



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.

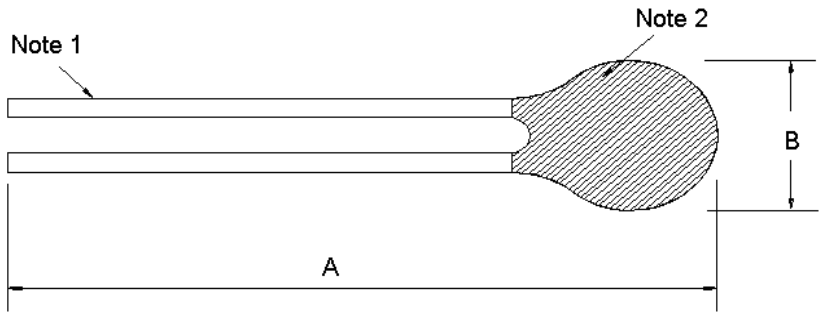
FEATURES

- 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

A	B
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	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*
GA2.2K3A1A	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

NORTH AMERICA
Tel +1 800 522 6752
customercare.ando@te.com

EUROPE
Tel +31 73 624 6999
customercare.glwy@te.com

ASIA
Tel +86 0400 820 6015
customercare.chdu@te.com

te.com/sensorsolutions

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