



GA30K6A1 SERIES I THERMISTORS

Thermally Conductive Epoxy Coating

Ø 2.4 mm Maximum Diameter

32 AWG Alloy 180 Leads

Four Temperature Tolerance Classifications Available

RoHS Compliant

BetaCURVE series I thermistors are small epoxy coated devices with solid tin-plated lead wires. The series I offers a choice of precision temperature tolerance classifications for a wide variety of customer applications, such as temperature measurements, temperature indication, temperature control, and thermal compensation.

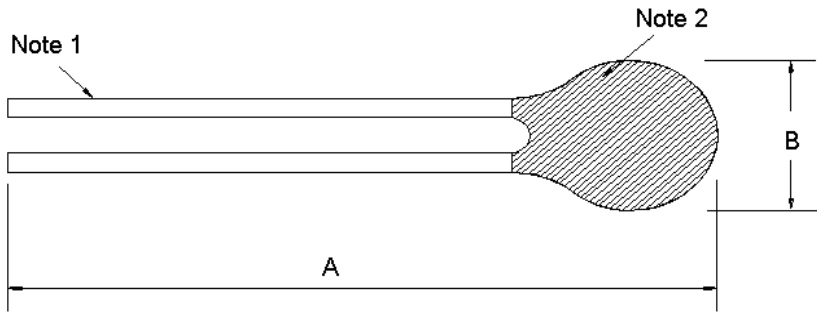
FEATURES

- Interchangeability
- Proven stability and reliability
- Rapid time response
- Alloy lead wires for reduced thermal conductivity ("stem effect")
- 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
76 ±2 mm	2.4 mm max.

Note 1: 32 AWG Solid Alloy 180 Leads
Note 2: Green Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	30,000
GA30K5A1A Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA30K5A1B Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA30K5A1C Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA30K5A1D Resistance Tolerance from 0°C to +70°C	°C	±1.0
Alpha Value at +25°C	%/°C	4.68
Beta Value 25/85	K	4261
Tolerance on Beta Value 25/85	%	±0.5
Time Response in Liquids	Seconds	<1
Dissipation Constant in Still Air	mW/°C	0.75

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	1219114	2	94588	44	12921	86	2645
-39	1137677	3	89688	45	12390	87	2557
-38	1062161	4	85069	46	11884	88	2473
-37	992104	5	80712	47	11400	89	2392
-36	927079	6	76603	48	10939	90	2313
-35	866698	7	72725	49	10499	91	2238
-34	810604	8	69064	50	10079	92	2165
-33	758469	9	65608	51	9678	93	2095
-32	709991	10	62343	52	9294	94	2028
-31	664894	11	59258	53	8928	95	1963
-30	622924	12	56342	54	8578	96	1901
-29	583847	13	53585	55	8244	97	1841
-28	547448	14	50978	56	7924	98	1783
-27	513528	15	48512	57	7618	99	1727
-26	481906	16	46178	58	7325	100	1673
-25	452413	17	43969	59	7046	101	1621
-24	424895	18	41877	60	6778	102	1571
-23	399208	19	39896	61	6521	103	1522
-22	375221	20	38019	62	6276	104	1476
-21	352813	21	36240	63	6041	105	1431
-20	331871	22	34554	64	5816	106	1387
-19	312291	23	32955	65	5601	107	1345
-18	293977	24	31439	66	5394	108	1305
-17	276841	25	30000	67	5196	109	1266
-16	260801	26	28635	68	5007	110	1228
-15	245781	27	27339	69	4825	111	1192
-14	231711	28	26108	70	4651	112	1156
-13	218526	29	24939	71	4483	113	1123
-12	206164	30	23828	72	4323	114	1090
-11	194572	31	22773	73	4169	115	1058
-10	183696	32	21770	74	4022	116	1027
-9	173489	33	20816	75	3880	117	998
-8	163905	34	19909	76	3744	118	969
-7	154905	35	19047	77	3613	119	941
-6	146449	36	18225	78	3488	120	915
-5	138501	37	17444	79	3367	121	889
-4	131028	38	16700	80	3251	122	864
-3	124000	39	15992	81	3140	123	839
-2	117388	40	15317	82	3033	124	816
-1	111164	41	14674	83	2930	125	793
0	105305	42	14062	84	2832		
1	99787	43	13478	85	2737		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA30K6A1A	Series I thermistor	30,000	1,000
GA30K6A1B	Series I thermistor	30,000	1,000
GA30K6A1C	Series I thermistor	30,000	1,000
GA30K6A1D	Series I thermistor	30,000	1,000

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

NORTH AMERICA
Tel +1 800 522 6752
customercare.ando@te.com

EUROPE
Tel +31 73 624 6999
customercare.glw@te.com

ASIA
Tel +86 0400 820 6015
customercare.chdu@te.com

te.com/sensorsolutions

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