

### Surface Mount Termination 10 Watts, 50Ω



#### Description

The C10A50Z4 is high performance RoHS compliant Alumina ( $Al_2O_3$ ) surface mount termination intended as a lower cost alternative to Aluminum Nitride (AlN) and 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 90 degree hybrid directional couplers, and for use in isolators.

#### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	$Al_2O_3$ Ceramic
<b>Terminal Finish</b>	Matte Tin over Nickel Barrier
<b>Operating Temperature</b>	-55 to +125°C (see de-rating chart)

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

#### Electrical Specifications

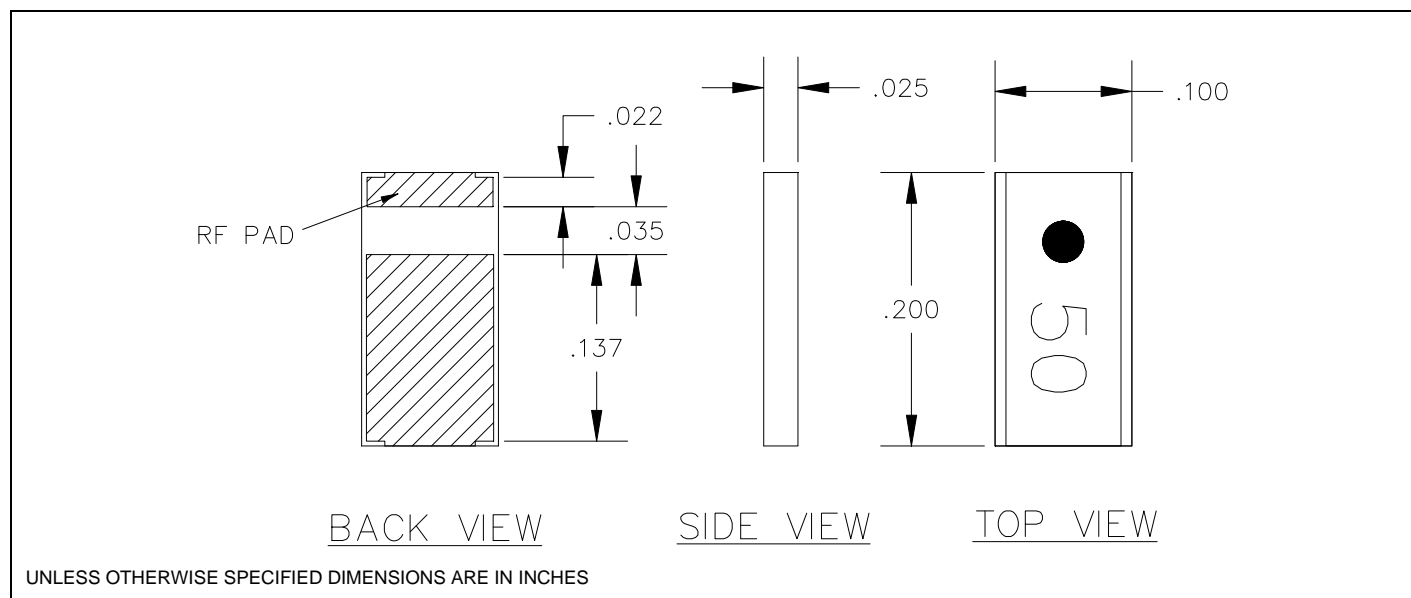
<b>Resistance Value:</b>	50 Ohms, $\pm 2\%$
<b>Power:</b>	10 Watts
<b>Frequency Range:</b>	DC – 3.0 GHz
<b>V.S.W.R.:</b>	< 1.25:1

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change without notice.**

#### Features:

- RoHS Compliant
- 10 Watts
- DC – 3.0 GHz
- $Al_2O_3$  Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

