



GA3K3A1i 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.

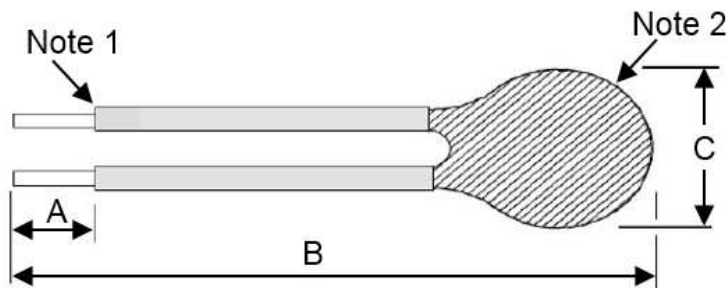
FEATURES

- 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 ±2 mm	76 ±2 mm	2.4 mm max.

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

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	3,000
GA3K3A1iA Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA3K3A1iB Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA3K3A1iC Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA3K3A1iD 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	0.85

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	100619	2	8850	44	1362	86	311
-39	94180	3	8416	45	1310	87	302
-38	88194	4	8006	46	1260	88	292
-37	82625	5	7619	47	1212	89	283
-36	77442	6	7252	48	1166	90	275
-35	72616	7	6905	49	1122	91	267
-34	68121	8	6577	50	1080	92	259
-33	63932	9	6266	51	1040	93	251
-32	60026	10	5971	52	1002	94	243
-31	56382	11	5692	53	965	95	236
-30	52982	12	5428	54	929	96	229
-29	49808	13	5177	55	895	97	222
-28	46843	14	4940	56	863	98	216
-27	44073	15	4714	57	832	99	210
-26	41484	16	4500	58	802	100	204
-25	39062	17	4297	59	774	101	198
-24	36796	18	4105	60	746	102	192
-23	34676	19	3922	61	720	103	187
-22	32690	20	3748	62	695	104	181
-21	30830	21	3583	63	670	105	176
-20	29087	22	3426	64	647	106	171
-19	27453	23	3277	65	625	107	167
-18	25921	24	3135	66	603	108	162
-17	24483	25	3000	67	583	109	157
-16	23134	26	2872	68	563	110	153
-15	21867	27	2749	69	544	111	149
-14	20676	28	2633	70	525	112	145
-13	19558	29	2522	71	508	113	141
-12	18507	30	2417	72	491	114	137
-11	17518	31	2316	73	475	115	133
-10	16588	32	2220	74	459	116	130
-9	15713	33	2129	75	444	117	126
-8	14890	34	2042	76	430	118	123
-7	14114	35	1959	77	416	119	120
-6	13383	36	1880	78	402	120	117
-5	12694	37	1804	79	389	121	114
-4	12045	38	1732	80	377	122	111
-3	11433	39	1663	81	365	123	108
-2	10855	40	1597	82	353	124	105
-1	10310	41	1535	83	342	125	102
0	9795	42	1475	84	332		
1	9309	43	1417	85	321		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA3K3A1iA	Series II thermistor	3,000	1,000
GA3K3A1iB	Series II thermistor	3,000	1,000
GA3K3A1iC	Series II thermistor	3,000	1,000
GA3K3A1iD	Series II thermistor	3,000	1,000

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

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