



GA10K4A1i 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.

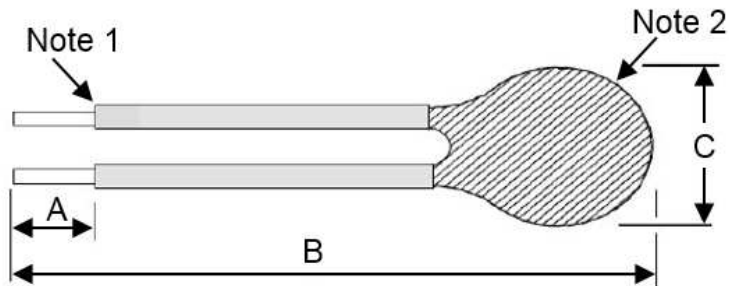
FEATURES

- 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: Black Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10,000
GA10K4A1iA Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA10K4A1iB Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA10K4A1iC Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA10K4A1iD Resistance Tolerance from 0°C to +70°C	°C	±1.0
Alpha Value at +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

RESISTANCE V TEMPERATURE TABLE

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

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA10K4A1iA	Series II thermistor	10,000	1,000
GA10K4A1iB	Series II thermistor	10,000	1,000
GA10K4A1iC	Series II thermistor	10,000	1,000
GA10K4A1iD	Series II thermistor	10,000	1,000

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

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