



GA50K6A1i SERIES II THERMISTORS

Thermally Conductive Epoxy Coating

Ø 2.4 mm Maximum Diameter

32 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.

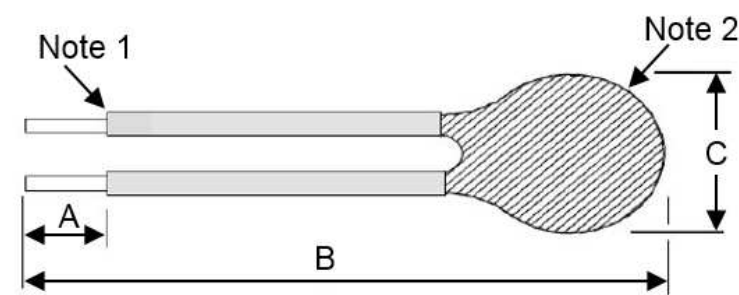
FEATURES

- 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: Blue Stycast 2850ft Epoxy

PERFORMANCE SPECS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	50,000
GA50K6A1iA Resistance Tolerance from 0°C to +70°C	°C	±0.1
GA50K6A1iB Resistance Tolerance from 0°C to +70°C	°C	±0.2
GA50K6A1iC Resistance Tolerance from 0°C to +70°C	°C	±0.5
GA50K6A1iD 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	0.85

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	2033476	2	157645	44	21536	86	4408
-39	1897553	3	149478	45	20651	87	4262
-38	1771522	4	141779	46	19807	88	4121
-37	1654608	5	134519	47	19001	89	3985
-36	1546100	6	127670	48	18233	90	3855
-35	1445347	7	121206	49	17499	91	3729
-34	1351752	8	115105	50	16799	92	3608
-33	1264768	9	109344	51	16130	93	3492
-32	1183890	10	103902	52	15491	94	3379
-31	1108657	11	98761	53	14881	95	3271
-30	1038644	12	93901	54	14297	96	3167
-29	973460	13	89307	55	13740	97	3067
-28	912745	14	84962	56	13207	98	2970
-27	856170	15	80852	57	12697	99	2877
-26	803428	16	76962	58	12209	100	2787
-25	754240	17	73280	59	11743	101	2700
-24	708347	18	69794	60	11297	102	2617
-23	665510	19	66492	61	10869	103	2536
-22	625510	20	63364	62	10460	104	2459
-21	588143	21	60400	63	10069	105	2384
-20	553222	22	57590	64	9694	106	2311
-19	520574	23	54925	65	9335	107	2241
-18	490038	24	52398	66	8990	108	2174
-17	461467	25	50000	67	8661	109	2109
-16	434724	26	47724	68	8345	110	2046
-15	409682	27	45564	69	8041	111	1985
-14	386224	28	43513	70	7751	112	1927
-13	364242	29	41565	71	7472	113	1870
-12	343634	30	39715	72	7205	114	1815
-11	324308	31	37956	73	6948	115	1762
-10	306178	32	36284	74	6702	116	1711
-9	289162	33	34695	75	6466	117	1662
-8	273187	34	33183	76	6239	118	1614
-7	258184	35	31745	77	6022	119	1568
-6	244088	36	30376	78	5812	120	1523
-5	230839	37	29074	79	5612	121	1480
-4	218384	38	27834	80	5419	122	1438
-3	206669	39	26654	81	5233	123	1398
-2	195647	40	25529	82	5055	124	1359
-1	185274	41	24458	83	4884	125	1321
0	175508	42	23437	84	4719		
1	166310	43	22463	85	4561		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ*
GA50K6A1iA	Series II thermistor	50,000	1,000
GA50K6A1iB	Series II thermistor	50,000	1,000
GA50K6A1iC	Series II thermistor	50,000	1,000
GA50K6A1iD	Series II thermistor	50,000	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.glwy@te.com

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

te.com/sensorsolutions

BetaCurve, TE Connectivity, TE, and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, products and/or company names referred to herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2018 TE Connectivity Ltd. family of companies All Rights Reserved.