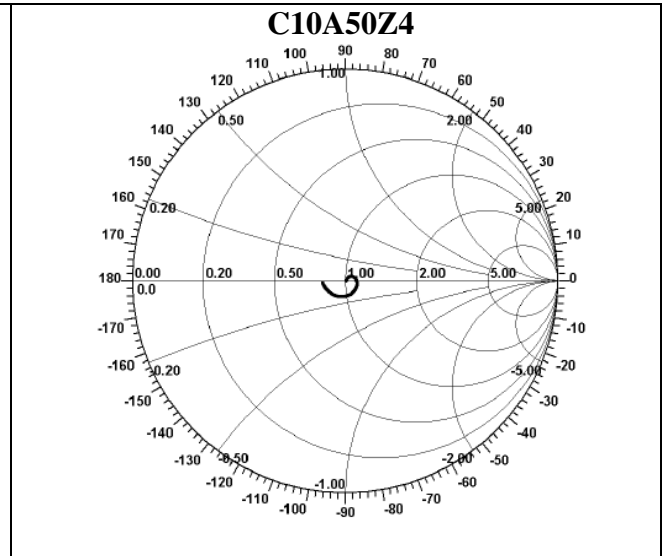
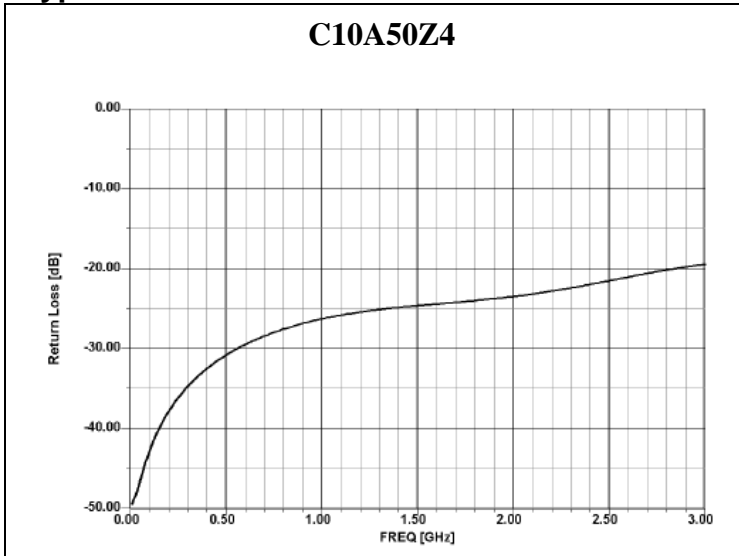
#### Outline Drawing



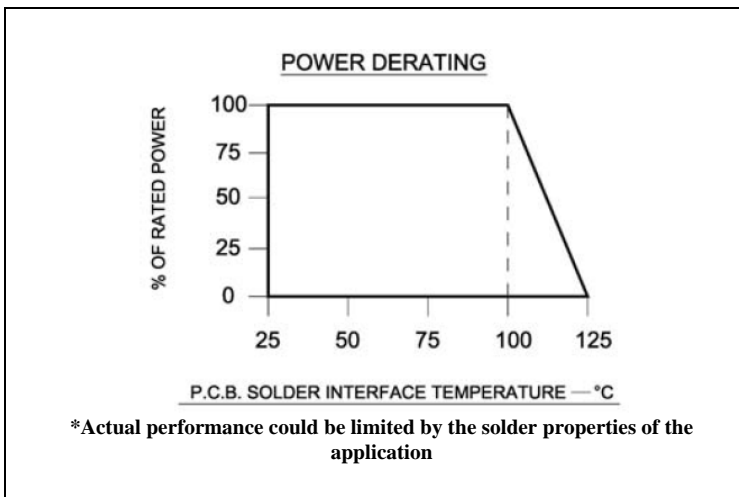
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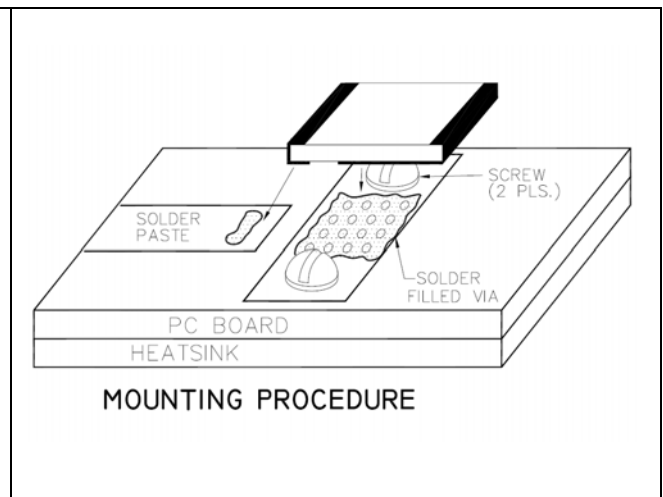
### Typical Performance:



### Power De-rating:



### Mounting Footprint and Procedure:



### Tape & Reel:

