

GT Series High Temperature Glass NTCs For Accurate Temperature Control To 300°C

GT-2 Series NTC Thermistors from 1k ohm to 1M ohm



NTC thermistors, thermistor probes and temperature sensors, thermal controls and other circuit protection devices are all available from the UK's market leaders.

The GT-2 Thermistor

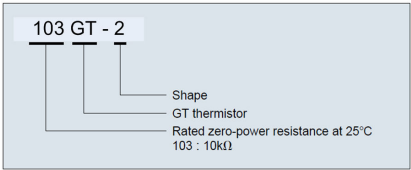
The GT-2 is a glass bead NTC thermistor which has a fast response, high accuracy and a wide operating temperature range. It is also highly reliable, moisture-proof and cost effective.

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

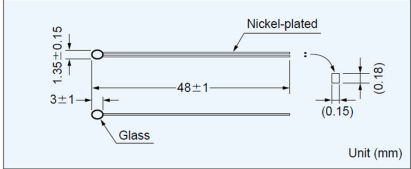
End of Life Notice

Once our GT-2 stock is exhausted, [NT-4 glass thermistors](#) are readily available from stock where direct replacements exist.

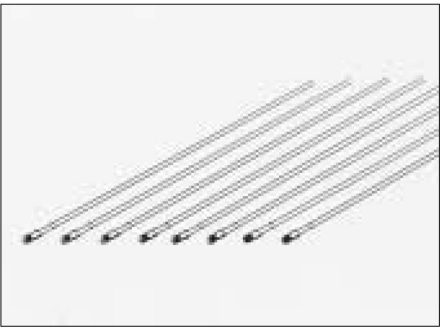
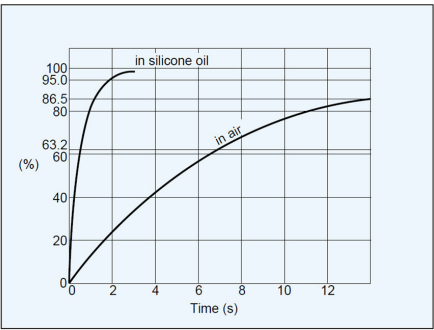
Part number



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 | Operating temp (°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%    | 3964K±2%   | 0.6                        | 7(0.6)                      | 3                   | -50~300             |
| 103GT-2  | 10.0kΩ±3%   | 4126K±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%  | 4526K±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 taken for the GT thermistor to reach 63.2% of any temperature difference it is exposed to. The values are those measured in air or in (silicone oil)

Resistance-Temperature Tables (Unit kΩ)

| Temperature (C) | 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 | 1.1133 | 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 |



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