



GA2.2K3A1i 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.

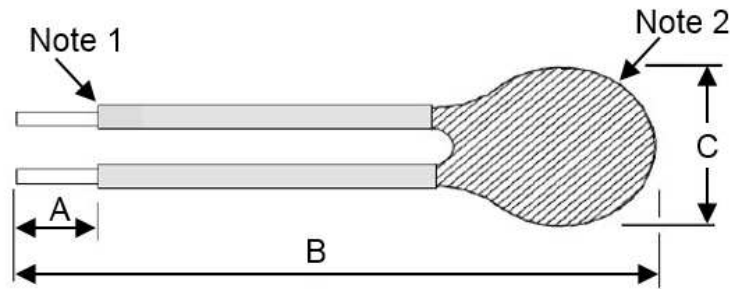
FEATURES

- Interchangeability
- Proven stability and reliability
- 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: Brown Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	2,252
GA2.2K3A1iA Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA2.2K3A1iB Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA2.2K3A1iC Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA2.2K3A1iD 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	75491	2	6644	44	1023	86	234
-39	70663	3	6318	45	983	87	226
-38	66173	4	6010	46	946	88	220
-37	61996	5	5719	47	910	89	213
-36	58109	6	5444	48	875	90	206
-35	54489	7	5183	49	842	91	200
-34	51118	8	4937	50	811	92	194
-33	47975	9	4703	51	781	93	188
-32	45045	10	4482	52	752	94	183
-31	42312	11	4273	53	724	95	177
-30	39761	12	4075	54	698	96	172
-29	37380	13	3886	55	672	97	167
-28	35156	14	3708	56	648	98	162
-27	33077	15	3539	57	624	99	157
-26	31134	16	3378	58	602	100	153
-25	29317	17	3226	59	581	101	149
-24	27617	18	3081	60	560	102	144
-23	26026	19	2944	61	540	103	140
-22	24536	20	2814	62	521	104	136
-21	23140	21	2690	63	503	105	132
-20	21832	22	2572	64	486	106	129
-19	20606	23	2460	65	469	107	125
-18	19456	24	2353	66	453	108	122
-17	18377	25	2252	67	437	109	118
-16	17364	26	2156	68	422	110	115
-15	16413	27	2064	69	408	111	112
-14	15520	28	1977	70	394	112	109
-13	14681	29	1893	71	381	113	106
-12	13892	30	1814	72	369	114	103
-11	13150	31	1739	73	356	115	100
-10	12452	32	1667	74	345	116	98
-9	11795	33	1598	75	333	117	95
-8	11177	34	1533	76	322	118	92
-7	10595	35	1471	77	312	119	90
-6	10046	36	1411	78	302	120	88
-5	9529	37	1354	79	292	121	85
-4	9042	38	1300	80	283	122	83
-3	8582	39	1248	81	274	123	81
-2	8148	40	1199	82	265	124	79
-1	7739	41	1152	83	257	125	77
0	7353	42	1107	84	249		
1	6988	43	1064	85	241		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA2.2K3A1iA	Series II thermistor	2,252	1,000
GA2.2K3A1iB	Series II thermistor	2,252	1,000
GA2.2K3A1iC	Series II thermistor	2,252	1,000
GA2.2K3A1iD	Series II thermistor	2,252	1,000

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

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