



## 10K4A1I SERIES II THERMISTOR

### SPECIFICATIONS

- 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

### FEATURES

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

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

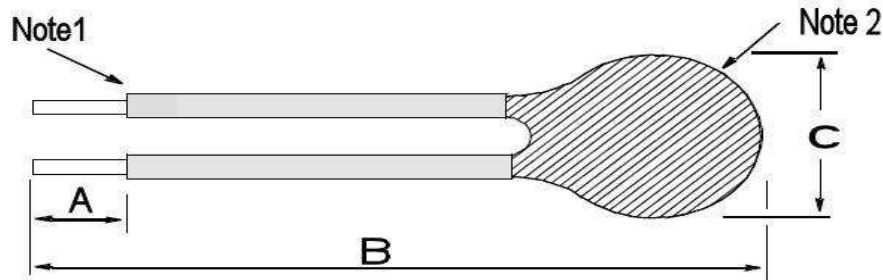
### APPLICATIONS

- 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	10,000
10K4A1IA Resistance tolerance from 0°C to +70°C	°C	± 0.1
10K4A1IB Resistance tolerance from 0°C to +70°C	°C	± 0.2
10K4A1IC Resistance tolerance from 0°C to +70°C	°C	± 0.5
10K4A1ID Resistance tolerance from 0°C to +70°C	°C	± 1.0
Alpha Value @ 25°C	%/°C	4.04
Beta Value 25/85	K	3694
Tolerance on Beta Value 25/85	%	± 0.5
Time response in Liquids	Seconds	<1
Dissipation Constant in still air	mW/°C	0.85

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	Black Stycast 2850ft Epoxy		

**RESISTANCE V TEMPERATURE TABLE**

Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms
-40	239828	2	26891	44	4828	86	1218
-39	226103	3	25689	45	4656	87	1183
-38	213243	4	24547	46	4490	88	1149
-37	201188	5	23462	47	4332	89	1116
-36	189885	6	22431	48	4180	90	1084
-35	179282	7	21450	49	4034	91	1053
-34	169331	8	20518	50	3893	92	1023
-33	159991	9	19631	51	3759	93	994
-32	151219	10	18787	52	3629	94	967
-31	142978	11	17983	53	3505	95	940
-30	135233	12	17219	54	3386	96	913
-29	127952	13	16490	55	3271	97	888
-28	121104	14	15797	56	3160	98	864
-27	114661	15	15136	57	3054	99	840
-26	108598	16	14506	58	2952	100	817
-25	102889	17	13906	59	2854	101	795
-24	97513	18	13334	60	2760	102	774
-23	92448	19	12788	61	2669	103	753
-22	87675	20	12268	62	2582	104	733
-21	83174	21	11771	63	2498	105	713
-20	78930	22	11297	64	2417	106	694
-19	74926	23	10845	65	2339	107	676
-18	71148	24	10413	66	2264	108	658
-17	67581	25	10000	67	2191	109	641
-16	64212	26	9606	68	2122	110	624
-15	61031	27	9229	69	2055	111	608
-14	58024	28	8869	70	1990	112	592
-13	55182	29	8525	71	1928	113	577
-12	52495	30	8196	72	1868	114	562
-11	49954	31	7882	73	1810	115	548
-10	47549	32	7581	74	1754	116	534
-9	45274	33	7293	75	1700	117	521
-8	43119	34	7018	76	1648	118	507
-7	41079	35	6754	77	1598	119	495
-6	39147	36	6501	78	1550	120	482
-5	37316	37	6260	79	1503	121	470
-4	35580	38	6028	80	1458	122	459
-3	33935	39	5806	81	1414	123	448
-2	32375	40	5594	82	1372	124	437
-1	30895	41	5390	83	1332	125	426
0	29490	42	5195	84	1293		
1	28157	43	5007	85	1255		

## ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
10K4A1IA	Series II Thermistor	10,000	1,000*
10K4A1IB	Series II Thermistor	10,000	1,000*
10K4A1IC	Series II Thermistor	10,000	1,000*
10K4A1ID	Series II Thermistor	10,000	1,000*

\* For quantities less than Minimum Order Quantity – Contact Distribution

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