



GA2.2K3A1i 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.

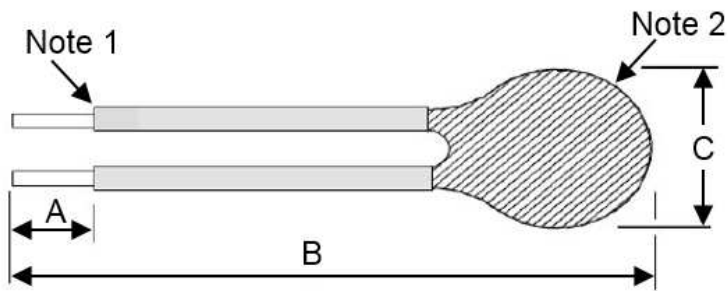
FEATURES

- Interchangeability
- Proven stability and reliability
- 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: Brown Stycast 2850ft Epoxy

PERFORMANCE SPECS

| Parameters | Units | Value |
|--|---------|-------|
| Nominal Resistance at +25°C | Ohms | 2,252 |
| GA2.2K3A1iA Resistance Tolerance from 0°C to +70°C | °C | ±0.1 |
| GA2.2K3A1iB Resistance Tolerance from 0°C to +70°C | °C | ±0.2 |
| GA2.2K3A1iC Resistance Tolerance from 0°C to +70°C | °C | ±0.5 |
| GA2.2K3A1iD 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 |
|----------|-------|
| -40 | 75491 |
| -39 | 70663 |
| -38 | 66173 |
| -37 | 61996 |
| -36 | 58109 |
| -35 | 54489 |
| -34 | 51118 |
| -33 | 47975 |
| -32 | 45045 |
| -31 | 42312 |
| -30 | 39761 |
| -29 | 37380 |
| -28 | 35156 |
| -27 | 33077 |
| -26 | 31134 |
| -25 | 29317 |
| -24 | 27617 |
| -23 | 26026 |
| -22 | 24536 |
| -21 | 23140 |
| -20 | 21832 |
| -19 | 20606 |
| -18 | 19456 |
| -17 | 18377 |
| -16 | 17364 |
| -15 | 16413 |
| -14 | 15520 |
| -13 | 14681 |
| -12 | 13892 |
| -11 | 13150 |
| -10 | 12452 |
| -9 | 11795 |
| -8 | 11177 |
| -7 | 10595 |
| -6 | 10046 |
| -5 | 9529 |
| -4 | 9042 |
| -3 | 8582 |
| -2 | 8148 |
| -1 | 7739 |
| 0 | 7353 |
| 1 | 6988 |

| Temp. °C | Ohms |
|----------|------|
| 2 | 6644 |
| 3 | 6318 |
| 4 | 6010 |
| 5 | 5719 |
| 6 | 5444 |
| 7 | 5183 |
| 8 | 4937 |
| 9 | 4703 |
| 10 | 4482 |
| 11 | 4273 |
| 12 | 4075 |
| 13 | 3886 |
| 14 | 3708 |
| 15 | 3539 |
| 16 | 3378 |
| 17 | 3226 |
| 18 | 3081 |
| 19 | 2944 |
| 20 | 2814 |
| 21 | 2690 |
| 22 | 2572 |
| 23 | 2460 |
| 24 | 2353 |
| 25 | 2252 |
| 26 | 2156 |
| 27 | 2064 |
| 28 | 1977 |
| 29 | 1893 |
| 30 | 1814 |
| 31 | 1739 |
| 32 | 1667 |
| 33 | 1598 |
| 34 | 1533 |
| 35 | 1471 |
| 36 | 1411 |
| 37 | 1354 |
| 38 | 1300 |
| 39 | 1248 |
| 40 | 1199 |
| 41 | 1152 |
| 42 | 1107 |
| 43 | 1064 |

| Temp. °C | Ohms |
|----------|------|
| 44 | 1023 |
| 45 | 983 |
| 46 | 946 |
| 47 | 910 |
| 48 | 875 |
| 49 | 842 |
| 50 | 811 |
| 51 | 781 |
| 52 | 752 |
| 53 | 724 |
| 54 | 698 |
| 55 | 672 |
| 56 | 648 |
| 57 | 624 |
| 58 | 602 |
| 59 | 581 |
| 60 | 560 |
| 61 | 540 |
| 62 | 521 |
| 63 | 503 |
| 64 | 486 |
| 65 | 469 |
| 66 | 453 |
| 67 | 437 |
| 68 | 422 |
| 69 | 408 |
| 70 | 394 |
| 71 | 381 |
| 72 | 369 |
| 73 | 356 |
| 74 | 345 |
| 75 | 333 |
| 76 | 322 |
| 77 | 312 |
| 78 | 302 |
| 79 | 292 |
| 80 | 283 |
| 81 | 274 |
| 82 | 265 |
| 83 | 257 |
| 84 | 249 |
| 85 | 241 |

| Temp. °C | Ohms |
|----------|------|
| 86 | 234 |
| 87 | 226 |
| 88 | 220 |
| 89 | 213 |
| 90 | 206 |
| 91 | 200 |
| 92 | 194 |
| 93 | 188 |
| 94 | 183 |
| 95 | 177 |
| 96 | 172 |
| 97 | 167 |
| 98 | 162 |
| 99 | 157 |
| 100 | 153 |
| 101 | 149 |
| 102 | 144 |
| 103 | 140 |
| 104 | 136 |
| 105 | 132 |
| 106 | 129 |
| 107 | 125 |
| 108 | 122 |
| 109 | 118 |
| 110 | 115 |
| 111 | 112 |
| 112 | 109 |
| 113 | 106 |
| 114 | 103 |
| 115 | 100 |
| 116 | 98 |
| 117 | 95 |
| 118 | 92 |
| 119 | 90 |
| 120 | 88 |
| 121 | 85 |
| 122 | 83 |
| 123 | 81 |
| 124 | 79 |
| 125 | 77 |

ORDERING INFORMATION

| Part Number | Description | Ω @25°C | MOQ* |
|-------------|----------------------|----------------|-------|
| GA2.2K3A1iA | Series II thermistor | 2,252 | 1,000 |
| GA2.2K3A1iB | Series II thermistor | 2,252 | 1,000 |
| GA2.2K3A1iC | Series II thermistor | 2,252 | 1,000 |
| GA2.2K3A1iD | Series II thermistor | 2,252 | 1,000 |

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

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