	38	1,234.20	82	304.5		
-5	7,091.80	39	1,190.90	83	296		
-4	6,772.80	40	1,149.40	84	287.9		
-3	6,470.00	41	1,109.60	85	279.9		
-2	6,182.50	42	1,071.30	86	272.3		
-1	5,909.40	43	1,034.60	87	264.9		
0	5,650.00	44	999.3	88	257.7		
1	5,403.40	45	965.4	89	250.7		
2	5,169.10	46	932.8	90	244		
3	4,946.20	47	901.6	91	237.5		

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ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA2K7MCD1	Micro BetaCHIP thermistor probe (MCD)	2,000	1,000

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

NORTH AMERICA
Tel +1 800 522 6752
customercare.ando@te.com

EUROPE
Tel +31 73 624 6999
customercare.glwy@te.com

ASIA
Tel +86 0400 820 6015
customercare.chdu@te.com

te.com/sensorsolutions

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