# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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# Contact us

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# GA10K3A1i 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.

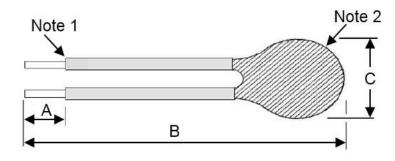
# **FEATURES**

- 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

А	В	С
10 ±2 mm	76 ±2 mm	2.4 mm max.

**Note 1:** 30AWG Solid Silver-Plated Copper Leads with White PTFE Insulation **Note 2:** Yellow Stycast 2850ft Epoxy

# PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
GA10K3A1iA Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA10K3A1iB Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA10K3A1iC Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA10K3A1iD Resistance Tolerance from 0°C to +70°C	°C	±1.0
Alpha Value at +25°C	%/°C	4.39
Beta Value 25/85	К	3976
Tolerance on Beta Value 25/85	%	±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	336098	
-39	314553	
-38	294524	
-37	275897	
-36	258563	
-35	242427	
-34	227398	
-33	213394	
-32	200339	
-31	188163	
-30	176803	
-29	166198	
-28	156294	
-27	147042	
-26	138393	
-25	130306	
-24	122741	
-23	115661	
-22	109032	
-21	102824	
-20	97006	
-19	91553	
-18	86439	
-17	81641	
-16	77138	
-15	72911	
-14	68940	
-13	65209	
-12	61703	
-11	58405	
-10	55304	
-9	52385	
-8	49638	
-7	47050	
-6	44613	
-5	42317	
-4	40151	
-3	38110	
-2	36184	
-1	34366	
0	32651	
1	31031	

ATURE TABLE		
Temp. °C	Ohms	
2	29500	
3	28054	
4	26687	
5	25395	
6	24172	
7	23016	
8	21921	
9	20885	
10	19903	
11	18973	
12	18092	
13	17257	
14	16465	
15	15714	
16	15001	
17	14324	
18	13682	
19	13073	
20	12493	
21	11943	
22	11420	
23	10923	
24	10450	
25	10000	
26	9572	
27	9165	
28	8777	
29	8408	
30	8056	
31	7721	
32	7402	
33	7097	
34	6807	
35	6530	
36	6266	
37	6014	
38	5774	
39	5544	
40	5325	
41	5116	
42	4916	
43	4724	

Temp. °C	Ohms	
44	4542	
45	4367	
46	4200	
47	4040	
48	3887	
49	3741	
50	3601	
51	3467	
52	3339	
53	3216	
54	3098	
55	2985	
56	2877	
57	2773	
58	2674	
59	2579	
60	2487	
61	2399	
62	2315	
63	2234	
64	2157	
65	2082	
66	2011	
67	1942	
68	1876	
69	1813	
70	1752	
71	1693	
72	1637	
73	1582	
74	1530	
75	1480	
76	1432	
77	1385	
78	1341	
79	1298	
80	1256	
81	1216	
82	1178	
83	1141	
84	1105	
85	1070	

Temp. °C	Ohms	
86	1037	
87	1005	
88	974	
89	945	
90	916	
91	888	
92	862	
93	836	
94	811	
95	787	
96	764	
97	741	
98	720	
99	699	
100	678	
101	659	
102	640	
103	622	
104	604	
105	587	
106	571	
107	555	
108	539	
109	524	
110	510	
111	496	
112	482	
113	469	
114	457	
115	444	
116	432	
117	421	
118	410	
119	399	
120	388	
121	378	
122	368	
123	359	
124	350	
125	341	

### **ORDERING INFORMATION**

Part Number	Description	Ω @25°C	MOQ*
GA10K3A1iA	Series II thermistor	10,000	1,000
GA10K3A1iB	Series II thermistor	10,000	1,000
GA10K3A1iC	Series II thermistor	10,000	1,000
GA10K3A1iD	Series II thermistor	10,000	1,000

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

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