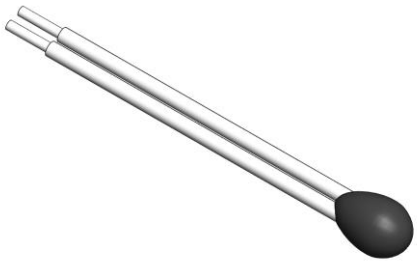
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DISCRETE THERMISTOR GA1K2A1IB

Description

The NTC BetaCURVE Chip is soldered to 30 AWG solid silver-plated copper wire with white PTFE insulation.

Device is encapsulated in epoxy resin for mechanical protection and fast time-response.

Features

- NTC thermistor with 1KOhm nominal resistance @ +25ºC
- Ø 2.5mm maximum diameter
- 30 AWG solid silver-plated copper wire with white PTFE insulation.
- Proven stability and reliability
- Rapid time response
- Thermally conductive epoxy coating
- Temperature range -40ºC to +100ºC

Applications

- Temperature sensing, control and compensation

Specifications

- 1K Ohms Resistance @ +25ºC
- ± 0.2 ºC Resistance Tolerance from 0ºC to +25ºC
- Rapid Time Response
- Beta $_{25/85}$ = 3348 ± 1.0 %

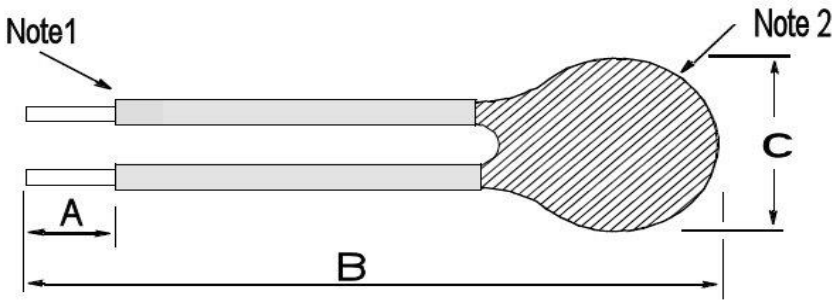
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Performance specifications

Parameters	Units	Value
Resistance @ +25°C	Ohms	1,000
Resistance Tolerance from 0ºC to +25°C	°C	±0.2
Beta Value 25/85	K	3348
Tolerance on Beta Value 25/85	%	±1
Operating Temperature	°C	-40 to +100°C
Time response in well stirred liquid	Seconds	<1.0
Dissipation Constant in still air	mW/°C	0.85

Mechanical details



Dimensions

A	B	C
10 +/- 1mm	76 +/- 3mm	2.5mm Maximum

Notes

1	30 AWG solid silver-plated copper wire with white PTFE insulation.
2	Black thermally conductive epoxy resin

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Resistance v temperature table

Temp °C	Ohms
-40	18641.3
-39	17648.9
-38	16715.5
-37	15837.1
-36	15010.1
-35	14231.4
-34	13497.7
-33	12806.3
-32	12154.5
-31	11539.8
-30	10959.8
-29	10412.5
-28	9895.7
-27	9407.7
-26	8946.7
-25	8511.0
-24	8099.0
-23	7709.5
-22	7341.0
-21	6992.3
-20	6662.1
-19	6349.6
-18	6053.5
-17	5772.9
-16	5507.0
-15	5254.9
-14	5015.8
-13	4788.9
-12	4573.6
-11	4369.3
-10	4175.2
-9	3990.9
-8	3815.8
-7	3649.4
-6	3491.2
-5	3340.7

Temp °C	Ohms
-4	3197.6
-3	3061.5
-2	2931.9
-1	2808.5
0	2691.0
1	2579.1
2	2472.5
3	2370.9
4	2274.0
5	2181.6
6	2093.5
7	2009.5
8	1929.3
9	1852.7
10	1779.6
11	1709.8
12	1643.1
13	1579.4
14	1518.5
15	1460.3
16	1404.7
17	1351.4
18	1300.5
19	1251.8
20	1205.1
21	1160.5
22	1117.7
23	1076.8
24	1037.6
25	**1000.0**
26	964.0
27	929.5
28	896.4
29	864.6
30	834.2
31	804.9

Temp °C	Ohms
32	776.9
33	750.0
34	724.1
35	699.3
36	675.5
37	652.6
38	630.6
39	609.5
40	589.2
41	569.6
42	550.8
43	532.8
44	515.4
45	498.7
46	482.6
47	467.1
48	452.2
49	437.8
50	424.0
51	410.7
52	397.8
53	385.5
54	373.5
55	362.0
56	351.0
57	340.3
58	330.0
59	320.0
60	310.4
61	301.2
62	292.3
63	283.6
64	275.3
65	267.3
66	259.5
67	252.0

Temp °C	Ohms
68	244.8
69	237.8
70	231.0
71	224.5
72	218.1
73	212.0
74	206.1
75	200.4
76	194.9
77	189.5
78	184.3
79	179.3
80	174.5
81	169.8
82	165.2
83	160.8
84	156.6
85	152.4
86	148.4
87	144.6
88	140.8
89	137.2
90	133.6
91	130.2
92	126.9
93	123.7
94	120.5
95	117.5
96	114.6
97	111.7
98	109.0
99	106.3
100	103.7

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Ordering information

Part Number	Description	Resistance @ +25ºC	MOQ
GA1K2A1IB	Insulated NTC Thermistor	1,000	1,000*

*For orders less than MOQ, contact Sales

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