

# **Surface Mount Termination** 20 Watts, $50\Omega$

#### **Description**

The C20N50Z4B is high performance Aluminum Nitride (AIN) surface mount termination. The termination is designed particularly for LTE and 5G frequency bands and is well suited for all other 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 -50 to +150°C (see de rating chart)

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

#### **Electrical Specifications**

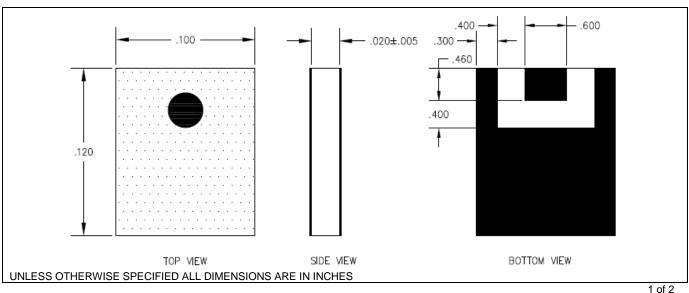
Power: 20 Watts Frequency Range: DC - 6.0 GHz >20 dB to GHz **Return Loss** 

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

### **Features:**

- **RoHS Compliant**
- 20 Watts
- DC 6.0 GHz
- **AIN Ceramic**
- **Non-Nichrome Resistive Element**
- Low VSWR
- 100% Tested
- **Small Size**

## **Outline Drawing**







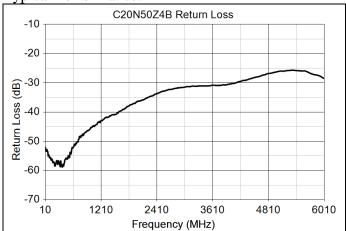


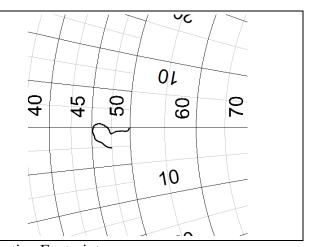
Available on Tape and Reel For Pick and Place Manufacturing.

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

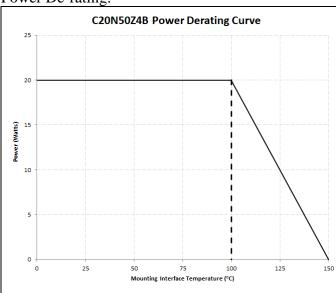


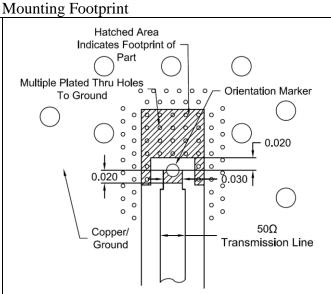
Typical Performance:



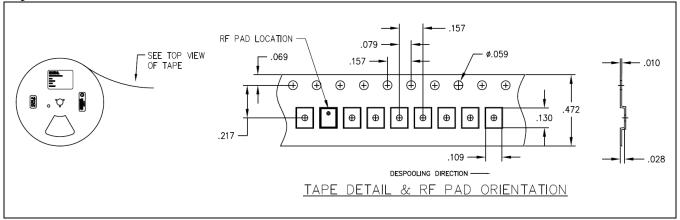


Power De-rating:





Tape & Reel Information:

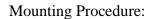


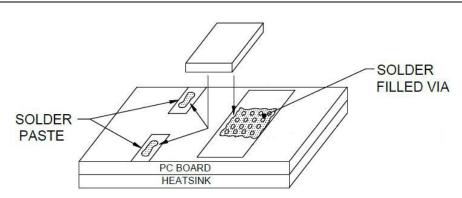
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- 1. DRILL THERMAL VIAS THROUGH PCB AND FILL WITH SOLDER, SUCH AS Sn96.
- 2. SOLDER PART IN PLACE USING Sn96 TYPE SOLDER WITH A CONTROLLED TEMPERATURE IRON (360°C)
- 3. TO ENSURE GOOD THERMAL CONNECTIVITY TO HEAT SINK, DRILL AND TAP HEATSINK AND MOUNT PCB BOARD TO HEATSINK USING SCREWS WITHIN 1.5" OF PART



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