

MINIATURE AXIAL GLASS THERMISTOR

SPECIFICATIONS

- Glass hermetic encapsulation with high resistance to humid environments
- Wide operating temperature range
- High stability
- Fast response time
- RoHS Compliant

The NTC Chip hermetically sealed in a miniature glass encapsulation package

MINIATURE AXIAL GLASS THERMISTOR

FEATURES

- Hermetically sealed glass package
- High stability at elevated temperatures
- Available in $\pm 20\%$ tolerance @ $+25^{\circ}\text{C}$
- Fast time response
- Pt/Ir lead wires suitable for welding
- Temperature range -40°C to $+250^{\circ}\text{C}$

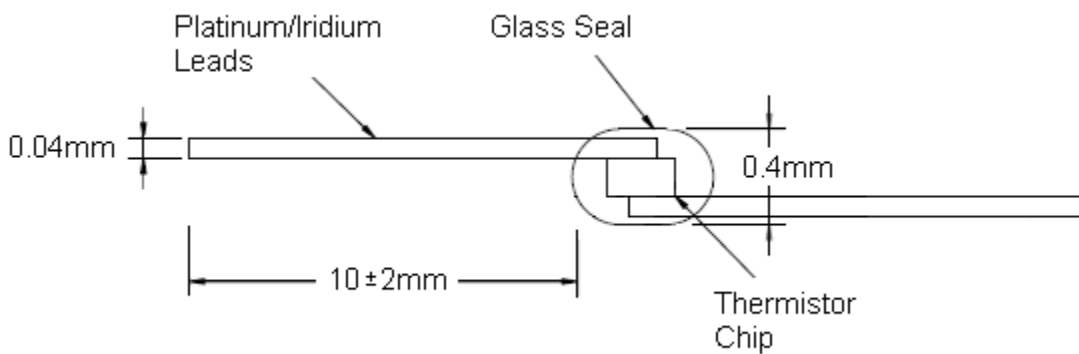
APPLICATIONS

- Air flow detection systems
- Blood analysis
- Liquid level sensing
- Platen Temperature sensing
- Medical Catheter devices
- Fluid flow sensing

PERFORMANCE SPECS

| Parameters | Units | Value |
|--|------------------------------|----------|
| Resistance @ $+25^{\circ}\text{C}$ | Ohms | 10,000 |
| Resistance tolerance @ $+25^{\circ}\text{C}$ | % | ± 20 |
| Beta Value 25/85 | K | 3499 |
| Dissipation Constant in still air | $\text{mW}/^{\circ}\text{C}$ | 0.15 |
| Time response in still air | Second | < 1 |

MECHANICAL DETAILS



MINIATURE AXIAL GLASS THERMISTOR

RESISTANCE V TEMPERATURE TABLE

| Temp. °C | R Ohms |
|----------|--------|
|----------|--------|

| | |
|-----|---------|
| -40 | 217,645 |
| -39 | 205,391 |
| -38 | 193,904 |
| -37 | 183,132 |
| -36 | 173,026 |
| -35 | 163,541 |
| -34 | 154,635 |
| -33 | 146,270 |
| -32 | 138,408 |
| -31 | 131,019 |
| -30 | 124,069 |
| -29 | 117,531 |
| -28 | 111,377 |
| -27 | 105,584 |
| -26 | 100,127 |
| -25 | 94,986 |
| -24 | 90,140 |
| -23 | 85,571 |
| -22 | 81,261 |
| -21 | 77,195 |
| -20 | 73,356 |
| -19 | 69,731 |
| -18 | 66,308 |
| -17 | 63,073 |
| -16 | 60,015 |
| -15 | 57,124 |
| -14 | 54,389 |
| -13 | 51,802 |
| -12 | 49,352 |
| -11 | 47,034 |
| -10 | 44,838 |
| -9 | 42,757 |
| -8 | 40,785 |
| -7 | 38,916 |
| -6 | 37,143 |
| -5 | 35,461 |

