



## GA1K7A1 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	3.87
Beta Value 25/85	K	3499
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	21681
-39	20465
-38	19324
-37	18255
-36	17251
-35	16308
-34	15422
-33	14591
-32	13809
-31	13073
-30	12382
-29	11731
-28	11118
-27	10541
-26	9998
-25	9485
-24	9002
-23	8547
-22	8117
-21	7712
-20	7329
-19	6967
-18	6626
-17	6303
-16	5998
-15	5709
-14	5436
-13	5178
-12	4933
-11	4702
-10	4482
-9	4275
-8	4078
-7	3891
-6	3714
-5	3546
-4	3386
-3	3235
-2	3091
-1	2955
0	2825
1	2702
2	2585
3	2473

Temp. °C	Ohms
4	2367
5	2266
6	2170
7	2079
8	1992
9	1909
10	1830
11	1755
12	1683
13	1615
14	1549
15	1487
16	1428
17	1371
18	1317
19	1265
20	1216
21	1169
22	1124
23	1081
24	1039
25	<b>1000</b>
26	962
27	926
28	892
29	859
30	827
31	797
32	768
33	740
34	713
35	688
36	663
37	640
38	617
39	595
40	575
41	555
42	536
43	517
44	500
45	483
46	466
47	451

Temp. °C	Ohms
48	436
49	421
50	407
51	394
52	381
53	369
54	357
55	345
56	334
57	324
58	313
59	304
60	294
61	285
62	276
63	268
64	259
65	252
66	244
67	237
68	229
69	223
70	216
71	210
72	203
73	198
74	192
75	186
76	181
77	176
78	171
79	166
80	161
81	157
82	152
83	148
84	144
85	140
86	136
87	132
88	129
89	125
90	122
91	119

Temp. °C	Ohms
92	116
93	113
94	110
95	107
96	104
97	101
98	99
99	96
100	94
101	91
102	89
103	87
104	85
105	82
106	80
107	78
108	77
109	75
110	73
111	71
112	69
113	68
114	66
115	65
116	63
117	62
118	60
119	59
120	57
121	56
122	55
123	53
124	52
125	51

## GA1K7A1 SERIES V THERMISTORS

### ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ*
GA1K7A1	Series V thermistor	1,000	1,000

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

#### NORTH AMERICA

Tel +1 800 522 6752  
[customercare.ando@te.com](mailto:customercare.ando@te.com)

#### EUROPE

Tel +31 73 624 6999  
[customercare.glw@te.com](mailto:customercare.glw@te.com)

#### ASIA

Tel +86 0400 820 6015  
[customercare.chdu@te.com](mailto:customercare.chdu@te.com)

#### [te.com/sensorsolutions](http://te.com/sensorsolutions)

BetaCURVE, TE Connectivity, TE, and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, products and/or company names referred to herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2018 TE Connectivity Ltd. family of companies All Rights Reserved.