

Surface Mount Termination

100 Watts, 50Ω

Description

The C100N50Z4B is high performance Aluminum Nitride (AlN) surface mount termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is designed particularly for LTE and 5G wireless communication frequency bands. The high power handling makes the part ideal for terminating high power 90 degree couplers and for use in microstrip circuits. The termination is also RoHS compliant!

Features:

- RoHS Compliant
- 100 Watts
- DC –5 GHz
- AlN Ceramic
- LTE & 5G
- Low VSWR
- 100% Tested
- Small Size

General Specifications

Resistive Element	Thick film
Substrate	AlN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +150°C (see de rating chart)

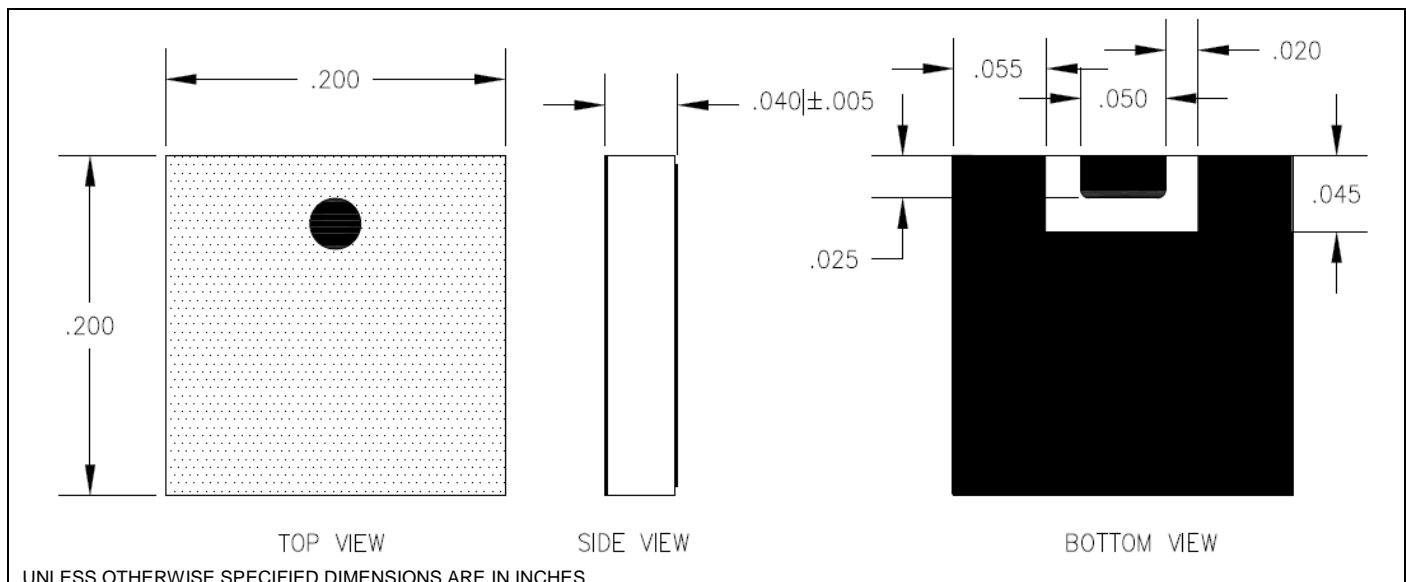
Tolerance is ± 0.010 ", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

