

# Surface Mount Termination 100 Watts, $50\Omega$



### **Features:**

- RoHS Compliant
- 100 Watts
- DC 4.0 GHz
- AIN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- Small Size

## **Description**

The C100N50Z4A is high performance Aluminum Nitride (AIN) surface mount termination intended as a cost competitive alternative to Beryllium Oxide (BeO). The termination is well suited to all cellular frequency bands such as; AMPS, GSM, DCS, PCS, PHS and UMTS. 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!

### **General Specifications**

Resistive Element Thick film

Substrate AIN Ceramic

**Terminal Finish** Matte Tin over Nickel Barrier **Operating Temperature** -55 to +200°C (see de rating of

**Operating Temperature** -55 to +200°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.

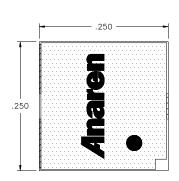
## **Electrical Specifications**

Resistance Value:50 Ohms,  $\pm$  2%Power:100 WattsFrequency Range:DC - 4.0 GHzPotance Lange:>24 dB DC - 2.7 GHz

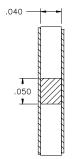
**Return Loss** >24 dB DC - 2.7 GHz >20 dB DC - 4.0 GHz

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

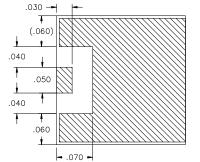
# **Outline Drawing**



TOP VIEW



SIDE VIEW



BOTTOM VIEW

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

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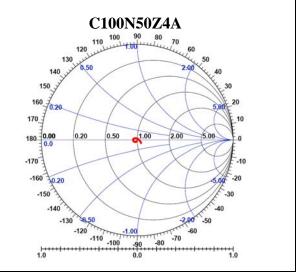
Available on Tape and Reel For Pick and Place Manufacturing.

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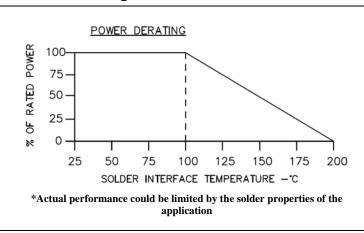


# **Typical Performance:**

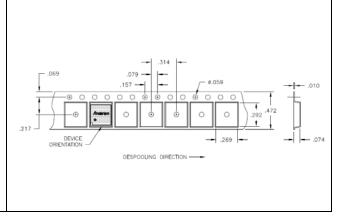




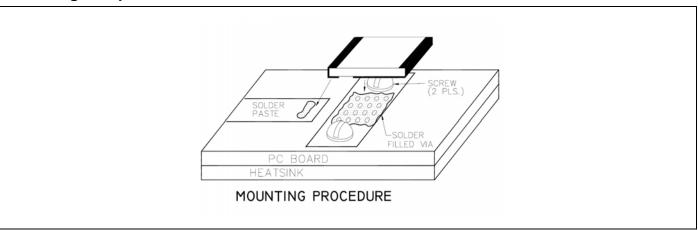
## **Power De-rating:**



Tape & Reel:



## **Mounting Footprint and Procedure:**



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