

# Surface Mount Termination 16 Watts, 50Ω



#### Features:

- RoHS Compliant
- 16 Watts
- DC 4.0 GHz
- Al<sub>2</sub>O<sub>3</sub> Ceramic
- Non-Nichrome Resistive
  Element
- Low Return Loss
- 100% Tested
- Small Size

**Outline Drawing** 

# **Description**

The C16A50Z4 is high performance Alumina  $(Al_2O_3)$  surface mount termination intended as a cost competitive alternative to Aluminum Nitride (AIN). 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**

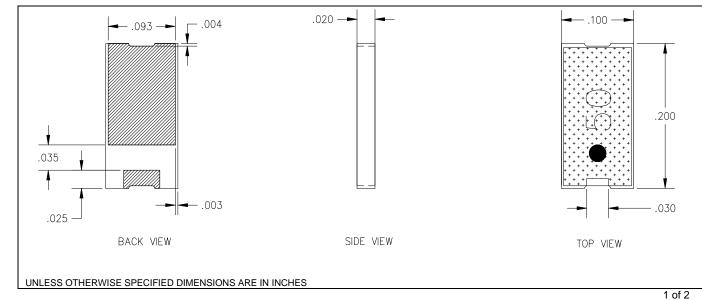
Resistive Element	Thick film
Substrate	Al <sub>2</sub> O <sub>3</sub> Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-50 to +125°C (see de rating chart)

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:	16 Watts
Frequency Range:	DC – 4.0 GHz
Return Loss	>26 dB DC - 2.7 GHz
	>24 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.** 



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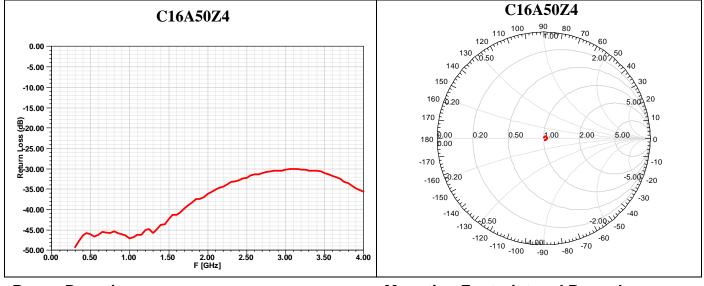
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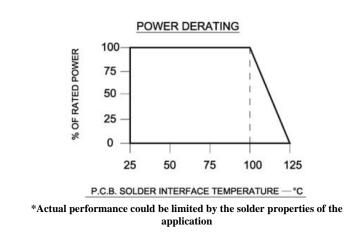
# Model C16A50Z4



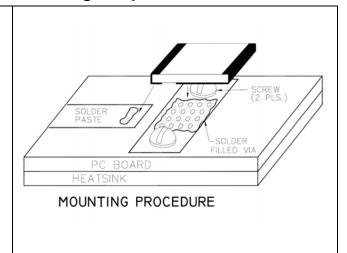
# **Typical Performance:**



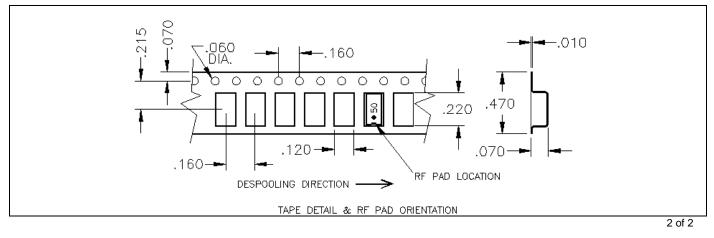
#### **Power De-rating:**



**Mounting Footprint and Procedure:** 



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