



10K3A1AM SERIES VI

Thermistor

SPECIFICATIONS

- Thermally conductive epoxy coating Ø 2.4 mm Maximum Diameter
- 32 AWG Alloy 180 Leads
- **RoHS Compliant**

The BetaCURVE Chip is Soldered to 32 AWG Alloy 180 Leads and Encapsulated in Stycast Epoxy Resin

Thermistor

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

APPLICATIONS

Temperature sensing, control and compensation

Tight Tolerance Instrumentation

Esophageal Catheters

Skin sensors

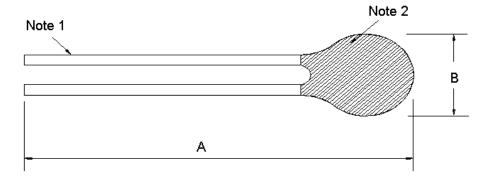
Oral and Rectal Probes

Pharmaceutical manufacturing equipment

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
Resistance tolerance from 32°C to +44°C	°C	0.05
Alpha Value @ 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

MECHANICAL DETAILS



	Dimensions	
	A	В
	76 ± 2mm	2.4mm Max
Note 1	32 AWG Solid Alloy 180 Leads	
Note 2	Yellow Stycast 2850ft Epoxy	

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
	I.
-40	336098
-39	314553
-38	294524
-37	275897
-36	258563
-35	242427
-34	227398
-33	213394
-32	200339
-31	188163
-30	176803
-29	166198
-28	156294
-27	147042
-26	138393
-25	130306
-24	122741
-23	115661
-22	109032
-21	102824
-20	97006
-19	91553
-18	86439
-17	81641
-16	77138
-15	72911
-14	68940
-13	65209
-12	61703
-11	58405
-10	55304
-9	52385
-8	49638
-7	47050
-6	44613
-5	42317
-4	40151
-3	38110
-2	36184
-7	34366
0	32651

ERATUR	E TABLE	
Temp. °C	Ohms	
1	31031	
2	29500	
3	28054	
4	26687	
5	25395	
6	24172	
7	23016	
8	21921	
9	20885	
10	19903	
11	18973	
12	18092	
13	17257	
14	16465	
15	15714	
16	15001	
17	14324	
18	13682	
19	13073	
20	12493	
21	11943	
22	11420	
23	10923	
24	10450	
25	10000	
26	9572	
27	9165	
28	<i>8</i> 777	
29	8408	
30	8056	
31	7721	
32	7402	
33	7097	
34	6807	
35	<i>6530</i>	
36	6266	
37	6014	
38	5774	
39	5544	
40	5325	
41	5116	

Temp. °C	Ohms	
42	4916	
43	4724	
44	4542	
<i>4</i> 5	4367	
46	4200	
47	4040	
48	3887	
49	3741	
50	3601	
51	3467	
52	3339	
53	3216	
54	3098	
55	2985	
56	2877	
57	2773	
58	2674	
59	2579	
60	2487	
61	2399	
62	2315	
63	2234	
64	2157	
65	2082	
66	2011	
67	1942	
68	1876	
69	1813	
70	1752	
71	1693	
72	1637	
73	1582	
74	<i>1530</i>	
75	1480	
76	1432	
77	1385	
<u>78</u>	1341	
79	1298	
80	1256	
81	1216	
82	1178	
83	1141	

84	1105	
85	1070	
86	1037	
<i>8</i> 7	1005	
88	974	
89	945	
90	916	
91	888	
92	862	
93	836	
94	811	
95	787	
96	764	
97	741	
98	720	
99	699	
100	678	
101	659	
102	640	
103	622	
104	604	
105	587	
106	571	
107	555	
108	539	
109	524	
110	510	
111	496	
112	482	
113	469	
114	457	
115	444	
116	432	
117	421	
118	410	
119	399	
120	388	
121	378	
122	368	
123	359	
124	350	
125	341	
125	341	

Temp. °C

Ohms

Thermistor

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3A1AM	Series VI Thermistor	10,000	1,000*

^{*} For quantities less than Minimum Order Quantity - Contact Distribution

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