



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

30K6A1 SERIES 1 THERMISTOR

SPECIFICATIONS

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

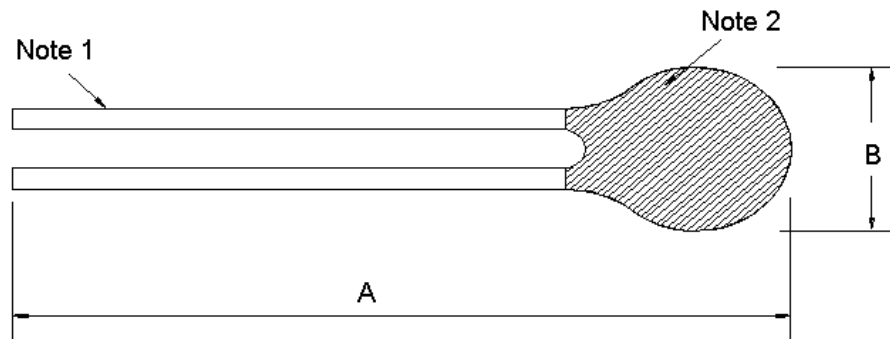
The BetaCURVE Chip is Soldered to 32 AWG Alloy 180 Leads and Encapsulated in Stycast Epoxy Resin.

30K6A1 SERIES 1 THERMISTOR

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	30,000
30K5A1A Resistance tolerance from 0°C to +70°C	°C	± 0.1
30K5A1B Resistance tolerance from 0°C to +70°C	°C	± 0.2
30K5A1C Resistance tolerance from 0°C to +70°C	°C	± 0.5
30K5A1D Resistance tolerance from 0°C to +70°C	°C	± 1.0
Alpha Value @ 25°C	%/°C	4.30
Beta Value 25/85	K	3942
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	B
	76 ± 2mm	2.4mm Max
Note 1	32 AWG Solid Alloy 180 Leads	
Note 2	White Stycast 2850ft Epoxy	

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RESISTANCE V TEMPERATURE TABLE

Temp °C	Ohms
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-40	1219114
-39	1137677
-38	1062161
-37	992104
-36	927079
-35	866698
-34	810604
-33	758469
-32	709991
-31	664894
-30	622924
-29	583847
-28	547448
-27	513528
-26	481906
-25	452413
-24	424895
-23	399208
-22	375221
-21	352813
-20	331871
-19	312291
-18	293977
-17	276841
-16	260801
-15	245781
-14	231711
-13	218526
-12	206164
-11	194572
-10	183696
-9	173489
-8	163905
-7	154905
-6	146449
-5	138501
-4	131028
-3	124000
-2	117388
-1	111164
0	105305
1	99787

Temp °C	Ohms
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2	94588
3	89688
4	85069
5	80712
6	76603
7	72725
8	69064
9	65608
10	62343
11	59258
12	56342
13	53585
14	50978
15	48512
16	46178
17	43969
18	41877
19	39896
20	38019
21	36240
22	34554
23	32955
24	31439
25	30000
26	28635
27	27339
28	26108
29	24939
30	23828
31	22773
32	21770
33	20816
34	19909
35	19047
36	18225
37	17444
38	16700
39	15992
40	15317
41	14674
42	14062
43	13478

Temp °C	Ohms
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44	12921
45	12390
46	11884
47	11400
48	10939
49	10499
50	10079
51	9678
52	9294
53	8928
54	8578
55	8244
56	7924
57	7618
58	7325
59	7046
60	6778
61	6521
62	6276
63	6041
64	5816
65	5601
66	5394
67	5196
68	5007
69	4825
70	4651
71	4483
72	4323
73	4169
74	4022
75	3880
76	3744
77	3613
78	3488
79	3367
80	3251
81	3140
82	3033
83	2930
84	2832
85	2737

Temp °C	Ohms
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86	2645
87	2557
88	2473
89	2392
90	2313
91	2238
92	2165
93	2095
94	2028
95	1963
96	1901
97	1841
98	1783
99	1727
100	1673
101	1621
102	1571
103	1522
104	1476
105	1431
106	1387
107	1345
108	1305
109	1266
110	1228
111	1192
112	1156
113	1123
114	1090
115	1058
116	1027
117	998
118	969
119	941
120	915
121	889
122	864
123	839
124	816
125	793

30K6A1 SERIES 1 THERMISTOR

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
30K6A1A	Series 1 Thermistor	30,000	1,000*
30K6A1B	Series 1 Thermistor	30,000	1,000*
30K6A1C	Series 1 Thermistor	30,000	1,000*
30K6A1D	Series 1 Thermistor	30,000	1,000*

* For quantities less than Minimum Order Quantity – Contact Distribution

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