

# QT0805 NTC SERIES THERMISTORS

QTI's QT0805 NTC surface mount thermistors are the ideal solution for temperature sensing functions found in temperature compensation networks. The patented design features Leach Guard™ terminations which are able to withstand many automated assembly and soldering processes. Standard EIA sizing allows for tape and reel packaging designed for automated placement equipment. Contact QTI for information regarding our SMD engineering kit.



## ENGINEERING INFORMATION

- Standard EIA 0805 package size
- Resistance values from: 50 ohms to 10M ohms
- Available with gold, pure tin or tin/lead terminations
- Typical Dissipation Constant = 2 mW/°C in still air\*
- Typical Time Constant in still air = 8 seconds max\*
- Tolerances: 1%, 2%, 5%, 10%
- Operating range: -65°C to 150°C
- Power rating: 0.125 Watts max
- Available waffle packed or tape and reel
- RoHS compliant options available

\* Depends on mounting

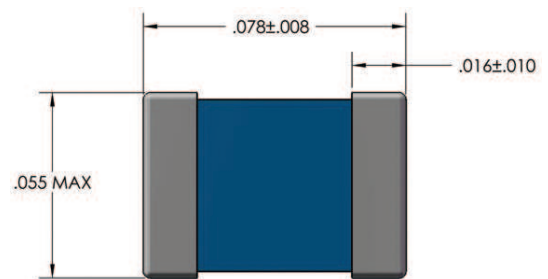


Table 1: Power derating curve

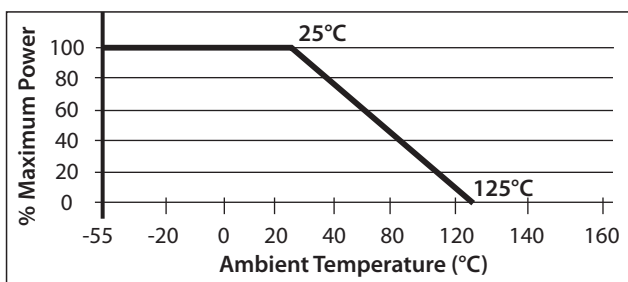


Table 2: Resistance and curve data

Resistance at 25°C (ohms)	R/T Curve	Beta (B) 75/25
1k	X	3000
2k	T	3181
5k	Y	3513
10k	Y	3513
20k	Y	3513
50k	Z	3966
100k	Z	3966
6.8M	P	4829
10M	P	4829

Table 3: Optional termination finishes\*

Material	Code
Pure Tin	T
Gold	G

\* Standard finish: Solder tin/lead (not RoHS compliant)

### Dimensions:

L = 0.078" +/- 0.008", W = 0.049" +/- 0.008"

T = 0.055" Max, BW = 0.016" +/- 0.010"

QTI can customize this part for you. Contact us for available options.

2108 Century Way Boise, Idaho 83709 USA  
T: (208) 377-3373, 800-554-4784  
F: (208) 376-4754  
qtisales@thermistor.com  
www.thermistor.com

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