



## GA1K2A1 SERIES V THERMISTORS

Thermally Conductive Epoxy Coating

Ø 2.4 mm Maximum Diameter

32 AWG Alloy 180 Leads

RoHS Compliant

BetaCURVE series V thermistors are small epoxy coated devices with solid tin-plated lead wires. Due to the low nominal resistance values, these devices are suitable for measurement applications at the lower temperature ranges.

### FEATURES

- Interchangeability
- Proven stability and reliability
- Rapid time response
- Alloy lead wires for reduced thermal conductivity ("stem effect")
- Thermally conductive epoxy coating
- Temperature range -40°C to +125°C
- Custom probe assemblies available

### APPLICATIONS

- Temperature sensing, control and compensation
- Measurement applications at low temperature ranges

**MECHANICAL DETAILS**



**DIMENSIONS**

A	B
76 ±2 mm	2.4 mm max.

Note 1: 32 AWG Solid Alloy 180 Leads

Note 2: Black Stycast 2850ft Epoxy

**PERFORMANCE SPECS**

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	1,000
Resistance Tolerance from 0°C to +25°C	°C	±0.2
Alpha Value at +25°C	%/°C	3.68
Beta Value 25/85	K	3348
Tolerance on Beta Value 25/85	%	±0.5
Time Response in Liquids	Seconds	<1
Dissipation Constant in Still Air	mW/°C	0.75

**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
-24	8099
-23	7709.5
-22	7341
-21	6992.3
-20	6662.1
-19	6349.6
-18	6053.5
-17	5772.9
-16	5507
-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
-4	3197.6
-3	3061.5
-2	2931.9
-1	2808.5
0	2691

Temp. °C	Ohms
1	2579.1
2	2472.5
3	2370.9
4	2274
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
<b>25</b>	<b>1000</b>
26	964
27	929.5
28	896.4
29	864.6
30	834.2
31	804.9
32	776.9
33	750
34	724.1
35	699.3
36	675.5
37	652.6
38	630.6
39	609.5
40	589.2
41	569.6

Temp. °C	Ohms
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
51	410.7
52	397.8
53	385.5
54	373.5
55	362
56	351
57	340.3
58	330
59	320
60	310.4
61	301.2
62	292.3
63	283.6
64	275.3
65	267.3
66	259.5
67	252
68	244.8
69	237.8
70	231
71	224.5
72	218.1
73	212
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

Temp. °C	Ohms
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
99	106.3
100	103.7
101	101.2
102	98.7
103	96.3
104	94
105	91.7
106	89.6
107	87.4
108	85.4
109	83.4
110	81.4
111	79.5
112	77.7
113	75.9
114	74.2
115	72.5
116	70.8
117	69.2
118	67.7
119	66.1
120	64.7
121	63.2
122	61.8
123	60.5
124	59.2
125	57.9

## GA1K2A1 SERIES V THERMISTORS

### ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ*
GA1K2A1	Series V thermistor	1,000	1,000

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

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