



GT THERMISTOR

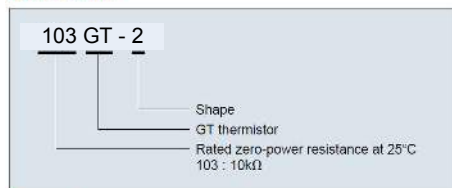
HIGH HEAT-RESISTANCE AND HIGH SENSITIVE THERMISTOR

The GT thermistor is a glass-encapsulated NTC which has a fast-response, high accuracy and a wide operating temperature range. It is also highly reliable, moisture-proof and cost-effective.

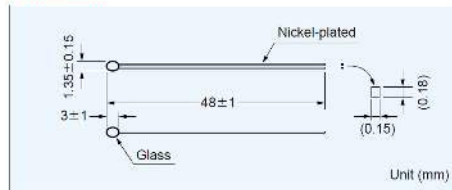
The GT thermistor has a high quality NTC element connect to the lead-wire using alloy technology and then is glass-coated for superior reliability.

RoHS compliant.

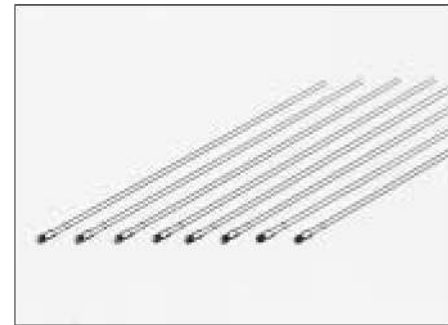
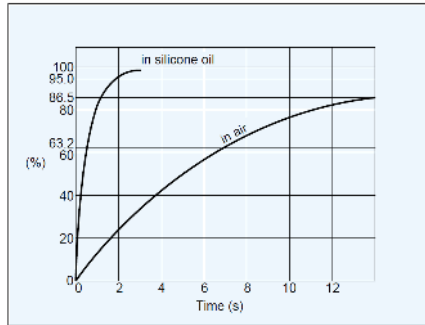
Part number



Dimensions



Time constant



Specifications

| Part No. | R25 ¹ | B Value ² | Dissipation factor (mW/°C) | Thermal time constant(s) ³ | Rated power at 25°C(mW) | Operating temp. range (°C) |
|----------|------------------|----------------------|----------------------------|---------------------------------------|-------------------------|----------------------------|
| 102GT-2 | 1.0kΩ±3% | 3305K±2% | 0.6 | 7(0.6) | 3 | -50~200 |
| 202GT-2 | 2.0kΩ±3% | 3838K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 502GT-2 | 5.0kΩ±3% | 3984K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 103GT-2 | 10.0kΩ±3% | 4128K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 203GT-2 | 20.0kΩ±3% | 4282K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 503GT-2 | 50.0kΩ±3% | 4288K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 104GT-2 | 100.0kΩ±3% | 4267K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 204GT-2 | 200.0kΩ±3% | 4338K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 504GT-2 | 500.0kΩ±3% | 4528K±2% | 0.6 | 7(0.6) | 3 | -50~300 |
| 105GT-2 | 1000.0kΩ±3% | 4608K±2% | 0.6 | 7(0.6) | 3 | -50~300 |

¹ R25 : Rated zero-power resistance value at 25 °C.
² B value : determined by rated zero-power resistance at 25 °C and 85 °C.
³ Time when thermistor temperature reaches 63.2% of the temperature difference. The value is measured in the air. (silicone oil)

