



10K3CG

Gold Leadless Chip

SPECIFICATIONS

- **Rapid Time response**
- **Surface Mount Capability**
- **Uniformly Sized for Pick & Place Assembly**
- **Square and Rectangular Configuration**
- **RoHS Compliant**

Gold terminated leadless NTC thermistor.

FEATURES

Rapid Time Response (<1second in liquids)
 Supplied with $\pm 5\%$ and $\pm 10\%$ tolerance
 Higher precision tolerance available
 Surface Mount Capability
 Supplied in “gel” or waffle” packs
 Square or Rectangular Configurations
 Temperature range -40 °C to +125°C

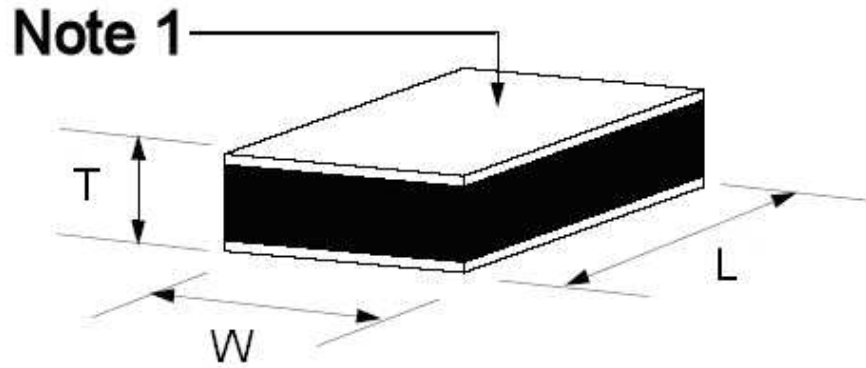
APPLICATIONS

WDM (Wavelength Division Multiplexing) for
 advanced frequency control in
 communications systems and wireless
 applications
 Thermopile sensors for thermal radiation recognition
 and infrared sensing
 Thermal protection of sensitive circuits
 Hybrid circuit temperature compensation
 Localized temperature sensing

PERFORMANCE SPECS

| Parameters | Units | Value |
|------------------------------------|---------|----------|
| Resistance @ +25°C | Ohms | 10,000 |
| 10K3CG3 Resistance tolerance +25°C | % | ± 5 |
| 10K3CG2 Resistance tolerance +25°C | % | ± 10 |
| Alpha Value @ 25°C | %/°C | - 4.39 |
| Beta Value 25/85 | K | 3976 |
| Time response in Liquids | Seconds | <1 |
| Dissipation Constant in still air | mW/°C | 1 |

MECHANICAL DETAILS



| | Dimensions | | | | | |
|---------------|-------------------|-------|-------|--------|-------|-------|
| | Millimeters | | | Inches | | |
| | L | W | T | L | W | T |
| | 1.016 | 1.016 | 0.305 | 0.040 | 0.040 | 0.012 |
| Note 1 | Gold Metalisation | | | | | |

RESISTANCE V TEMPERATURE TABLE

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

| | |
|-----|--------|
| -40 | 336098 |
| -39 | 314553 |
| -38 | 294524 |
| -37 | 275897 |
| -36 | 258563 |
| -35 | 242427 |
| -34 | 227398 |
| -33 | 213394 |
| -32 | 200339 |
| -31 | 188163 |
| -30 | 176803 |
| -29 | 166198 |
| -28 | 156294 |
| -27 | 147042 |
| -26 | 138393 |
| -25 | 130306 |
| -24 | 122741 |
| -23 | 115661 |
| -22 | 109032 |
| -21 | 102824 |
| -20 | 97006 |
| -19 | 91553 |
| -18 | 86439 |
| -17 | 81641 |
| -16 | 77138 |
| -15 | 72911 |
| -14 | 68940 |
| -13 | 65209 |
| -12 | 61703 |
| -11 | 58405 |
| -10 | 55304 |
| -9 | 52385 |
| -8 | 49638 |
| -7 | 47050 |
| -6 | 44613 |
| -5 | 42317 |
| -4 | 40151 |
| -3 | 38110 |
| -2 | 36184 |
| -1 | 34366 |
| 0 | 32651 |

