

NTC Surface Mount Chip Thermistors

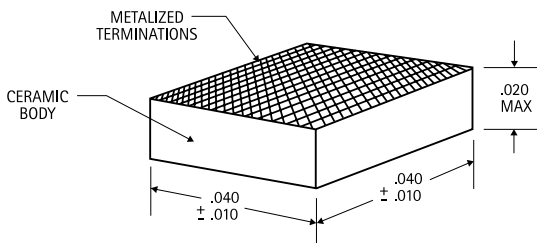
QTC11 (NTC) Series

The QTC11 NTC 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.

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

The QTC11 Series is available for applications requiring narrow band, temperature point matching control and is also available in a military grade DSCC (Defense Supply Center Columbus) version. Contact Quality Thermistor's Applications Engineering Department for details.

Quality Thermistor, Inc. is
AS9100 certified



Dimensions QTC11 NTC STYLE

L = .040" +/- .010"
W = .040" +/- .010"
T = .020" Max

Tolerance Code:

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



Engineering Information

Thermal Time Constant*: 10 seconds maximum in still air

Dissipation Constant*: .625mW/C minimum

Power Rating: .0625W, derate to 0 at 125 (See Table 2)

Resistance At 25°C: 100 Ohm to 20 Mohm (See Table 1).

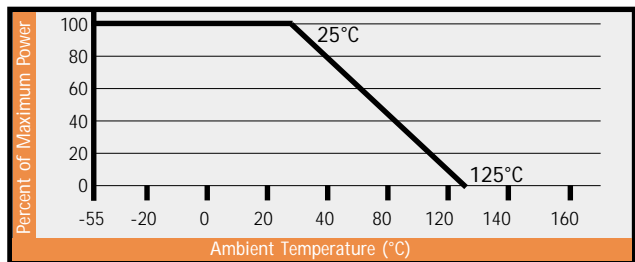
*Thermal Time and Dissipation Constant may vary depending on mounting.

TABLE 1

PART NUMBER	RESISTANCE @25C (Ohms)	ALPHA @ 25C
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%

Contact Quality Thermistor for resistance values not listed above.

TABLE 2 Derating Curve for High Ambient Temperatures



Ordering Information

QTC11 Z G-10 3 J

