



GA1K2A1 SERIES V THERMISTORS

Thermally Conductive Epoxy Coating

Ø 2.4 mm Maximum Diameter

32 AWG Alloy 180 Leads

RoHS Compliant

BetaCURVE series V thermistors are small epoxy coated devices with solid tin-plated lead wires. Due to the low nominal resistance values, these devices are suitable for measurement applications at the lower temperature ranges.

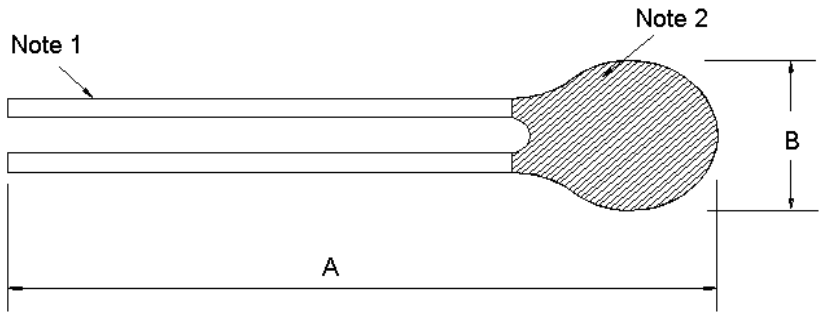
FEATURES

- 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
- Measurement applications at low temperature ranges

MECHANICAL DETAILS



DIMENSIONS

A	B
76 ±2 mm	2.4 mm max.

Note 1: 32 AWG Solid Alloy 180 Leads
Note 2: Black Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	1,000
Resistance Tolerance from 0°C to +25°C	°C	±0.2
Alpha Value at +25°C	%/°C	3.68
Beta Value 25/85	K	3348
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	18641.3	1	2579.1	42	550.8	83	160.8
-39	17648.9	2	2472.5	43	532.8	84	156.6
-38	16715.5	3	2370.9	44	515.4	85	152.4
-37	15837.1	4	2274	45	498.7	86	148.4
-36	15010.1	5	2181.6	46	482.6	87	144.6
-35	14231.4	6	2093.5	47	467.1	88	140.8
-34	13497.7	7	2009.5	48	452.2	89	137.2
-33	12806.3	8	1929.3	49	437.8	90	133.6
-32	12154.5	9	1852.7	50	424	91	130.2
-31	11539.8	10	1779.6	51	410.7	92	126.9
-30	10959.8	11	1709.8	52	397.8	93	123.7
-29	10412.5	12	1643.1	53	385.5	94	120.5
-28	9895.7	13	1579.4	54	373.5	95	117.5
-27	9407.7	14	1518.5	55	362	96	114.6
-26	8946.7	15	1460.3	56	351	97	111.7
-25	8511	16	1404.7	57	340.3	98	109
-24	8099	17	1351.4	58	330	99	106.3
-23	7709.5	18	1300.5	59	320	100	103.7
-22	7341	19	1251.8	60	310.4	101	101.2
-21	6992.3	20	1205.1	61	301.2	102	98.7
-20	6662.1	21	1160.5	62	292.3	103	96.3
-19	6349.6	22	1117.7	63	283.6	104	94
-18	6053.5	23	1076.8	64	275.3	105	91.7
-17	5772.9	24	1037.6	65	267.3	106	89.6
-16	5507	25	1000	66	259.5	107	87.4
-15	5254.9	26	964	67	252	108	85.4
-14	5015.8	27	929.5	68	244.8	109	83.4
-13	4788.9	28	896.4	69	237.8	110	81.4
-12	4573.6	29	864.6	70	231	111	79.5
-11	4369.3	30	834.2	71	224.5	112	77.7
-10	4175.2	31	804.9	72	218.1	113	75.9
-9	3990.9	32	776.9	73	212	114	74.2
-8	3815.8	33	750	74	206.1	115	72.5
-7	3649.4	34	724.1	75	200.4	116	70.8
-6	3491.2	35	699.3	76	194.9	117	69.2
-5	3340.7	36	675.5	77	189.5	118	67.7
-4	3197.6	37	652.6	78	184.3	119	66.1
-3	3061.5	38	630.6	79	179.3	120	64.7
-2	2931.9	39	609.5	80	174.5	121	63.2
-1	2808.5	40	589.2	81	169.8	122	61.8
0	2691	41	569.6	82	165.2	123	60.5
						124	59.2
						125	57.9

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA1K2A1	Series V thermistor	1,000	1,000

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

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