| Temp. °C | R Ohms |
|----------|--------|
|----------|--------|

| | |
|-----------|---------------|
| -4 | 33,866 |
| -3 | 32,351 |
| -2 | 30,913 |
| -1 | 29,548 |
| 0 | 28,250 |
| 1 | 27,017 |
| 2 | 25,845 |
| 3 | 24,730 |
| 4 | 23,670 |
| 5 | 22,662 |
| 6 | 21,702 |
| 7 | 20,788 |
| 8 | 19,918 |
| 9 | 19,089 |
| 10 | 18,300 |
| 11 | 17,547 |
| 12 | 16,830 |
| 13 | 16,146 |
| 14 | 15,494 |
| 15 | 14,871 |
| 16 | 14,278 |
| 17 | 13,711 |
| 18 | 13,170 |
| 19 | 12,653 |
| 20 | 12,159 |
| 21 | 11,688 |
| 22 | 11,237 |
| 23 | 10,806 |
| 24 | 10,394 |
| 25 | 10,000 |
| 26 | 9,623 |
| 27 | 9,262 |
| 28 | 8,917 |
| 29 | 8,587 |
| 30 | 8,270 |
| 31 | 7,967 |

| Temp. °C | R Ohms |
|----------|--------|
|----------|--------|

| | |
|----|-------|
| 32 | 7,677 |
| 33 | 7,399 |
| 34 | 7,132 |
| 35 | 6,877 |
| 36 | 6,632 |
| 37 | 6,397 |
| 38 | 6,171 |
| 39 | 5,955 |
| 40 | 5,747 |
| 41 | 5,548 |
| 42 | 5,357 |
| 43 | 5,173 |
| 44 | 4,997 |
| 45 | 4,828 |
| 46 | 4,665 |
| 47 | 4,508 |
| 48 | 4,358 |
| 49 | 4,213 |
| 50 | 4,074 |
| 51 | 3,940 |
| 52 | 3,812 |
| 53 | 3,688 |
| 54 | 3,569 |
| 55 | 3,454 |
| 56 | 3,344 |
| 57 | 3,237 |
| 58 | 3,135 |
| 59 | 3,036 |
| 60 | 2,941 |
| 61 | 2,850 |
| 62 | 2,762 |
| 63 | 2,677 |
| 64 | 2,595 |
| 65 | 2,515 |
| 66 | 2,439 |
| 67 | 2,366 |

| Temp. °C | R Ohms |
|----------|--------|
|----------|--------|

| | |
|-----|-------|
| 68 | 2,295 |
| 69 | 2,226 |
| 70 | 2,160 |
| 71 | 2,096 |
| 72 | 2,035 |
| 73 | 1,975 |
| 74 | 1,918 |
| 75 | 1,862 |
| 76 | 1,808 |
| 77 | 1,757 |
| 78 | 1,706 |
| 79 | 1,658 |
| 80 | 1,611 |
| 81 | 1,566 |
| 82 | 1,522 |
| 83 | 1,480 |
| 84 | 1,439 |
| 85 | 1,399 |
| 86 | 1,361 |
| 87 | 1,324 |
| 88 | 1,288 |
| 89 | 1,253 |
| 90 | 1,220 |
| 91 | 1,187 |
| 92 | 1,155 |
| 93 | 1,125 |
| 94 | 1,095 |
| 95 | 1,067 |
| 96 | 1,039 |
| 97 | 1,012 |
| 98 | 986 |
| 99 | 960 |
| 100 | 936 |
| 101 | 912 |
| 102 | 889 |
| 103 | 866 |

