



GA10K3A1i 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.

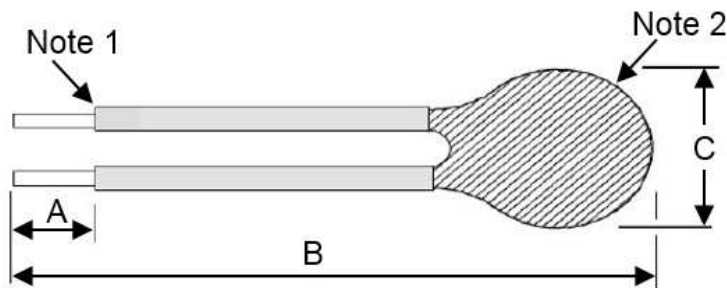
FEATURES

- 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: Yellow Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
GA10K3A1iA Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA10K3A1iB Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA10K3A1iC Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA10K3A1iD Resistance Tolerance from 0°C to +70°C	°C	±1.0
Alpha Value at +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

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	336098	2	29500	44	4542	86	1037
-39	314553	3	28054	45	4367	87	1005
-38	294524	4	26687	46	4200	88	974
-37	275897	5	25395	47	4040	89	945
-36	258563	6	24172	48	3887	90	916
-35	242427	7	23016	49	3741	91	888
-34	227398	8	21921	50	3601	92	862
-33	213394	9	20885	51	3467	93	836
-32	200339	10	19903	52	3339	94	811
-31	188163	11	18973	53	3216	95	787
-30	176803	12	18092	54	3098	96	764
-29	166198	13	17257	55	2985	97	741
-28	156294	14	16465	56	2877	98	720
-27	147042	15	15714	57	2773	99	699
-26	138393	16	15001	58	2674	100	678
-25	130306	17	14324	59	2579	101	659
-24	122741	18	13682	60	2487	102	640
-23	115661	19	13073	61	2399	103	622
-22	109032	20	12493	62	2315	104	604
-21	102824	21	11943	63	2234	105	587
-20	97006	22	11420	64	2157	106	571
-19	91553	23	10923	65	2082	107	555
-18	86439	24	10450	66	2011	108	539
-17	81641	25	10000	67	1942	109	524
-16	77138	26	9572	68	1876	110	510
-15	72911	27	9165	69	1813	111	496
-14	68940	28	8777	70	1752	112	482
-13	65209	29	8408	71	1693	113	469
-12	61703	30	8056	72	1637	114	457
-11	58405	31	7721	73	1582	115	444
-10	55304	32	7402	74	1530	116	432
-9	52385	33	7097	75	1480	117	421
-8	49638	34	6807	76	1432	118	410
-7	47050	35	6530	77	1385	119	399
-6	44613	36	6266	78	1341	120	388
-5	42317	37	6014	79	1298	121	378
-4	40151	38	5774	80	1256	122	368
-3	38110	39	5544	81	1216	123	359
-2	36184	40	5325	82	1178	124	350
-1	34366	41	5116	83	1141	125	341
0	32651	42	4916	84	1105		
1	31031	43	4724	85	1070		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA10K3A1iA	Series II thermistor	10,000	1,000
GA10K3A1iB	Series II thermistor	10,000	1,000
GA10K3A1iC	Series II thermistor	10,000	1,000
GA10K3A1iD	Series II thermistor	10,000	1,000

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

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