

# 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%

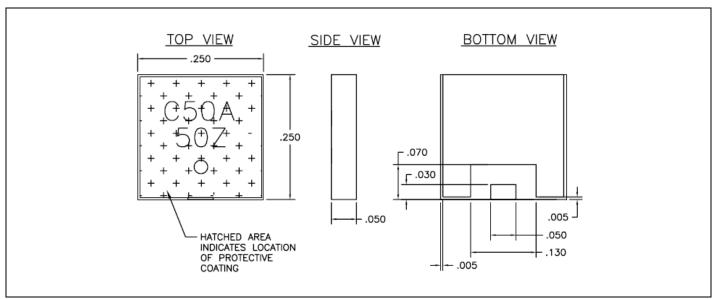
Power: 50 Watts

Frequency Range: DC - 2.7 GHz

> 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**



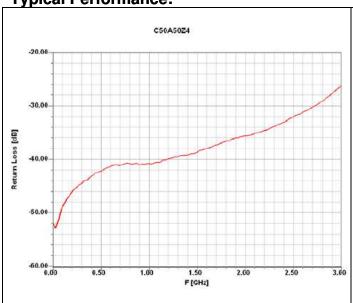
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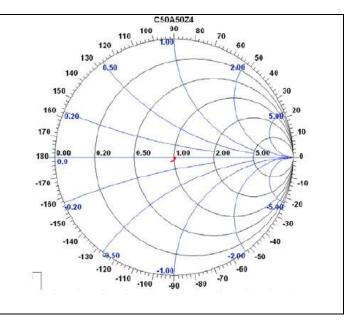




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USA/Canada: (315) 432-8909 Toll Free: (800) 544-2414 Europe: +44 2392-232392 **Typical Performance:** 

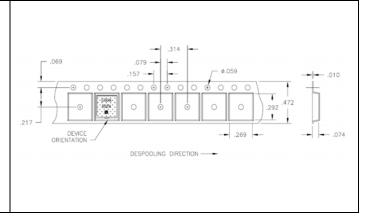




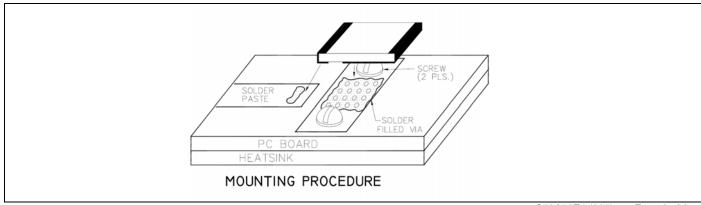
# **Power De-rating:**

POWER DERATING

# Tape & Reel:



# **Mounting Footprint and Procedure:**



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