



GA10K4A1AM 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.

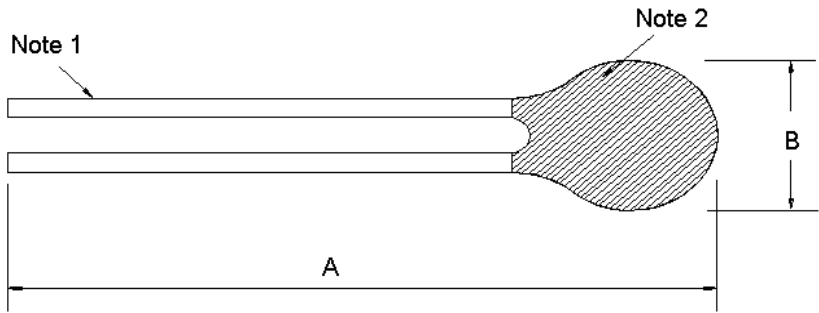
FEATURES

- 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: Black 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	4.04
Beta Value 25/85	K	3694
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	239828	3	25689	46	4490	89	1116
-39	226103	4	24547	47	4332	90	1084
-38	213243	5	23462	48	4180	91	1053
-37	201188	6	22431	49	4034	92	1023
-36	189885	7	21450	50	3893	93	994
-35	179282	8	20518	51	3759	94	967
-34	169331	9	19631	52	3629	95	940
-33	159991	10	18787	53	3505	96	913
-32	151219	11	17983	54	3386	97	888
-31	142978	12	17219	55	3271	98	864
-30	135233	13	16490	56	3160	99	840
-29	127952	14	15797	57	3054	100	817
-28	121104	15	15136	58	2952	101	795
-27	114661	16	14506	59	2854	102	774
-26	108598	17	13906	60	2760	103	753
-25	102889	18	13334	61	2669	104	733
-24	97513	19	12788	62	2582	105	713
-23	92448	20	12268	63	2498	106	694
-22	87675	21	11771	64	2417	107	676
-21	83174	22	11297	65	2339	108	658
-20	78930	23	10845	66	2264	109	641
-19	74926	24	10413	67	2191	110	624
-18	71148	25	10000	68	2122	111	608
-17	67581	26	9606	69	2055	112	592
-16	64212	27	9229	70	1990	113	577
-15	61031	28	8869	71	1928	114	562
-14	58024	29	8525	72	1868	115	548
-13	55182	30	8196	73	1810	116	534
-12	52495	31	7882	74	1754	117	521
-11	49954	32	7581	75	1700	118	507
-10	47549	33	7293	76	1648	119	495
-9	45274	34	7018	77	1598	120	482
-8	43119	35	6754	78	1550	121	470
-7	41079	36	6501	79	1503	122	459
-6	39147	37	6260	80	1458	123	448
-5	37316	38	6028	81	1414	124	437
-4	35580	39	5806	82	1372	125	426
-3	33935	40	5594	83	1332		
-2	32375	41	5390	84	1293		
-1	30895	42	5195	85	1255		
0	29490	43	5007	86	1218		
1	28157	44	4828	87	1183		
2	26891	45	4656	88	1149		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA10K4A1AM	Series VI thermistor	10,000	1,000

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

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