

### Surface Mount Termination 20 Watts, 50Ω



#### Description

The C20A50Z4 is high performance Alumina (Al<sub>2</sub>O<sub>3</sub>) surface mount termination intended as a cost competitive alternative to Aluminum Nitride (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!

#### Features:

- RoHS Compliant
- 20 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

#### General Specifications

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

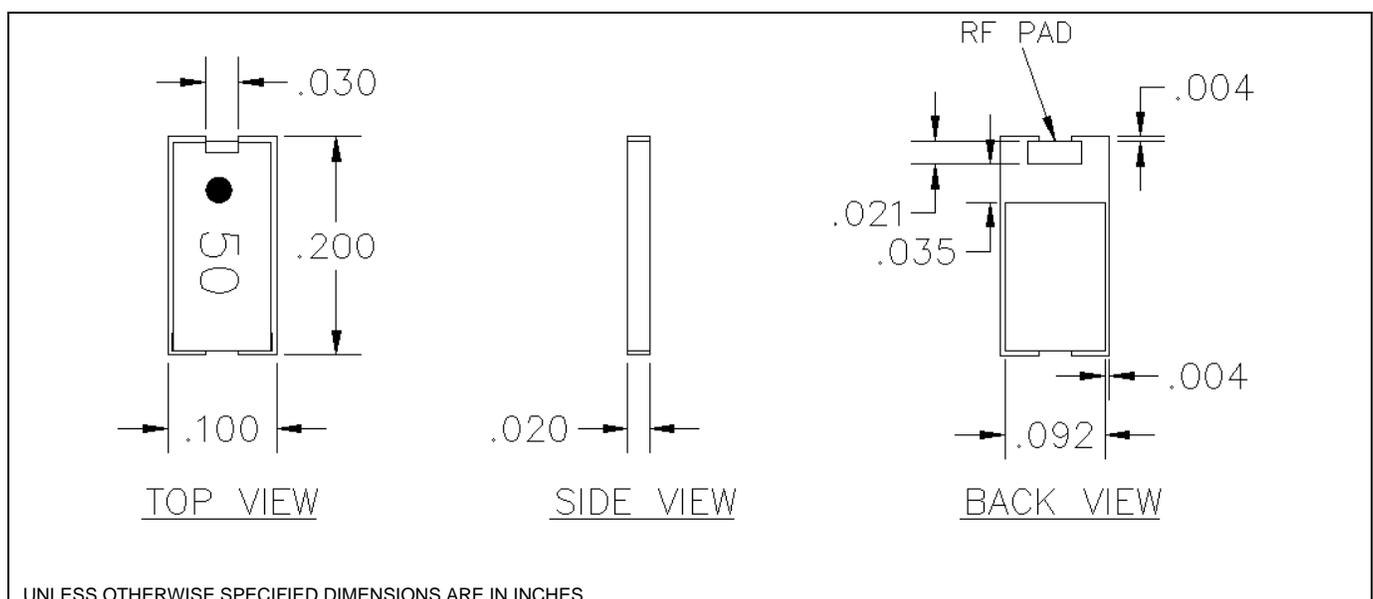
Tolerance is ±0.010", unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

#### Electrical Specifications

<b>Resistance Value:</b>	50 Ohms, ± 2%
<b>Power:</b>	20 Watts
<b>Frequency Range:</b>	DC – 4.0 GHz
<b>Return Loss</b>	>26 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.**

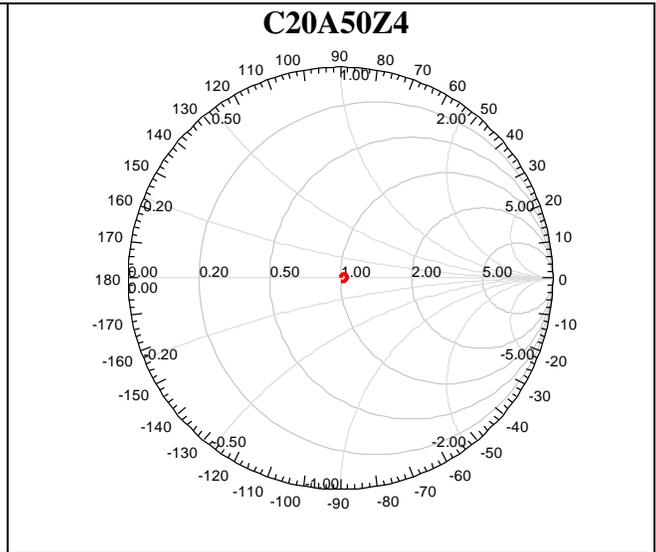
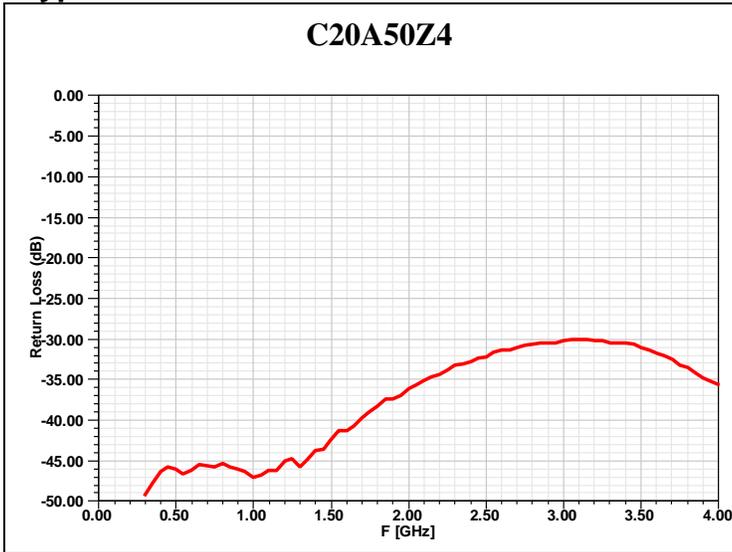
#### Outline Drawing