Resistance-Temperature

| Temperature (°C) | Type | | | | | | | | | | |
|------------------|---------|---------|---------|---------|---------|--------|---------|--------|--------|--------|--|
| | 102GT | 202GT | 502GT | 103GT | 203GT | 503GT | 104GT | 204GT | 504GT | 105GT | |
| -50 | 32.57 | 111.3 | 342.1 | 825.1 | 1901 | 4613 | 8743 | | | | |
| -40 | 18.48 | 61.34 | 175.4 | 405.3 | 909.0 | 2199 | 4218 | 8810 | | | |
| -30 | 10.84 | 33.69 | 92.54 | 206.6 | 453.2 | 1100 | 2132 | 4436 | 12091 | | |
| -20 | 6.594 | 18.79 | 50.44 | 109.9 | 236.6 | 576.2 | 1127 | 2329 | 6268 | | |
| -10 | 4.144 | 10.82 | 28.49 | 60.72 | 128.3 | 315.1 | 620.0 | 1272 | 3372 | 6920 | |
| 0 | 2.675 | 6.424 | 16.66 | 34.82 | 72.32 | 178.8 | 353.7 | 720.3 | 1880 | 3833 | |
| 10 | 1.773 | 3.939 | 10.06 | 20.66 | 42.24 | 104.9 | 208.6 | 421.8 | 1083 | 2190 | |
| 20 | 1.203 | 2.489 | 6.264 | 12.64 | 25.47 | 63.52 | 126.8 | 254.6 | 642.3 | 1289 | |
| 30 | 0.8354 | 1.618 | 4.019 | 7.968 | 15.82 | 39.62 | 79.36 | 158.2 | 391.9 | 780.9 | |
| 40 | 0.5918 | 1.080 | 2.651 | 5.164 | 10.10 | 25.37 | 50.96 | 100.8 | 245.4 | 485.2 | |
| 50 | 0.4273 | 0.7390 | 1.792 | 3.436 | 6.620 | 16.64 | 33.49 | 65.85 | 157.5 | 309.0 | |
| 60 | 0.3141 | 0.5170 | 1.239 | 2.341 | 4.444 | 11.16 | 22.51 | 43.99 | 103.3 | 201.2 | |
| 70 | 0.2347 | 0.3695 | 0.8753 | 1.631 | 3.050 | 7.645 | 15.44 | 29.98 | 69.20 | 133.6 | |
| 80 | 0.1782 | 0.2693 | 0.6304 | 1.159 | 2.138 | 5.338 | 10.80 | 20.82 | 47.23 | 90.53 | |
| 90 | 0.1373 | 0.1998 | 0.4624 | 0.8391 | 1.527 | 3.795 | 7.686 | 14.71 | 32.84 | 62.49 | |
| 100 | 0.1072 | 0.1507 | 0.3450 | 0.6181 | 1.111 | 2.742 | 5.556 | 10.57 | 23.22 | 43.90 | |
| 110 | 0.08483 | 0.1154 | 0.2614 | 0.4626 | 0.8209 | 2.014 | 4.082 | 7.720 | 16.68 | 31.34 | |
| 120 | 0.06787 | 0.08973 | 0.2010 | 0.3514 | 0.6160 | 1.501 | 3.043 | 5.720 | 12.15 | 22.69 | |
| 130 | 0.05488 | 0.07068 | 0.1566 | 0.2706 | 0.4686 | 1.133 | 2.298 | 4.296 | 8.976 | 16.65 | |
| 140 | 0.04483 | 0.05638 | 0.1236 | 0.2111 | 0.3613 | 0.8662 | 1.758 | 3.269 | 6.719 | 12.39 | |
| 150 | 0.03697 | 0.04550 | 0.09865 | 0.1666 | 0.2820 | 0.6704 | 1.360 | 2.516 | 5.091 | 9.330 | |
| 160 | 0.03077 | 0.03715 | 0.07967 | 0.1330 | 0.2226 | 0.5247 | 1.064 | 1.958 | 3.903 | 7.107 | |
| 170 | 0.02584 | 0.03065 | 0.06501 | 0.1073 | 0.1777 | 0.4149 | 0.8414 | 1.539 | 3.024 | 5.472 | |
| 180 | 0.02189 | 0.02556 | 0.05358 | 0.08741 | 0.1432 | 0.3314 | 0.6714 | 1.222 | 2.367 | 4.255 | |
| 190 | 0.01869 | 0.02151 | 0.04457 | 0.07186 | 0.1166 | 0.2673 | 0.5408 | 0.9796 | 1.871 | 3.339 | |
| 200 | 0.01610 | 0.01826 | 0.03741 | 0.05960 | 0.09573 | 0.2174 | 0.4393 | 0.7919 | 1.492 | 2.644 | |
| 210 | | | 0.03167 | 0.04986 | 0.07929 | 0.1784 | 0.3597 | 0.6455 | 1.200 | 2.113 | |
| 220 | | | 0.02703 | 0.04204 | 0.06620 | 0.1475 | 0.2969 | 0.5303 | 0.9726 | 1.702 | |
| 230 | | | 0.02324 | 0.03573 | 0.05570 | 0.1230 | 0.2468 | 0.4389 | 0.7946 | 1.382 | |
| 240 | | | 0.02014 | 0.03059 | 0.04722 | 0.1032 | 0.2065 | 0.3658 | 0.6539 | 1.131 | |
| 250 | | | 0.01759 | 0.02640 | 0.04030 | | 0.1740 | 0.3068 | 0.5418 | 0.9323 | |
| 260 | | | | | | | 0.1475 | 0.2591 | 0.4519 | 0.7735 | |
| 270 | | | | | | | 0.1258 | 0.2201 | 0.3793 | 0.6459 | |
| 280 | | | | | | | 0.1079 | 0.1881 | 0.3203 | 0.5424 | |
| 290 | | | | | | | 0.09305 | 0.1616 | 0.2720 | 0.4583 | |
| 300 | | | | | | | 0.08065 | 0.1396 | 0.2323 | 0.3894 | |