

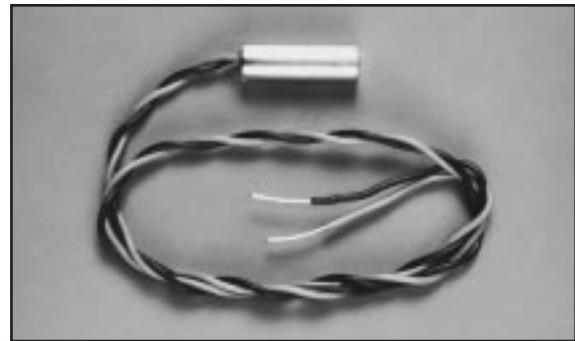


NTC THERMISTORS: TYPE GT

GENERAL PURPOSE SENSOR

DESCRIPTION:

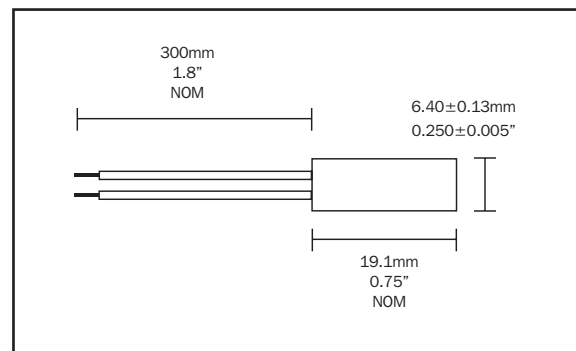
Type GT thermistors consist of a G type thermistor mounted in a semi-flexible epoxy resin and housed within a nickel-plated brass case. Connection is made with 7/0.2mm silver-plated copper conductors insulated with PTFE. Primary applications are temperature measurement and control.



DATA:

Resistance tolerance at 25°C ±20%
 B value tolerance ±5%
 Maximum temperature 125°C
 P_{max} at 25°C 270 mW
 Dissipation constant 2.7mW/K
 Thermal time constant 2.8s self heating
 τ 2.8 minutes external heating
 Isolation voltage, case to leads 400V

DIMENSIONS:



Code	R ₂₀ Ω	R ₂₅ Ω	R _{min} Ω	B (²⁵⁻⁸⁵ / _K)
GT22	200	172	13	2750
GT52	500	425	40	2900
GT13	1000	845	70	3000
GT23	2000	1650	113	3125
GT53	5000	4150	250	3400
GT14	10000	8200	430	3600
GT24	20000	16200	720	3800
GT54	50000	40000	1500	4075
GT15	100000	79000	2600	4275
GT25	200000	155000	4400	4400
		R ₁₀₀		B (¹⁰⁰⁻²⁰⁰ / _{°C})
GT55	500000	15000	6500	4700
GT16	1000000	30000	11000	4850
GT26	2000000	60000	20000	5000

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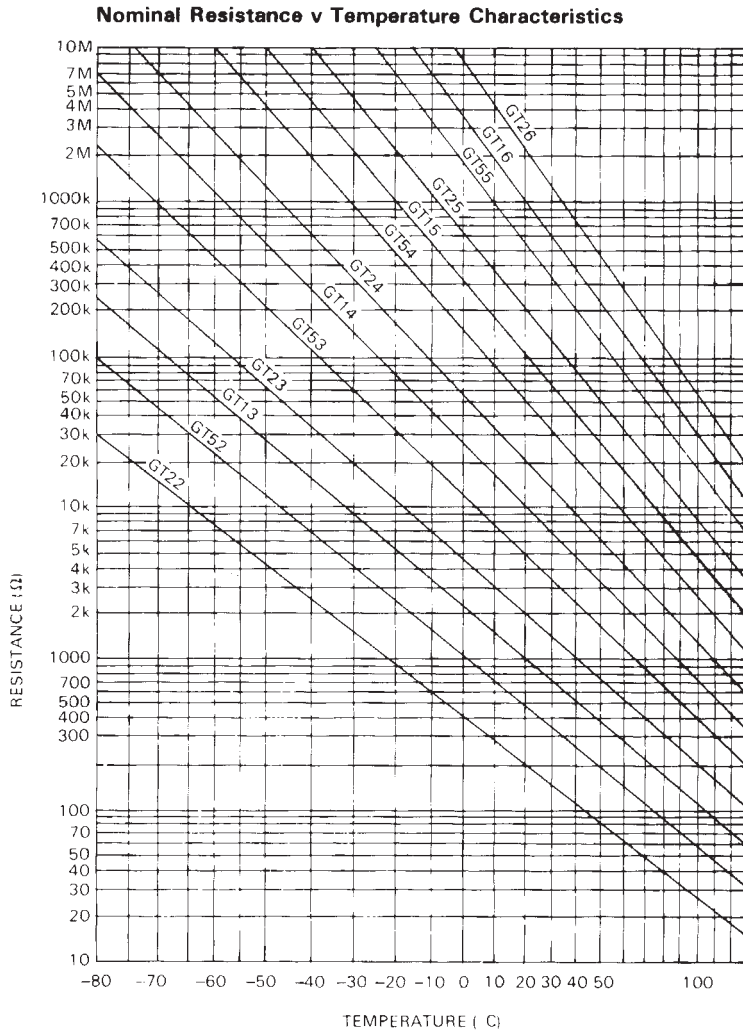
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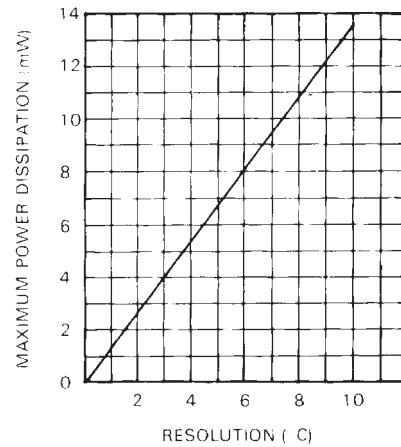


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For temperature measurement the electrical power dissipation within the thermistor should be limited so that the element temperature is raised by less than half the measurement resolution required. This prevents the thermistor from becoming over-sensitive to the thermal conductivity of its immediate surroundings. If the thermistor is permanently situated in a stable environment more power may be dissipated.



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