MINIATURE AXIAL GLASS THERMISTOR

| | |
|-----|-----|
| 104 | 845 |
| 105 | 824 |
| 106 | 803 |
| 107 | 783 |
| 108 | 764 |
| 109 | 745 |
| 110 | 727 |
| 111 | 710 |
| 112 | 692 |
| 113 | 676 |
| 114 | 660 |
| 115 | 644 |
| 116 | 629 |
| 117 | 614 |
| 118 | 599 |
| 119 | 585 |
| 120 | 572 |
| 121 | 559 |
| 122 | 546 |
| 123 | 533 |
| 124 | 521 |
| 125 | 509 |
| 126 | 498 |
| 127 | 486 |
| 128 | 475 |
| 129 | 465 |
| 130 | 455 |
| 131 | 444 |
| 132 | 435 |
| 133 | 425 |
| 134 | 416 |
| 135 | 407 |
| 136 | 398 |
| 137 | 389 |
| 138 | 381 |
| 139 | 373 |

| | |
|-----|-----|
| 140 | 365 |
| 141 | 357 |
| 142 | 350 |
| 143 | 342 |
| 144 | 335 |
| 145 | 328 |
| 146 | 322 |
| 147 | 315 |
| 148 | 309 |
| 149 | 302 |
| 150 | 296 |
| 151 | 290 |
| 152 | 284 |
| 153 | 279 |
| 154 | 273 |
| 155 | 268 |
| 156 | 262 |
| 157 | 257 |
| 158 | 252 |
| 159 | 247 |
| 160 | 242 |
| 161 | 238 |
| 162 | 233 |
| 163 | 229 |
| 164 | 224 |
| 165 | 220 |
| 166 | 216 |
| 167 | 212 |
| 168 | 208 |
| 169 | 204 |
| 170 | 200 |
| 171 | 196 |
| 172 | 193 |
| 173 | 189 |
| 174 | 186 |
| 175 | 182 |

| | |
|-----|-----|
| 176 | 179 |
| 177 | 176 |
| 178 | 172 |
| 179 | 169 |
| 180 | 166 |
| 181 | 163 |
| 182 | 160 |
| 183 | 158 |
| 184 | 155 |
| 185 | 152 |
| 186 | 150 |
| 187 | 147 |
| 188 | 144 |
| 189 | 142 |
| 190 | 139 |
| 191 | 137 |
| 192 | 135 |
| 193 | 132 |
| 194 | 130 |
| 195 | 128 |
| 196 | 126 |
| 197 | 124 |
| 198 | 122 |
| 199 | 120 |
| 200 | 118 |
| 201 | 116 |
| 202 | 114 |
| 203 | 112 |
| 204 | 110 |
| 205 | 108 |
| 206 | 107 |
| 207 | 105 |
| 208 | 103 |
| 209 | 102 |
| 210 | 100 |
| 211 | 98 |

| | |
|-----|----|
| 212 | 97 |
| 213 | 95 |
| 214 | 94 |
| 215 | 92 |
| 216 | 91 |
| 217 | 90 |
| 218 | 88 |
| 219 | 87 |
| 220 | 86 |
| 221 | 84 |
| 222 | 83 |
| 223 | 82 |
| 224 | 80 |
| 225 | 79 |
| 226 | 78 |
| 227 | 77 |
| 228 | 76 |
| 229 | 75 |
| 230 | 74 |
| 231 | 73 |
| 232 | 71 |
| 233 | 70 |
| 234 | 69 |
| 235 | 68 |
| 236 | 67 |
| 237 | 66 |
| 238 | 65 |
| 239 | 65 |
| 240 | 64 |
| 241 | 63 |
| 242 | 62 |
| 243 | 61 |
| 244 | 60 |
| 245 | 59 |
| 246 | 59 |
| 247 | 58 |
| 248 | 57 |
| 249 | 56 |
| 250 | 55 |

ORDERING INFORMATION

| Part Number | Description | Ω @25°C | MOQ |
|---------------|----------------------------------|----------------|--------|
| GA10KM3499J15 | Miniature Axial Glass Thermistor | 10,000 | 1,000* |

* For quantities less than Minimum Order Quantity – Contact Distribution

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