

QTM12 AXIAL LEADED THERMISTOR

QTM12 thermistors are a plastic molded, axial leaded part with a body length of 0.421 inches and a diameter of 0.155 inches. They are the commercial version of QTI's RTH22 military-grade part, which is built to military specification MIL-PRF-23648.



ENGINEERING INFORMATION

- PTC thermistor
- Standard resistance: 10 ohms to 10k ohms
- Operating temperature range: -55°C to 125°C
- Storage temperature: -65°C to 150°C
- Dissipation Constant: 0.5 mW/°C min. in still air
- Thermal Time Constant: 60 seconds max in still air
- Power rating: 0.500 Watts at 25°C derate to 0 Watts at 125°C (Table 2)

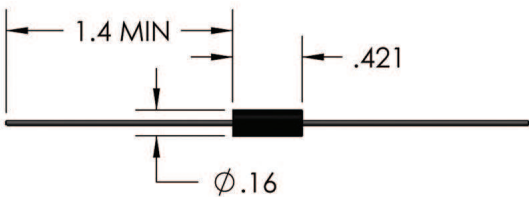


Table 1: Resistance Multipliers

Temperature	10 to 68 ohms	82 to 150 ohms	180 to 560 ohms	680 to 1500 ohms	1.8K to 10K ohms
-55°C	0.615	0.582	0.560	0.550	0.515
-15°C	0.790	0.770	0.755	0.740	0.730
0°C	0.863	0.847	0.838	0.835	0.825
25°C	1.000	1.000	1.000	1.000	1.000
50°C	1.160	1.170	1.180	1.200	1.230
75°C	1.350	1.370	1.400	1.420	1.450
100°C	1.545	1.584	1.623	1.656	1.670
125°C	1.750	1.800	1.860	1.920	1.960

Table 2: Derating curve for high ambient temps

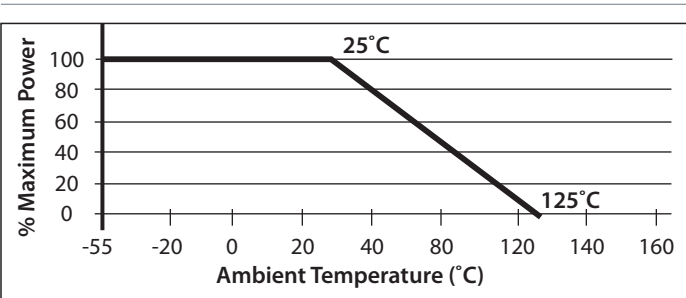


Table 3: Device tolerance at temps other than 25°C

Sequence	Temperature	J +/- %	K +/- %
1	-55°C	20	25
2	-15°C	13	18
3	0°C	7	12
4	25°C	5	10
5	50°C	7	12
6	75°C	9	14
7	100°C	12	17
8	125°C	15	20

Don't see exactly what you need? Contact QTI to create a custom part for your application.

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