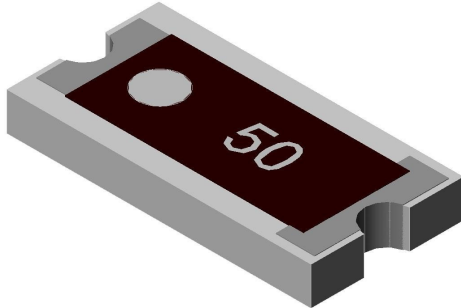


**Surface Mount  
Termination  
10 Watts, 50Ω**



### Description

The RFP-100200A25Z50 is high performance Alumina 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.

### Features:

- 10 Watts
- Lowest Cost
- True Surface Mount
- Alumina Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

### General Specifications

<b>Resistive Element</b>	Thick film
<b>Substrate</b>	Alumina Ceramic
<b>Terminal Finish</b>	Thick film Silver
<b>Operating Temperature</b>	-55 to +125°C (see chart)

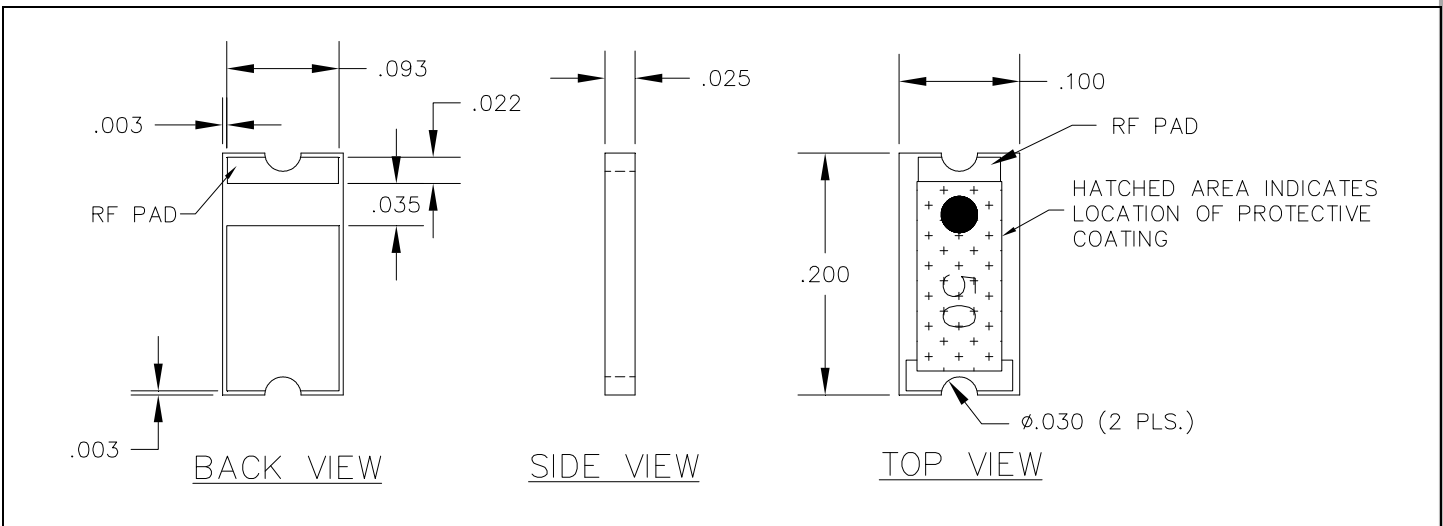
Tolerance is  $\pm 0.010"$ , unless otherwise specified. Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions in inches.

### Electrical Specifications

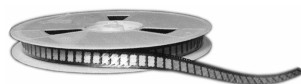
<b>Resistance Value:</b>	50 ohms, $\pm 2\%$
<b>Power:</b>	10 Watts
<b>Frequency Range:</b>	DC – 3.0 GHz
<b>V.S.W.R.:</b>	<1.25:1

