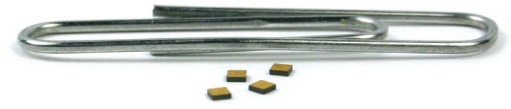


# QTC11 NTC THERMISTOR DIE



The QTC11 NTC precision chip thermistors are designed for die attach and wire-bonding requirements found in today's hybrid microelectronics circuits. The QTC11 series is offered in a gold or silver termination finish for high-reliability conductive epoxy/wire bonded attachment. It is ideal for applications requiring narrow band, temperature point matching control and is also available in a military grade Defense Logistics Agency version.



Applications may include localized temperature sensing, temperature compensation, protection, and frequency control for sensitive communications systems and infrared sensing equipment.

## ENGINEERING INFORMATION

- Typical Dissipation Constant: 0.625 mW/°C min. in still air\*
- Typical Time Constant: 10 seconds max in still air\*
- Operating temperature range: -55°C to 125°C
- Storage temperature range: -65°C to 150°C
- Resistance values: 100 ohms to 20 M ohms
- Available with gold or silver terminations
- RoHS compliant

\* Depends on mounting

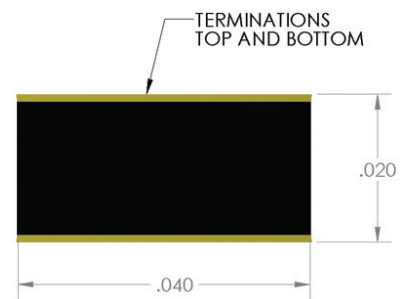
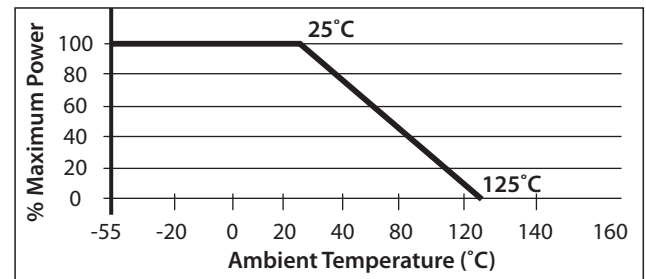


Table 1: Factors for determining resistance

Part Number	Resistance at 25°C (Ω)	Alpha at 25°C
QTC11X-101J	100	-3.1%
-201J	200	-3.1%
-301J	300	-3.1%
-501J	500	-3.1%
QTC11Y-102J	1K	-3.9%
-202J	2K	-3.9%
-302J	3K	-3.9%
QTC11Z-502J	5K	-4.4%
-103J	10K	-4.4%
-203J	20K	-4.4%
-303J	30K	-4.4%
QTC11S-103J	10K	-4.0%
QTC11W-503J	50K	-4.7%
QTC11V-104J	100K	-4.9%
-204J	200K	-4.9%
QTC11P-504J	500K	-5.3%
-105J	1M	-5.3%
-205J	2M	-5.3%
QTC11R-106J	10M	-6.2%
-206J	20M	-6.2%

Table 2: Derating curve for high ambient temps



### Ordering information:

QTC11 Z G-10 3 J  
 a b c d e f

- Part number
- R/T Curve
- G for gold, S for silver
- 1st two resistance digits
- Number of zeros
- Tolerance code

### Dimensions:

L: 0.040" +/- 0.010"  
 W: 0.040" +/- 0.010"  
 T: 0.020" max

### Tolerance Code:

K: 10%  
 J: 5%  
 G: 2%  
 F: 1%

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

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