



GA10K3A1AM SERIES VI THERMISTORS

2.2 to 10K Ohms Resistance @25°C
Thermally Conductive Epoxy Coating
Ø 2.4 mm Maximum Diameter
32 AWG Alloy 180 Leads
RoHS Compliant

BetaCURVE series VI thermistors are small epoxy coated devices with solid tin plated lead wires. The series VI are specified with a temperature tolerance of $\pm 0.05^{\circ}\text{C}$ over the range from $+32^{\circ}\text{C}$ to $+44^{\circ}\text{C}$ and are available in different nominal resistance values.

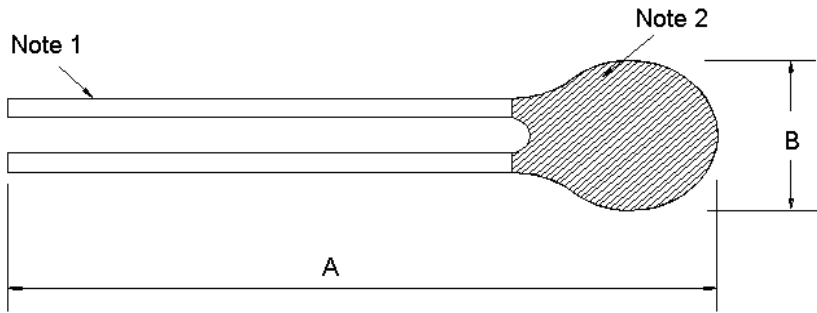
FEATURES

- 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 $+125^{\circ}\text{C}$
- Medical grade classification
- Custom probe assemblies available

APPLICATIONS

- Temperature sensing, control and compensation
- Tight tolerance instrumentation
- Esophageal catheters
- Skin sensors
- Oral and rectal probes
- Pharmaceutical manufacturing equipment
- Temperature sensing, control and compensation

MECHANICAL DETAILS



DIMENSIONS

A	B
76 ±2 mm	2.4 mm max.

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

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
Resistance Tolerance from +32°C to +44°C	°C	0.05
Alpha Value at +25°C	%/°C	4.39
Beta Value 25/85	K	3976
Tolerance on Beta Value 25/85	%	0.32
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	336098	3	28054	46	4200	93	836
-39	314553	4	26687	47	4040	94	811
-38	294524	5	25395	48	3887	95	787
-37	275897	6	24172	49	3741	96	764
-36	258563	7	23016	50	3601	97	741
-35	242427	8	21921	51	3467	98	720
-34	227398	9	20885	52	3339	99	699
-33	213394	10	19903	53	3216	100	678
-32	200339	11	18973	54	3098	101	659
-31	188163	12	18092	55	2985	102	640
-30	176803	13	17257	56	2877	103	622
-29	166198	14	16465	57	2773	104	604
-28	156294	15	15714	58	2674	105	587
-27	147042	16	15001	59	2579	106	571
-26	138393	17	14324	60	2487	107	555
-25	130306	18	13682	61	2399	108	539
-24	122741	19	13073	62	2315	109	524
-23	115661	20	12493	63	2234	110	510
-22	109032	21	11943	64	2157	111	496
-21	102824	22	11420	65	2082	112	482
-20	97006	23	10923	66	2011	113	469
-19	91553	24	10450	67	1942	114	457
-18	86439	25	10000	68	1876	115	444
-17	81641	26	9572	69	1813	116	432
-16	77138	27	9165	70	1752	117	421
-15	72911	28	8777	71	1693	118	410
-14	68940	29	8408	72	1637	119	399
-13	65209	30	8056	73	1582	120	388
-12	61703	31	7721	74	1530	121	378
-11	58405	32	7402	75	1480	122	368
-10	55304	33	7097	76	1432	123	359
-9	52385	34	6807	77	1385	124	350
-8	49638	35	6530	78	1341	125	341
-7	47050	36	6266	79	1298		
-6	44613	37	6014	80	1256		
-5	42317	38	5774	81	1216		
-4	40151	39	5544	82	1178		
-3	38110	40	5325	83	1141		
-2	36184	41	5116	88	974		
-1	34366	42	4916	89	945		
0	32651	43	4724	90	916		
1	31031	44	4542	91	888		
2	29500	45	4367	92	862		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA10K3A1AM	Series VI thermistor	10,000	1,000

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

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