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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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GA2.2K3A1 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.

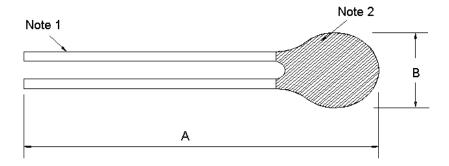
FEATURES

- 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
- Assembly into probes for a wide variety of applications
- General instrumentation applications

MECHANICAL DETAILS



DIMENSIONS

Α	В	
76 ±2 mm	2.4 mm max.	

Note 1: 32 AWG Solid Alloy 180 Leads Note 2: Brown Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	2,252
GA2.2K3A1A Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA2.2K3A1B Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA2.2K3A1C Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA2.2K3A1D Resistance Tolerance from 0°C to +70°C	°C	±1.0
Alpha Value at +25°C	%/°C	4.39
Beta Value 25/85	K	3976
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	75491	
-39	70663	
-38	66173	
-37	61996	
-36	58109	
-35	54489	
-34	51118	
-33	47975	
-32	45045	
-31	42312	
-30	39761	
-29	37380	
-28	35156	
-27	33077	
-26	31134	
-25	29317	
-24	27617	
-23	26026	
-22	24536	
-21	23140	
-20	21832	
-19	20606	
-18	19456	
-17	18377	
-16	17364	
-15	16413	
-14	15520	
-13	14681	
-12	13892	
-11	13150	
-10	12452	
-9	11795	
-8	11177	
-7	10595	
-6	10046	
-5	9529	
-4	9042	
-3	8582	
-2	8148	
-1	7739	
0	7353	
1	6988	

Temp. °C	Ohms	
2	6644	
3	6318	
4	6010	
5	5719	
6	5444	
7	5183	
8	4937	
9	4703	
10	4482	
11	4273	
12	4075	
13	3886	
14	3708	
15	3539	
16	3378	
17	3226	
18	3081	
19	2944	
20	2814	
21	2690	
22	2572	
23	2460	
24	2353	
25	2252	
26	2156	
27	2064	
28	1977	
29	1893	
30	1814	
31	1739	
32	1667	
33	1598	
34	1533	
35	1471	
36	1411	
37	1354	
38	1300	
39	1248	
40	1199	
41	1152	
42	1107	
43	1064	

Temp. °C Ohms 44 1023 45 983 46 946 47 910 48 875 49 842 50 811 51 781 52 752 53 724 54 698 55 672 56 648 57 624 58 602 59 581 60 560 61 540 62 521 63 503 64 486 65 469 66 453 67 437 68 422 69 408 70 394 71 381 72 369 73 356 74 345 75 333 76 322 <		
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85 241		
	85	241

Temp. °C	Ohms	
86	234	
87	226	
88	220	
89	213	
90	206	
91	200	
92	194	
93	188	
94	183	
95	177	
96	172	
97	167	
98	162	
99	157	
100	153	
101	149	
102	144	
103	140	
104	136	
105	132	
106	129	
107	125	
108	122	
109	118	
110	115	
111	112	
112	109	
113	106	
114	103	
115	100	
116	98	
117	95	
118	92	
119	90	
120	88	
121	85	
122	83	
123	81	
124	79	
125	77	

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*	
GA2.2K3A1A	Series I thermistor	2,252	1,000	
GA2.2K3A1B	Series I thermistor	2,252	1,000	
GA2.2K3A1C	Series I thermistor	2,252	1,000	
GA2.2K3A1D	Series I thermistor	2,252	1,000	

^{*} For quantities less than MOQ (Minimum Order Quantity) contact distribution

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