

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

| | |
|------------------------------|-------------------------------------|
| Resistive Element | Thick film |
| Substrate | Al_2O_3 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 or exceed applicable portions of MIL-E-5400. **All dimensions in inches.**

Electrical Specifications

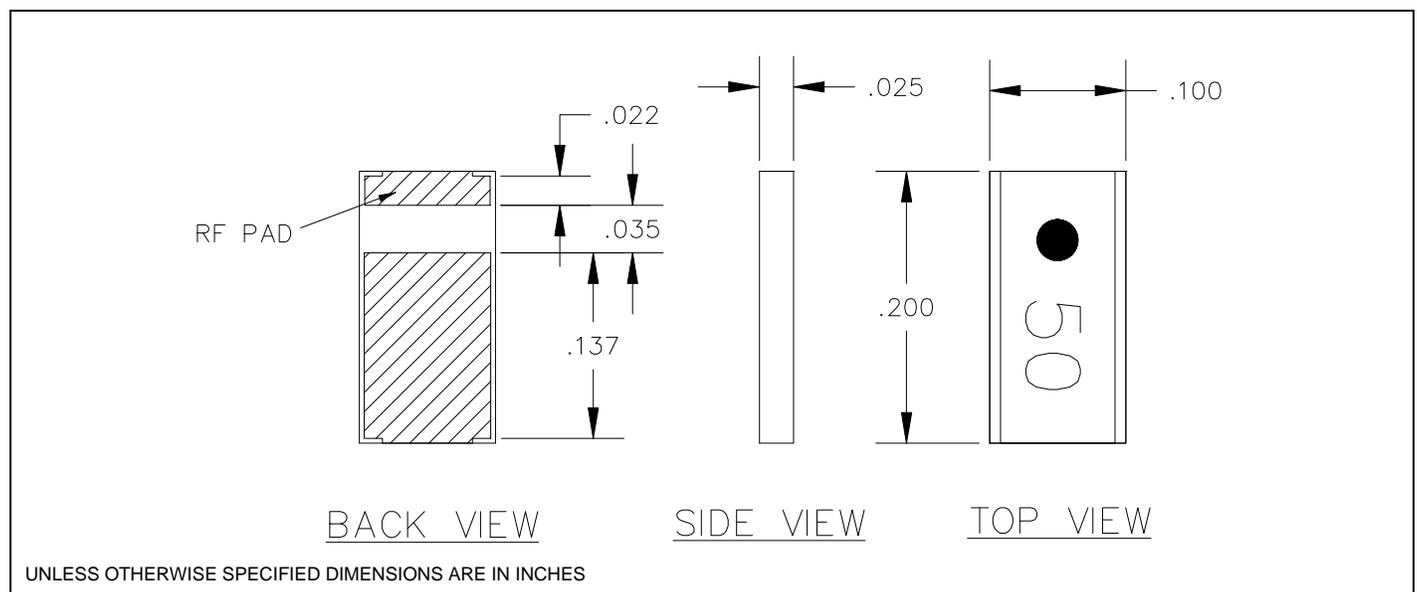
| | |
|--------------------------|--------------------|
| Resistance Value: | 50 Ohms, $\pm 2\%$ |
| Power: | 10 Watts |
| Frequency Range: | DC – 3.0 GHz |
| V.S.W.R.: | < 1.25:1 |

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

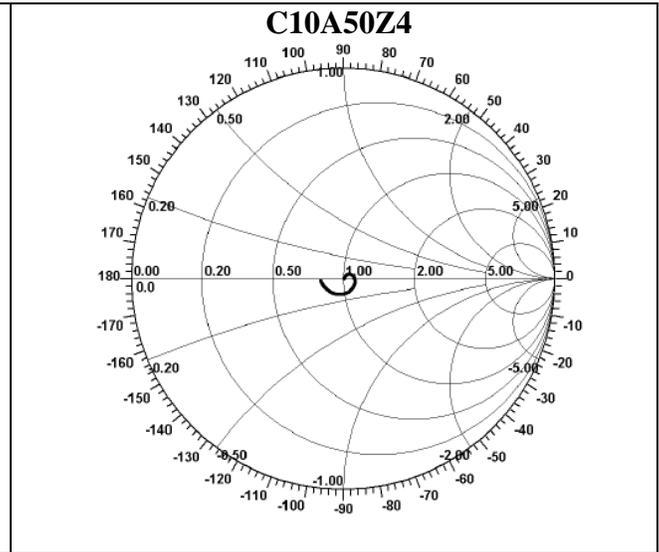
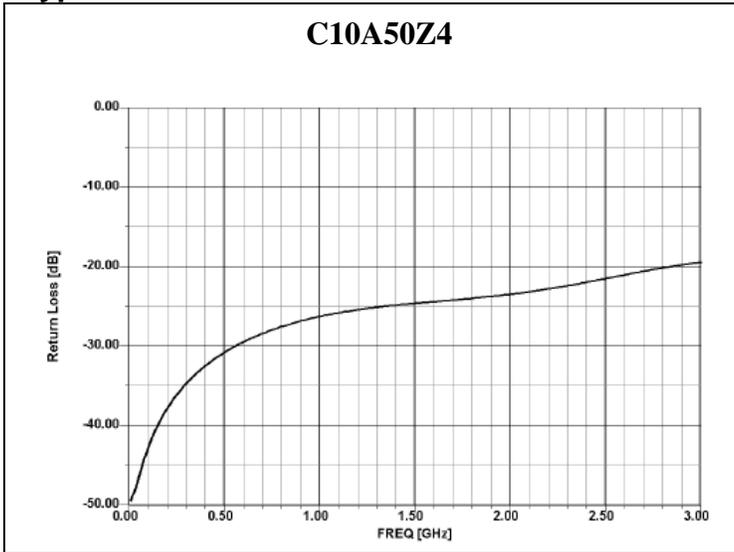
Outline Drawing