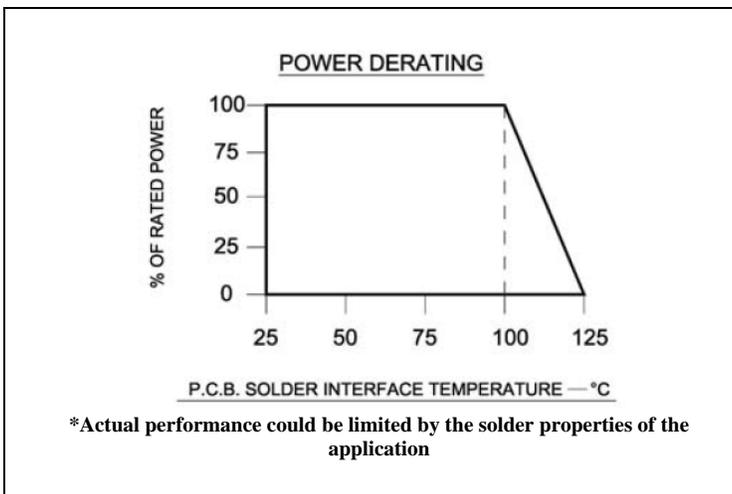
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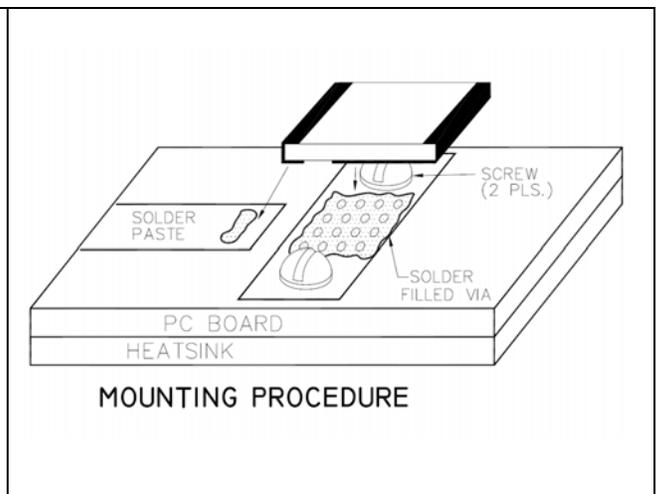
### Typical Performance:



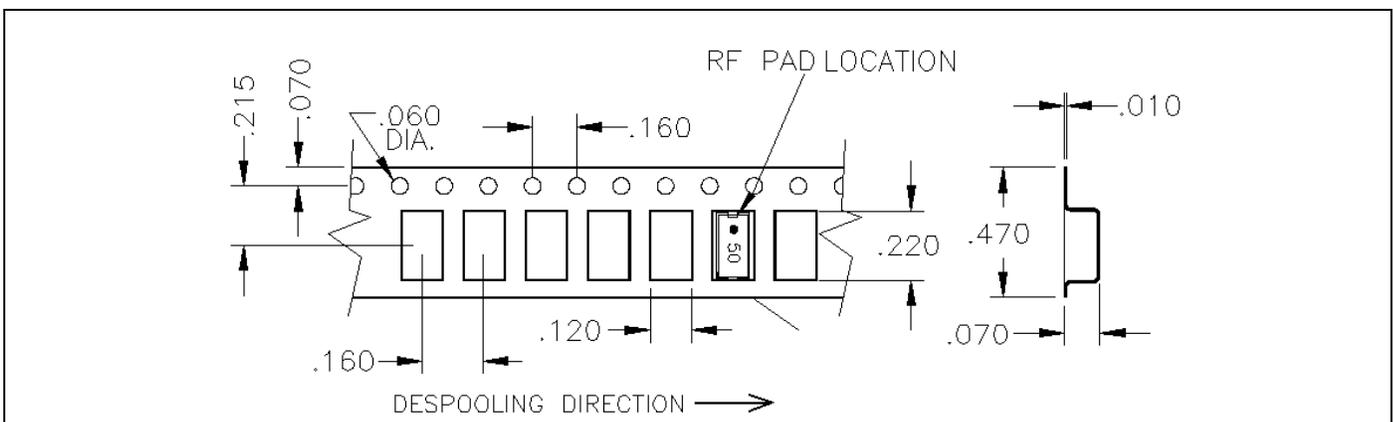
### Power De-rating:



### Mounting Footprint and Procedure:



### Tape & Reel:



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