

# QTG12 GLASS AXIAL PTC THERMISTOR

QTI's QTG12 diode series of axial leaded precision PTC thermistors conform to the EIA D07 diode package. They are the commercial version of the RTH42 (MIL-PRF 23648) and conform to the standard D035 package size. A RoHS compliant version of the QTG12 is available.



## ENGINEERING INFORMATION

- Standard resistance: 10 ohms to 10k ohms
- Operating temperature range: -55°C to 125°C
- Storage temperature: -65°C to 150°C
- Dissipation Constant: 0.25 mW/°C min. in still air
- Thermal Time Constant: 60 seconds max in still air
- Power rating: 0.125 Watts at 25°C derate to 0 Watts at 125°C (Table 2)

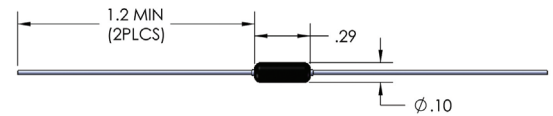


Table 1: Resistance Multipliers

Temperature	10 to 68 Ω	82 to 150 Ω	180 to 470 Ω	560 to 1200 Ω	1500 to 5600 Ω	6800 to 10k Ω
-55°C	0.615	0.582	0.560	0.550	0.515	0.510
-15°C	0.790	0.770	0.755	0.740	0.730	0.730
0°C	0.863	0.847	0.838	0.835	0.825	0.825
25°C	1.000	1.000	1.000	1.000	1.000	1.000
50°C	1.160	1.170	1.180	1.200	1.230	1.190
75°C	1.350	1.370	1.400	1.420	1.450	1.400
100°C	1.545	1.584	1.623	1.656	1.670	1.610
125°C	1.750	1.800	1.860	1.920	1.960	1.830

Table 2: Derating curve for high ambient temps

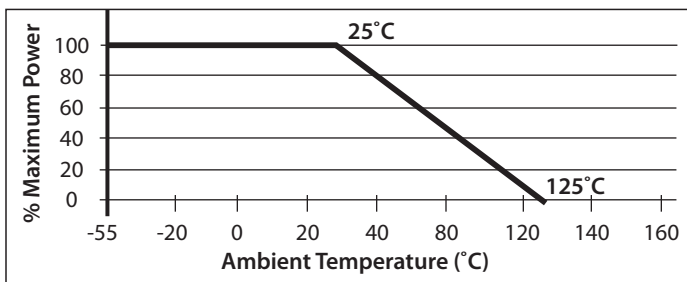


Table 3: Device tolerance at temps other than 25°C

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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