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

| | |
|----|-------|
| 1 | 31031 |
| 2 | 29500 |
| 3 | 28054 |
| 4 | 26687 |
| 5 | 25395 |
| 6 | 24172 |
| 7 | 23016 |
| 8 | 21921 |
| 9 | 20885 |
| 10 | 19903 |
| 11 | 18973 |
| 12 | 18092 |
| 13 | 17257 |
| 14 | 16465 |
| 15 | 15714 |
| 16 | 15001 |
| 17 | 14324 |
| 18 | 13682 |
| 19 | 13073 |
| 20 | 12493 |
| 21 | 11943 |
| 22 | 11420 |
| 23 | 10923 |
| 24 | 10450 |
| 25 | 10000 |
| 26 | 9572 |
| 27 | 9165 |
| 28 | 8777 |
| 29 | 8408 |
| 30 | 8056 |
| 31 | 7721 |
| 32 | 7402 |
| 33 | 7097 |
| 34 | 6807 |
| 35 | 6530 |
| 36 | 6266 |
| 37 | 6014 |
| 38 | 5774 |
| 39 | 5544 |
| 40 | 5325 |
| 41 | 5116 |

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

| | |
|----|------|
| 42 | 4916 |
| 43 | 4724 |
| 44 | 4542 |
| 45 | 4367 |
| 46 | 4200 |
| 47 | 4040 |
| 48 | 3887 |
| 49 | 3741 |
| 50 | 3601 |
| 51 | 3467 |
| 52 | 3339 |
| 53 | 3216 |
| 54 | 3098 |
| 55 | 2985 |
| 56 | 2877 |
| 57 | 2773 |
| 58 | 2674 |
| 59 | 2579 |
| 60 | 2487 |
| 61 | 2399 |
| 62 | 2315 |
| 63 | 2234 |
| 64 | 2157 |
| 65 | 2082 |
| 66 | 2011 |
| 67 | 1942 |
| 68 | 1876 |
| 69 | 1813 |
| 70 | 1752 |
| 71 | 1693 |
| 72 | 1637 |
| 73 | 1582 |
| 74 | 1530 |
| 75 | 1480 |
| 76 | 1432 |
| 77 | 1385 |
| 78 | 1341 |
| 79 | 1298 |
| 80 | 1256 |
| 81 | 1216 |
| 82 | 1178 |
| 83 | 1141 |

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

| | |
|-----|------|
| 84 | 1105 |
| 85 | 1070 |
| 86 | 1037 |
| 87 | 1005 |
| 88 | 974 |
| 89 | 945 |
| 90 | 916 |
| 91 | 888 |
| 92 | 862 |
| 93 | 836 |
| 94 | 811 |
| 95 | 787 |
| 96 | 764 |
| 97 | 741 |
| 98 | 720 |
| 99 | 699 |
| 100 | 678 |
| 101 | 659 |
| 102 | 640 |
| 103 | 622 |
| 104 | 604 |
| 105 | 587 |
| 106 | 571 |
| 107 | 555 |
| 108 | 539 |
| 109 | 524 |
| 110 | 510 |
| 111 | 496 |
| 112 | 482 |
| 113 | 469 |
| 114 | 457 |
| 115 | 444 |
| 116 | 432 |
| 117 | 421 |
| 118 | 410 |
| 119 | 399 |
| 120 | 388 |
| 121 | 378 |
| 122 | 368 |
| 123 | 359 |
| 124 | 350 |
| 125 | 341 |

ORDERING INFORMATION

| Part Number | Description | Ω @25°C | MOQ |
|--------------------|------------------------------------|----------------|------------|
| 10K3CG3 | 10K Gold leadless chip 5% @ +25°C | 10,000 | 1,000* |
| 10K3CG2 | 10K Gold leadless chip 10% @ +25°C | 10,000 | 1,000* |

* For quantities less than Minimum Order Quantity – Contact Distribution

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