



## GA30K5A1 SERIES I THERMISTORS

Thermally Conductive Epoxy Coating

Ø 2.4 mm Maximum Diameter

32 AWG Alloy 180 Leads

Four Temperature Tolerance Classifications Available

RoHS Compliant

BetaCURVE series I thermistors are small epoxy coated devices with solid tin-plated lead wires. The series I offers a choice of precision temperature tolerance classifications for a wide variety of customer applications, such as temperature measurements, temperature indication, temperature control, and thermal compensation.

### 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
- Tight tolerance instrumentation
- General instrumentation applications

**MECHANICAL DETAILS**



**DIMENSIONS**

A	B
76 ±2 mm	2.4 mm max.

**Note 1:** 32 AWG Solid Alloy 180 Leads

**Note 2:** White Stycast 2850ft Epoxy

**PERFORMANCE SPECS**

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	30,000
GA30K5A1A Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA30K5A1B Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA30K5A1C Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA30K5A1D Resistance Tolerance from 0°C to +70°C	°C	±1.0
Alpha Value at +25°C	%/°C	4.30
Beta Value 25/85	K	3942
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	884198
-39	830463
-38	780301
-37	733457
-36	689693
-35	648790
-34	610546
-33	574773
-32	541299
-31	509964
-30	480620
-29	453130
-28	427367
-27	403213
-26	380560
-25	359305
-24	339357
-23	320627
-22	303035
-21	286506
-20	270969
-19	256362
-18	242622
-17	229694
-16	217526
-15	206069
-14	195278
-13	185111
-12	175529
-11	166495
-10	157975
-9	149937
-8	142352
-7	135191
-6	128429
-5	122041
-4	116006
-3	110301
-2	104907
-1	99806
0	94980
1	90413

Temp. °C	Ohms
2	86090
3	81996
4	78119
5	74445
6	70964
7	67663
8	64534
9	61565
10	58749
11	56076
12	53539
13	51129
14	48841
15	46667
16	44601
17	42637
18	40769
19	38993
20	37303
21	35696
22	34166
23	32709
24	31321
25	30000
26	28741
27	27541
28	26398
29	25307
30	24268
31	23276
32	22329
33	21426
34	20564
35	19741
36	18955
37	18204
38	17487
39	16801
40	16146
41	15519
42	14920
43	14347

Temp. °C	Ohms
44	13799
45	13274
46	12772
47	12292
48	11831
49	11391
50	10968
51	10564
52	10176
53	9805
54	9449
55	9107
56	8780
57	8466
58	8164
59	7875
60	7597
61	7331
62	7075
63	6829
64	6593
65	6366
66	6148
67	5939
68	5738
69	5544
70	5358
71	5179
72	5007
73	4841
74	4682
75	4528
76	4381
77	4239
78	4102
79	3970
80	3843
81	3721
82	3603
83	3489
84	3380
85	3274

Temp. °C	Ohms
86	3172
87	3074
88	2979
89	2888
90	2800
91	2715
92	2633
93	2554
94	2477
95	2403
96	2332
97	2263
98	2197
99	2132
100	2070
101	2010
102	1952
103	1896
104	1842
105	1789
106	1739
107	1690
108	1642
109	1596
110	1552
111	1509
112	1467
113	1427
114	1388
115	1350
116	1314
117	1278
118	1244
119	1211
120	1178
121	1147
122	1117
123	1087
124	1059
125	1031

**ORDERING INFORMATION**

<b>Part Number</b>	<b>Description</b>	<b><math>\Omega</math> @25°C</b>	<b>MOQ*</b>
GA30K5A1A	Series I thermistor	30,000	1,000
GA30K5A1B	Series I thermistor	30,000	1,000
GA30K5A1C	Series I thermistor	30,000	1,000
GA30K5A1D	Series I thermistor	30,000	1,000

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

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