



GA30K5A1i SERIES II THERMISTORS

Thermally Conductive Epoxy Coating

Ø 2.4 mm Maximum Diameter

30 AWG Solid Silver-Plated Copper Leads
with White PTFE Insulation

Four Temperature Tolerance Classifications Available

RoHS Compliant

BetaCURVE series II thermistors are small epoxy coated devices with solid tin-plated lead wires. The series II offers insulated lead wires for added protection, the PTFE insulation also enhances bonding for applications that require mounting or potting the thermistor with epoxies or adhesives. This series also offers a choice of precision temperature tolerance classifications for a wide variety of applications.

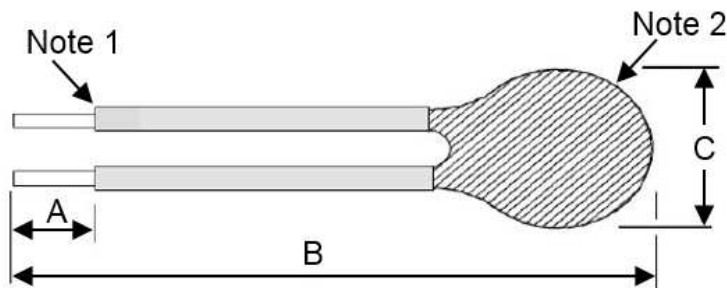
FEATURES

- Interchangeability
- Proven stability and reliability
- Rapid time response
- PTFE insulated lead wires
- Thermally conductive epoxy coating
- Temperature range -40°C to +125°C
- Custom probe assemblies available

APPLICATIONS

- Temperature sensing, control and compensation
- Tight tolerance instrumentation
- General instrumentation applications

MECHANICAL DETAILS



DIMENSIONS

A	B	C
10 ±2 mm	76 ±2 mm	2.4 mm max.

Note 1: 30AWG Solid Silver-Plated Copper Leads with White PTFE Insulation
Note 2: White Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	30,000
GA30K5A1iA Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA30K5A1iB Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA30K5A1iC Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA30K5A1iD Resistance Tolerance from 0°C to +70°C	°C	±1.0
Alpha Value at +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	0.85

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	884198	2	86090	44	13799	86	3172
-39	830463	3	81996	45	13274	87	3074
-38	780301	4	78119	46	12772	88	2979
-37	733457	5	74445	47	12292	89	2888
-36	689693	6	70964	48	11831	90	2800
-35	648790	7	67663	49	11391	91	2715
-34	610546	8	64534	50	10968	92	2633
-33	574773	9	61565	51	10564	93	2554
-32	541299	10	58749	52	10176	94	2477
-31	509964	11	56076	53	9805	95	2403
-30	480620	12	53539	54	9449	96	2332
-29	453130	13	51129	55	9107	97	2263
-28	427367	14	48841	56	8780	98	2197
-27	403213	15	46667	57	8466	99	2132
-26	380560	16	44601	58	8164	100	2070
-25	359305	17	42637	59	7875	101	2010
-24	339357	18	40769	60	7597	102	1952
-23	320627	19	38993	61	7331	103	1896
-22	303035	20	37303	62	7075	104	1842
-21	286506	21	35696	63	6829	105	1789
-20	270969	22	34166	64	6593	106	1739
-19	256362	23	32709	65	6366	107	1690
-18	242622	24	31321	66	6148	108	1642
-17	229694	25	30000	67	5939	109	1596
-16	217526	26	28741	68	5738	110	1552
-15	206069	27	27541	69	5544	111	1509
-14	195278	28	26398	70	5358	112	1467
-13	185111	29	25307	71	5179	113	1427
-12	175529	30	24268	72	5007	114	1388
-11	166495	31	23276	73	4841	115	1350
-10	157975	32	22329	74	4682	116	1314
-9	149937	33	21426	75	4528	117	1278
-8	142352	34	20564	76	4381	118	1244
-7	135191	35	19741	77	4239	119	1211
-6	128429	36	18955	78	4102	120	1178
-5	122041	37	18204	79	3970	121	1147
-4	116006	38	17487	80	3843	122	1117
-3	110301	39	16801	81	3721	123	1087
-2	104907	40	16146	82	3603	124	1059
-1	99806	41	15519	83	3489	125	1031
0	94980	42	14920	84	3380		
1	90413	43	14347	85	3274		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA30K5A1iA	Series II thermistor	30,000	1,000
GA30K5A1iB	Series II thermistor	30,000	1,000
GA30K5A1iC	Series II thermistor	30,000	1,000
GA30K5A1iD	Series II thermistor	30,000	1,000

* For quantities less than MOQ (Minimum Order Quantity) contact distribution

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