

2.2K3A1I Series II Thermistor



- Thermally conductive epoxy coating
- Ø 2.4 mm Maximum Diameter
- 30 AWG Solid Silver Plated Copper Leads with White PTFE Insulation
- Choice of 4 temperature tolerance classifications
- RoHS Compliant

DESCRIPTION

The BetaCURVE Chip is Soldered to 30 AWG Solid Silver Plated Copper Leads with White PTFE Insulation Device is Encapsulated in Stycast Epoxy Resin

FEATURES

Interchangeability
Proven Stability and Reliability
Rapid time response
PTFE Insulated lead Wires
Thermally Conductive Epoxy Coating
Temperature range -40 °C to +125°C

APPLICATIONS

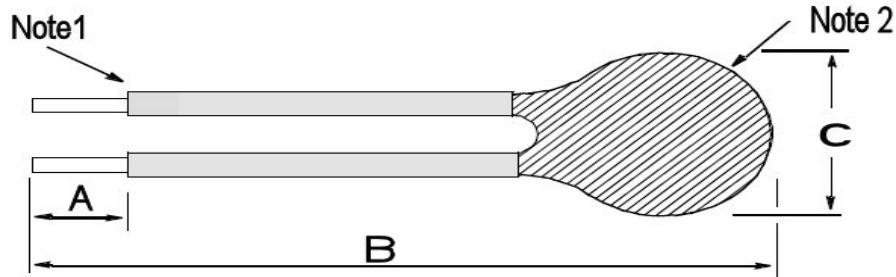
Temperature sensing, control and compensation
Tight Tolerance Instrumentation
Assembly into probes for a wide variety of applications
General Instrumentation applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	2,252
2.2K3A1IA Resistance tolerance from 0°C to +70°C	°C	±0.1
2.2K3A1IB Resistance tolerance from 0°C to +70°C	°C	±0.2
2.2K3A1IC Resistance tolerance from 0°C to +70°C	°C	±0.5
2.2K3A1ID 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	0.85

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MECHANICAL DETAILS



	Dimensions		
	A	B	C
	10 ± 2mm	76 ± 2mm	2.4mm Max
Note 1	30AWG Solid Silver Plated Copper Leads with White PTFE Insulation		
Note 2	Brown Stycast 2850ft Epoxy		

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	75491	-17	18377	6	5444	29	1893
-39	70663	-16	17364	7	5183	30	1814
-38	66173	-15	16413	8	4937	31	1739
-37	61996	-14	15520	9	4703	32	1667
-36	58109	-13	14681	10	4482	33	1598
-35	54489	-12	13892	11	4273	34	1533
-34	51118	-11	13150	12	4075	35	1471
-33	47975	-10	12452	13	3886	36	1411
-32	45045	-9	11795	14	3708	37	1354
-31	42312	-8	11177	15	3539	38	1300
-30	39761	-7	10595	16	3378	39	1248
-29	37380	-6	10046	17	3226	40	1199
-28	35156	-5	9529	18	3081	41	1152
-27	33077	-4	9042	19	2944	42	1107
-26	31134	-3	8582	20	2814	43	1064
-25	29317	-2	8148	21	2690	44	1023
-24	27617	-1	7739	22	2572	45	983
-23	26026	0	7353	23	2460	46	946
-22	24536	1	6988	24	2353	47	910
-21	23140	2	6644	25	2252	48	875
-20	21832	3	6318	26	2156	49	842
-19	20606	4	6010	27	2064	50	811
-18	19456	5	5719	28	1977	51	781

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52	752	71	381	90	206	109	118
53	724	72	369	91	200	110	115
54	698	73	356	92	194	111	112
55	672	74	345	93	188	112	109
56	648	75	333	94	183	113	106
57	624	76	322	95	177	114	103
58	602	77	312	96	172	115	100
59	581	78	302	97	167	116	98
60	560	79	292	98	162	117	95
61	540	80	283	99	157	118	92
62	521	81	274	100	153	119	90
63	503	82	265	101	149	120	88
64	486	83	257	102	144	121	85
65	469	84	249	103	140	122	83
66	453	85	241	104	136	123	81
67	437	86	234	105	132	124	79
68	422	87	226	106	129	125	77
69	408	88	220	107	125		
70	394	89	213	108	122		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
2.2K3A1IA	Series II Thermistor	2,252	1,000*
2.2K3A1IB	Series II Thermistor	2,252	1,000*
2.2K3A1IC	Series II Thermistor	2,252	1,000*
2.2K3A1ID	Series II Thermistor	2,252	1,000*

* For quantities less than Minimum Order Quantity – Contact Distribution

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