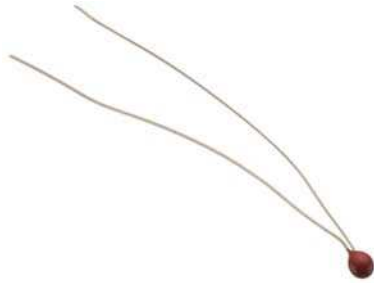


3K3A1 Series 1 Thermistor



- Thermally conductive epoxy coating
- Ø 2.4 mm Maximum Diameter
- 32 AWG Alloy 180 Leads
- Choice of 4 temperature tolerance classifications
- RoHS Compliant

DESCRIPTION

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

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

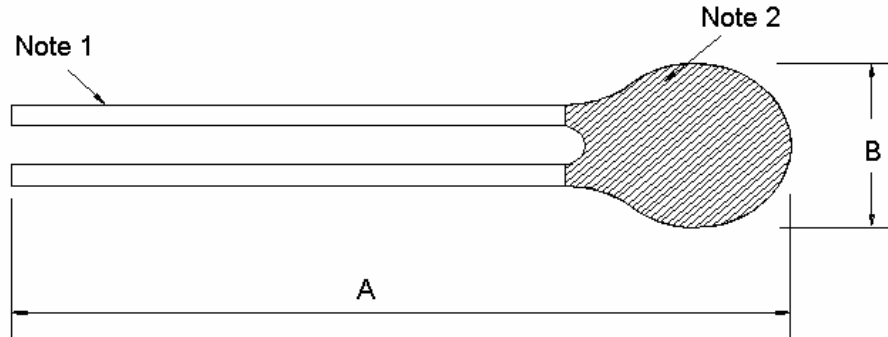
- Temperature sensing, control and compensation
- Tight Tolerance Instrumentation
- Assembly into probes for a wide variety of applications
- General Instrumentation applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	3,000
3K3A1A Resistance tolerance from 0°C to +70°C	°C	0.1
3K3A1B Resistance tolerance from 0°C to +70°C	°C	0.2
3K3A1C Resistance tolerance from 0°C to +70°C	°C	0.5
3K3A1D Resistance tolerance from 0°C to +70°C	°C	1.0
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

3K3A1 Series 1 Thermistor

MECHANICAL DETAILS



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

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
----------	------

-40	100619
-39	94180
-38	88194
-37	82625
-36	77442
-35	72616
-34	68121
-33	63932
-32	60026
-31	56382
-30	52982
-29	49808
-28	46843
-27	44073
-26	41484
-25	39062
-24	36796
-23	34676
-22	32690
-21	30830
-20	29087
-19	27453
-18	25921

Temp. °C	Ohms
----------	------

-17	24483
-16	23134
-15	21867
-14	20676
-13	19558
-12	18507
-11	17518
-10	16588
-9	15713
-8	14890
-7	14114
-6	13383
-5	12694
-4	12045
-3	11433
-2	10855
-1	10310
0	9795
1	9309
2	8850
3	8416
4	8006
5	7619

Temp. °C	Ohms
----------	------

6	7252
7	6905
8	6577
9	6266
10	5971
11	5692
12	5428
13	5177
14	4940
15	4714
16	4500
17	4297
18	4105
19	3922
20	3748
21	3583
22	3426
23	3277
24	3135
25	3000
26	2872
27	2749
28	2633

Temp. °C	Ohms
----------	------

29	2522
30	2417
31	2316
32	2220
33	2129
34	2042
35	1959
36	1880
37	1804
38	1732
39	1663
40	1597
41	1535
42	1475
43	1417
44	1362
45	1310
46	1260
47	1212
48	1166
49	1122
50	1080
51	1040

3K3A1 Series 1 Thermistor

52	1002	71	508	90	275	109	157
53	965	72	491	91	267	110	153
54	929	73	475	92	259	111	149
55	895	74	459	93	251	112	145
56	863	75	444	94	243	113	141
57	832	76	430	95	236	114	137
58	802	77	416	96	229	115	133
59	774	78	402	97	222	116	130
60	746	79	389	98	216	117	126
61	720	80	377	99	210	118	123
62	695	81	365	100	204	119	120
63	670	82	353	101	198	120	117
64	647	83	342	102	192	121	114
65	625	84	332	103	187	122	111
66	603	85	321	104	181	123	108
67	583	86	311	105	176	124	105
68	563	87	302	106	171	125	102
69	544	88	292	107	167		
70	525	89	283	108	162		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
3K3A1A	Series 1 Thermistor	3,000	1,000*
3K3A1B	Series 1 Thermistor	3,000	1,000*
3K3A1C	Series 1 Thermistor	3,000	1,000*
3K3A1D	Series 1 Thermistor	3,000	1,000*

* For quantities less than Minimum Order Quantity – Contact Distribution

NORTH AMERICA

Measurement Specialties, Inc.
910 Turnpike Road
Shrewsbury, MA 01545
Tel: 1-508-842-0516
Fax: 1-508-842-0342

Sales email:
temperature.sales.amer@meas-spec.com

EUROPE

Measurement Specialties, Inc
Ballybrit Business Park
Galway Ireland
Tel: +353-91-753238
Fax: +353-91-770789

Sales email:
temperature.sales.emea@meas-spec.com

ASIA

Measurement Specialties (China) Ltd.
No. 26 Langshan Road
Shenzhen High-Tech Park (North)
Nanshan District, Shenzhen 51807
China
Tel: +86 (0) 755 33305088
Fax: +86 (0) 755 33305099

Sales email:
temperature.sales.asia@meas-spec.com

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