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

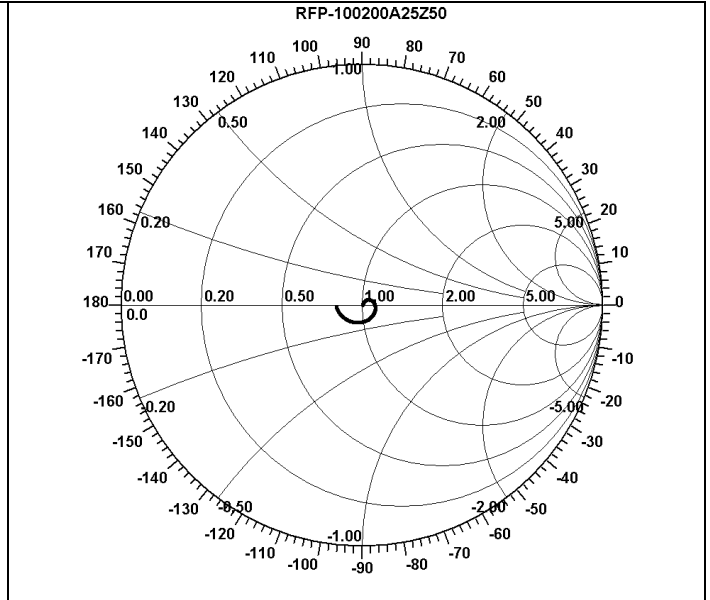
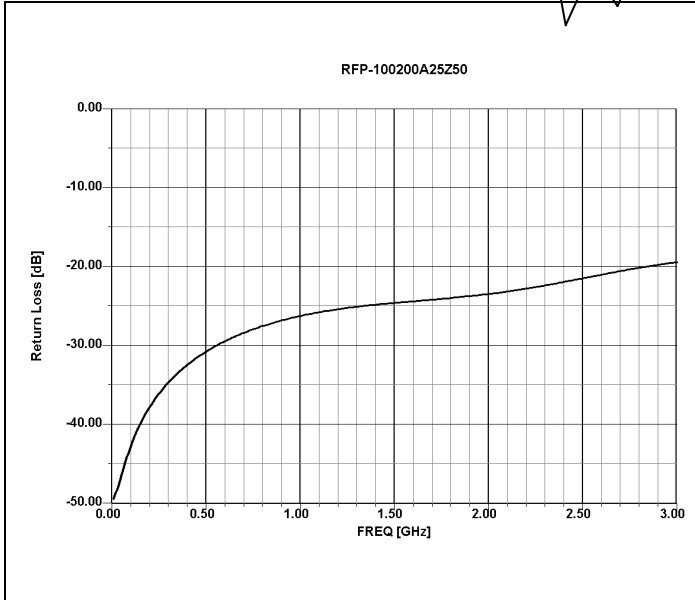
### Outline Drawing



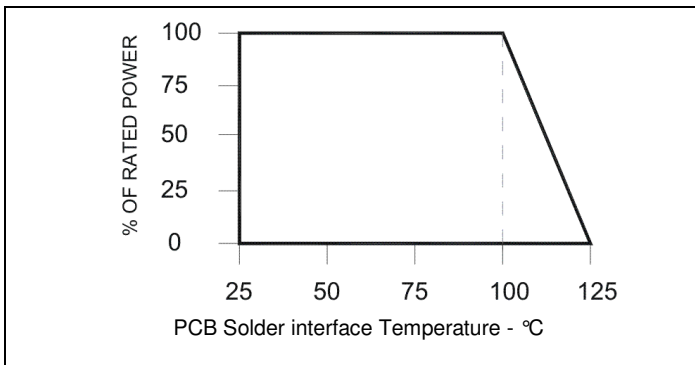
100200A25Z50 (097) Rev C



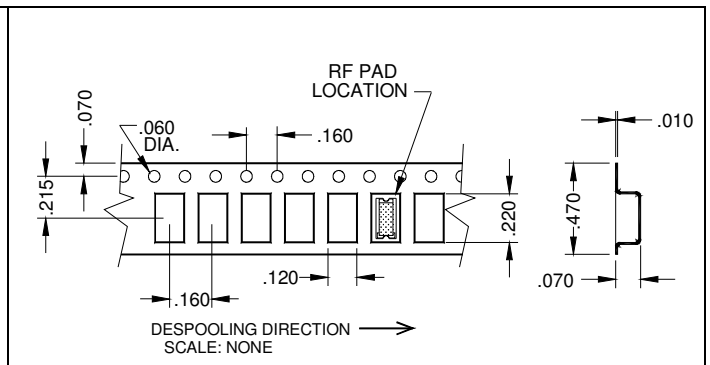
## Typical Performance:



## Power De-rating:



## Tape & Reel:



## Mounting Footprint and Procedure:

Dimension given in inches [millimeters]  
For best thermal performance the PCB should be soldered to the heat sink.

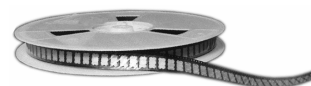
MOUNTING PROCEDURE

1. Drill thermal via through PCB and fill with solder.
2. Solder part in place using appropriate solder with a controlled temperature iron.
3. To ensure good thermal connectivity to heat sink, which is critical for proper operation, drill and tap heatsink and mount PCB board to heatsink using screws.

100200A25Z50 (097) Rev C

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Toll Free: (800) 544-2414  
Europe: +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.



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