



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.

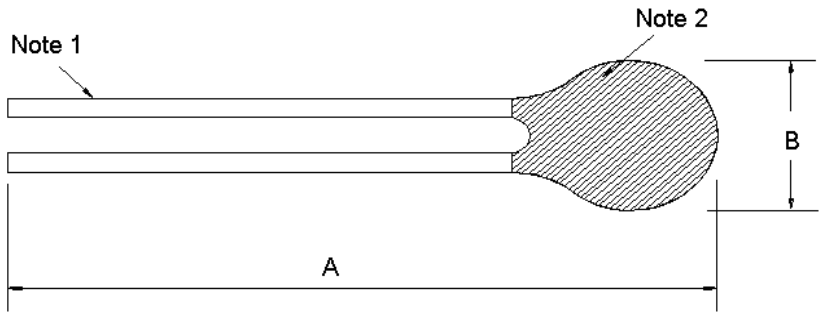
FEATURES

- 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

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

BetaCURVE, TE Connectivity, TE, and the TE Connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, products and/or company names referred to herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2018 TE Connectivity Ltd. family of companies All Rights Reserved.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[GA10K4A1AM](#)