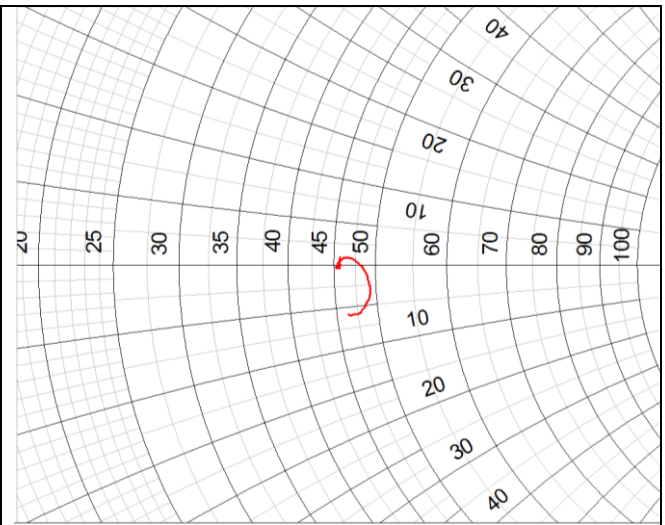
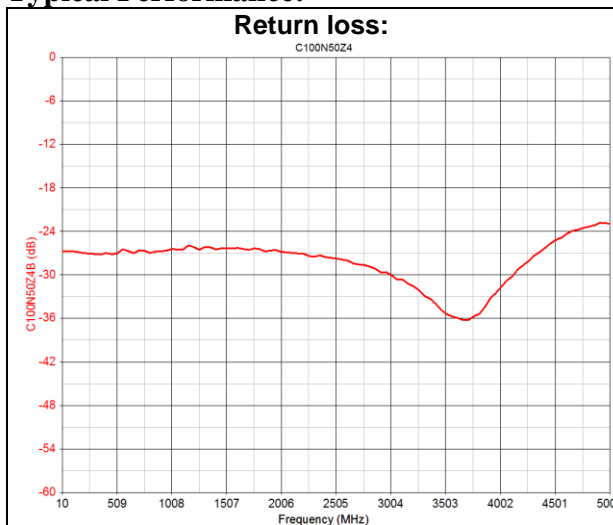
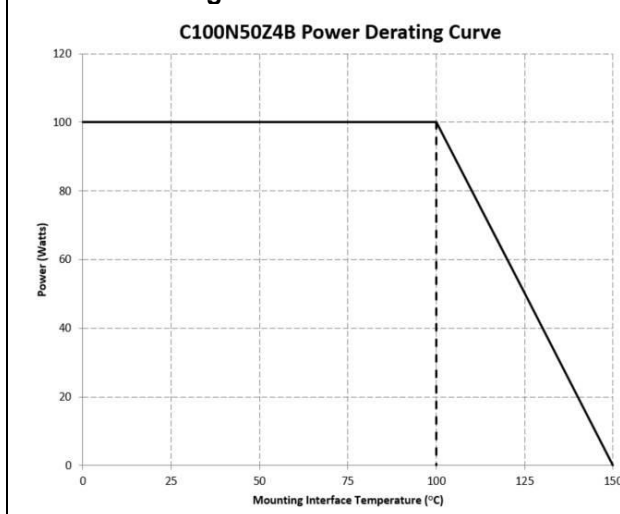
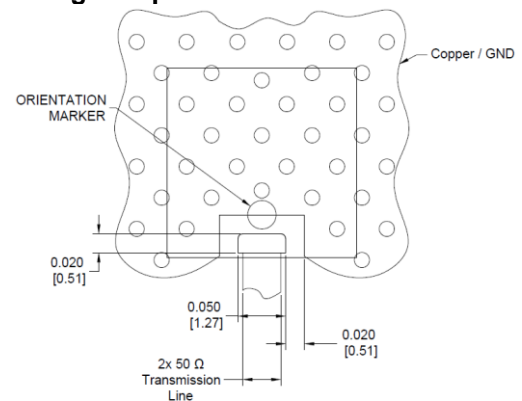
Electrical Specifications

Power:	100 Watts
Frequency Range:	DC – 5.0 GHz
Return Loss	>20 dB DC - 5.0 GHz

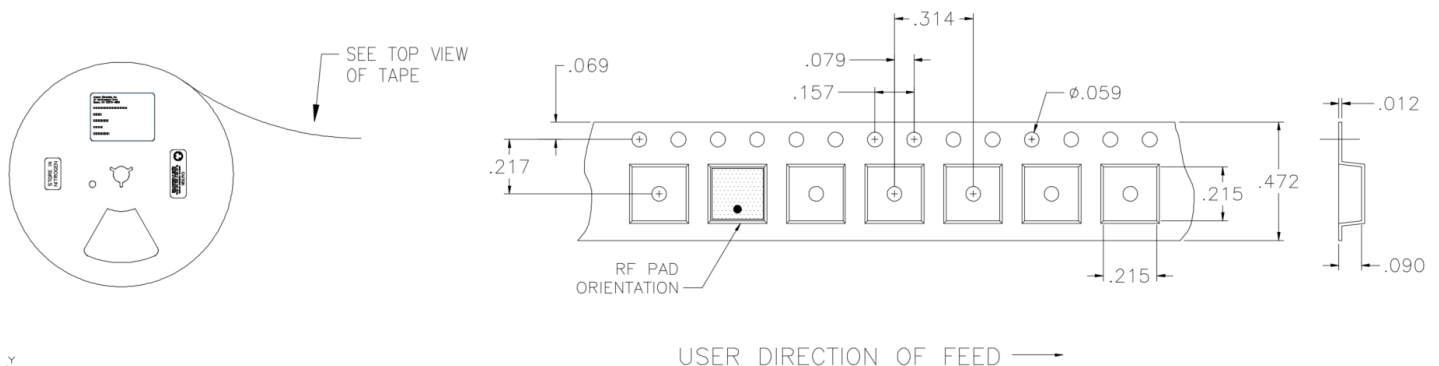
Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

Outline Drawing



Typical Performance:**Power de-rating:****Mounting Footprint**

Recommended Mounting Footprint
for 20 mil thick, Dk 3.48 PCB

Tape & Reel:

USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

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