

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



## Features:

- RoHS Compliant
- 50 Watts
- DC 2.7 GHz
- Al2O3 Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested
- Small Size

## **Description**

The C50A50Z4 is high performance Alumina (Al203) surface mount termination intended as a low cost alternative to Aluminum Oxide (AlN). 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** Al<sub>2</sub>O<sub>3</sub> Ceramic

Terminal Finish Matte Tin over Nickel Barrier

Operating Temperature -55 to +125°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**

Resistance Value: 50 Ohms, ± 2%

 Power:
 50 Watts

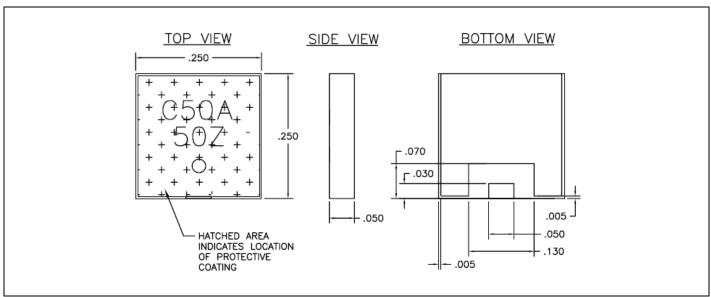
 Frequency Range:
 DC - 2.7 GHz

 Return Loss
 > 26 dB to 2.2 GHz

 > 24 dB to 2.7 GHz

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

## **Outline Drawing**



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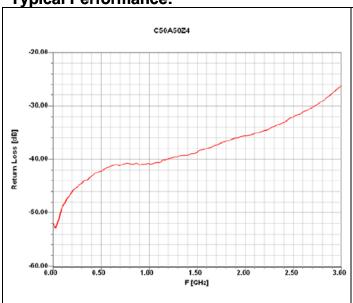


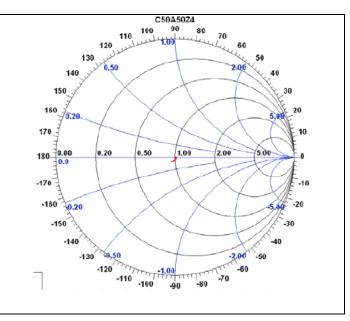
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Typical Performance:



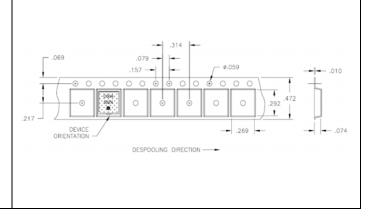


## **Power De-rating:**

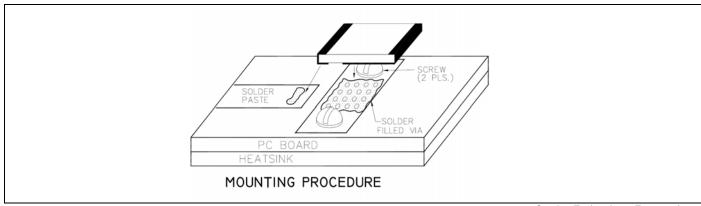
POWER DERATING

\*\*Actual performance could be limited by the solder properties of the application

Tape & Reel:



### **Mounting Footprint and Procedure:**



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