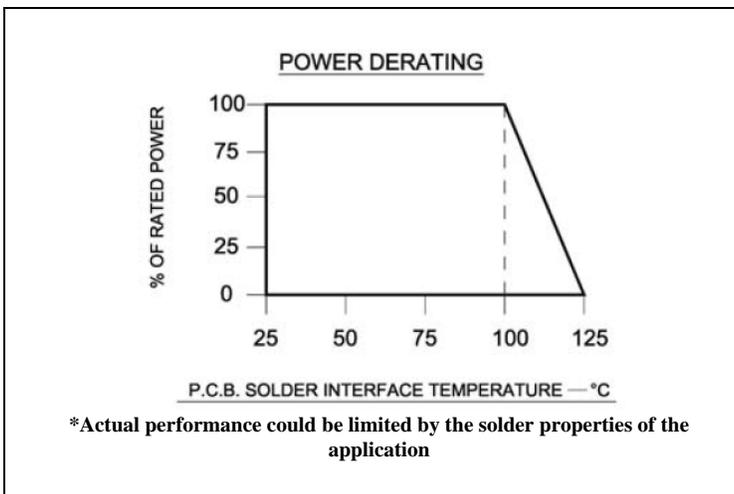
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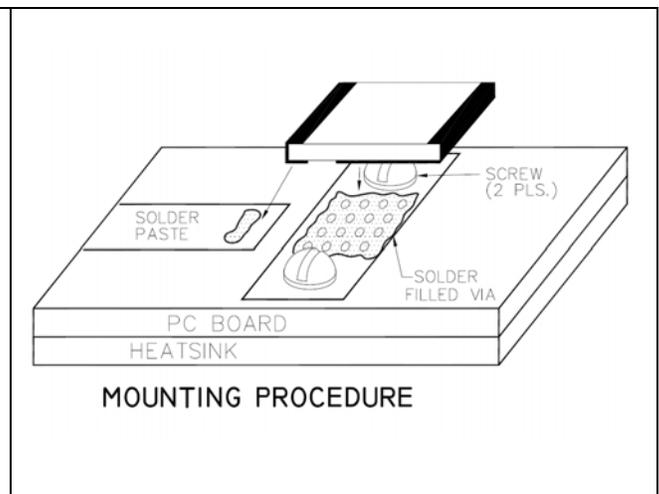
Typical Performance:



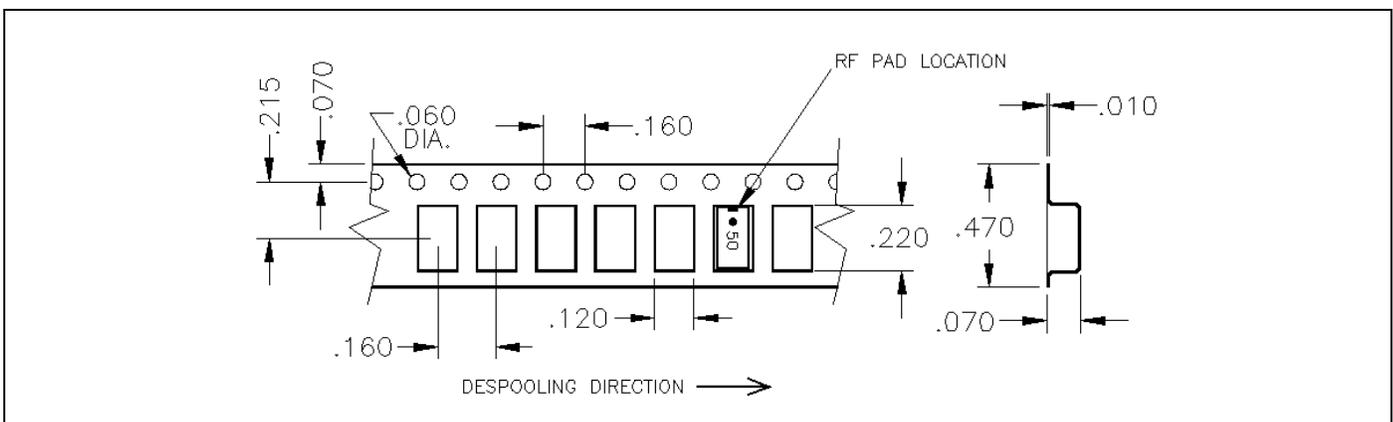
Power De-rating:



Mounting Footprint and Procedure:



Tape & Reel:



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