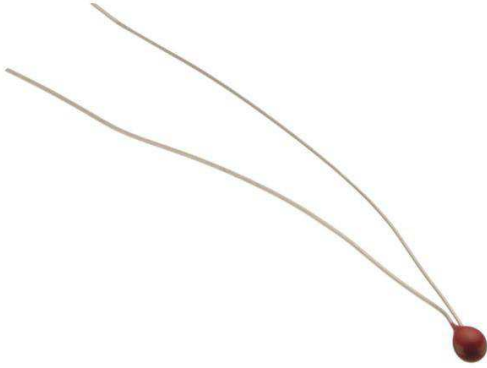




GA3K3A1 SERIES I THERMISTORS

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.

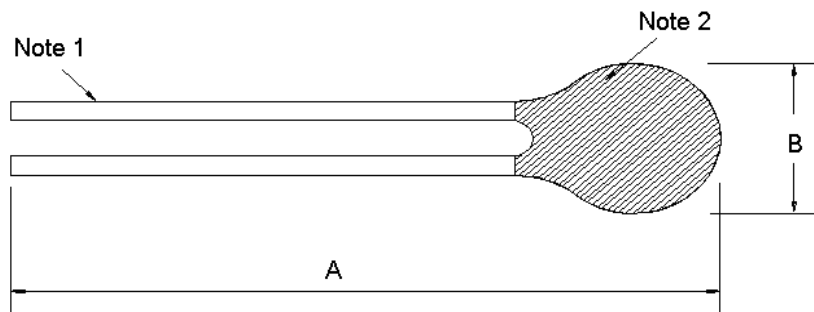
FEATURES

- 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
- 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: Red Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	3,000
GA3K3A1A Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA3K3A1B Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA3K3A1C Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA3K3A1D 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	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*
GA3K3A1A	Series I thermistor	3,000	1,000
GA3K3A1B	Series I thermistor	3,000	1,000
GA3K3A1C	Series I thermistor	3,000	1,000
GA3K3A1D	Series I thermistor	3,000	1,000

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

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