



GA5K3A1i SERIES II THERMISTORS

Thermally Conductive Epoxy Coating

Ø 2.4 mm Maximum Diameter

30 AWG Solid Silver-Plated Copper Leads
with White PTFE Insulation

Four Temperature Tolerance Classifications Available

RoHS Compliant

BetaCURVE series II thermistors are small epoxy coated devices with solid tin-plated lead wires. The series II offers insulated lead wires for added protection, the PTFE insulation also enhances bonding for applications that require mounting or potting the thermistor with epoxies or adhesives. This series also offers a choice of precision temperature tolerance classifications for a wide variety of applications.

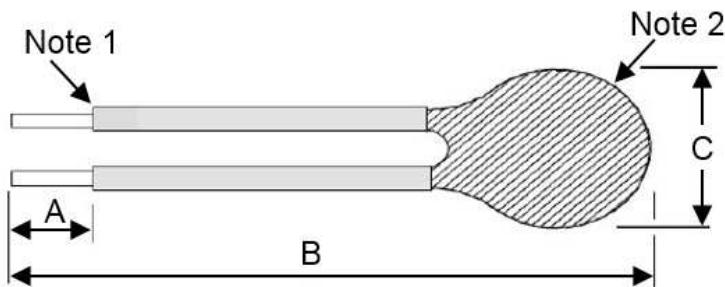
FEATURES

- Interchangeability
- Proven stability and reliability
- Rapid time response
- PTFE insulated lead wires
- 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	C
10 \pm 2 mm	76 \pm 2 mm	2.4 mm max.

Note 1: 30AWG Solid Silver-Plated Copper Leads with White PTFE Insulation

Note 2: Orange Styccast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	5,000
GA5K3A1iA Resistance Tolerance from 0°C to +70°C	°C	\pm 0.1
GA5K3A1iB Resistance Tolerance from 0°C to +70°C	°C	\pm 0.2
GA5K3A1iC Resistance Tolerance from 0°C to +70°C	°C	\pm 0.5
GA5K3A1iD Resistance Tolerance from 0°C to +70°C	°C	\pm 1.0
Alpha Value at +25°C	%/°C	4.39
Beta Value 25/85	K	3976
Tolerance on Beta Value 25/85	%	\pm 0.5
Time Response in Liquids	Seconds	<1
Dissipation Constant in Still Air	mW/°C	0.85

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
-40	167862
-39	157111
-38	147117
-37	137820
-36	129169
-35	121114
-34	113611
-33	106620
-32	100102
-31	94022
-30	88349
-29	83054
-28	78107
-27	73486
-26	69166
-25	65127
-24	61348
-23	57811
-22	54499
-21	51397
-20	48490
-19	45765
-18	43210
-17	40812
-16	38562
-15	36450
-14	34465
-13	32601
-12	30848
-11	29200
-10	27649
-9	26191
-8	24817
-7	23524
-6	22306
-5	21158
-4	20075
-3	19055
-2	18092
-1	17183
0	16325
1	15515

Temp. °C	Ohms
2	14750
3	14027
4	13344
5	12698
6	12086
7	11508
8	10961
9	10443
10	9952
11	9487
12	9046
13	8629
14	8233
15	7857
16	7501
17	7162
18	6841
19	6536
20	6247
21	5972
22	5710
23	5461
24	5225
25	5000
26	4786
27	4582
28	4388
29	4204
30	4028
31	3860
32	3701
33	3549
34	3403
35	3265
36	3133
37	3007
38	2887
39	2772
40	2662
41	2558
42	2458
43	2362

Temp. °C	Ohms
44	2271
45	2183
46	2100
47	2020
48	1944
49	1870
50	1800
51	1733
52	1669
53	1608
54	1549
55	1493
56	1438
57	1387
58	1337
59	1289
60	1244
61	1200
62	1158
63	1117
64	1078
65	1041
66	1005
67	971
68	938
69	906
70	876
71	847
72	818
73	791
74	765
75	740
76	716
77	693
78	670
79	649
80	628
81	608
82	589
83	570
84	553
85	535

Temp. °C	Ohms
86	519
87	503
88	487
89	472
90	458
91	444
92	431
93	418
94	406
95	394
96	382
97	371
98	360
99	349
100	339
101	330
102	320
103	311
104	302
105	294
106	285
107	277
108	270
109	262
110	255
111	248
112	241
113	235
114	228
115	222
116	216
117	211
118	205
119	200
120	194
121	189
122	184
123	180
124	175
125	170

ORDERING INFORMATION

Part Number	Description	$\Omega @25^\circ\text{C}$	MOQ*
GA5K3A1iA	Series II thermistor	5,000	1,000
GA5K3A1iB	Series II thermistor	5,000	1,000
GA5K3A1iC	Series II thermistor	5,000	1,000
GA5K3A1iD	Series II thermistor	5,000	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.giwy@te.com

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

te.com/sensorsolutions

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