Model C18A50Z4

RF Power

Surface Mount Termination
18 Watts, 50Ω

Description

The C18A50Z4 is a high performance RoHS compliant Alumina (Al2O3) surface mount termination intended as a lower cost alternative to Aluminum Nitride (AIN) and Beryllium Oxide (BeO). The SMD 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 90º hybrids, directional couplers, and for use in isolators.

Features:

- **18 Watts**
- **Lowest Cost**
- **RoHS Compliant**
- **Alumina Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

General Specifications

Resistive Element	Thick film
Substrate	Alumina Ceramic
Terminal Finish	Tin over Nickel
Operating Temperature	-55 to +125°C (see chart)

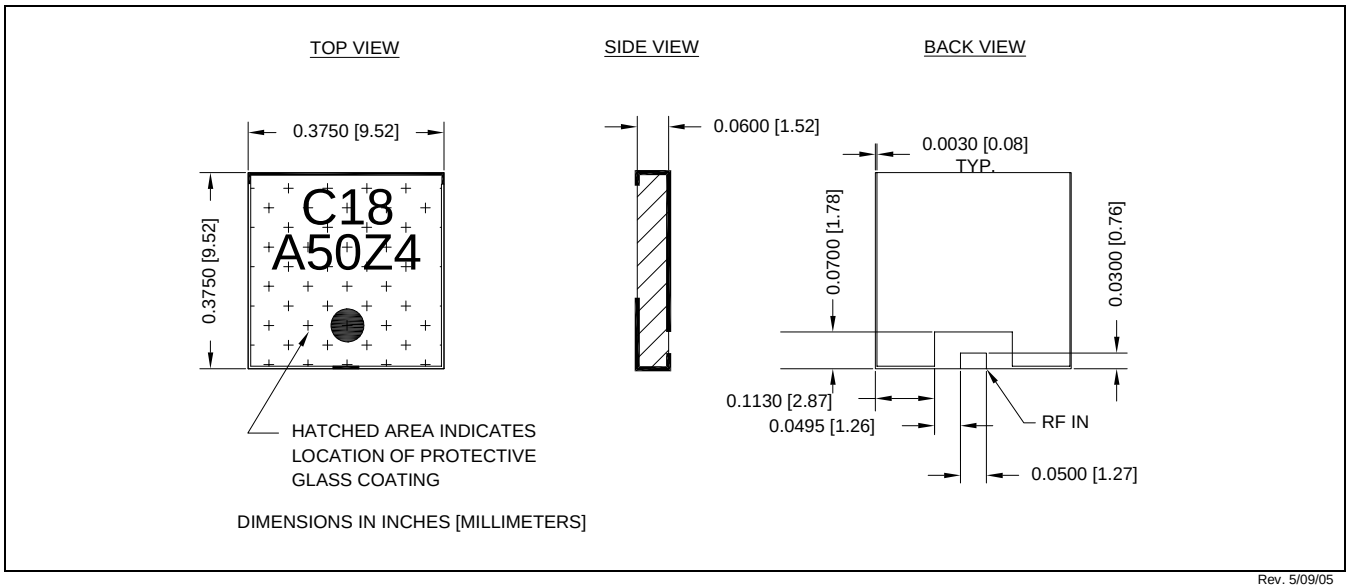
Tolerance is ±0.010", unless otherwise specified. Designed to meet of exceed applicable portions of MIL-E-5400. All dimensions in inches.

Electrical Specifications

Resistance Value:	50 ohms, ± 2%
Power:	18 Watts
Frequency Range:	1KHz – 2.3GHz
V.S.W.R.:	<1.20:1

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

Outline Drawing



Rev. 5/09/05

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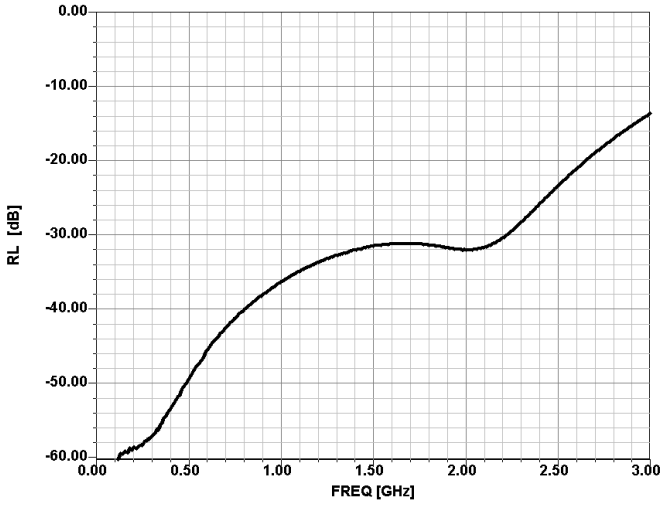
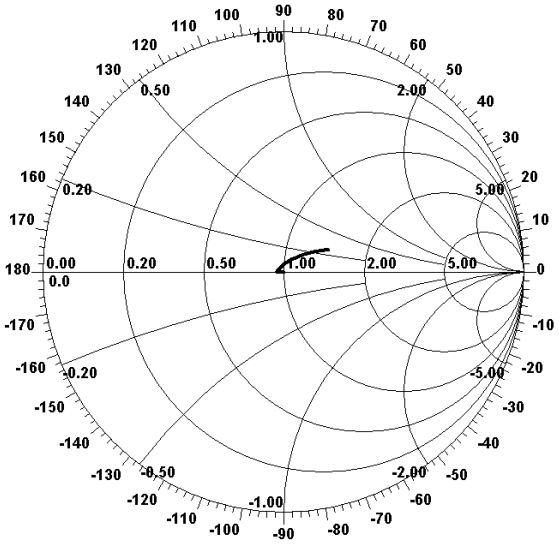
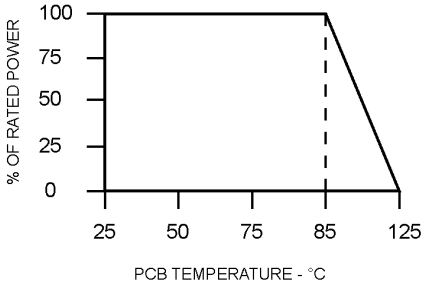
Typical Performance:

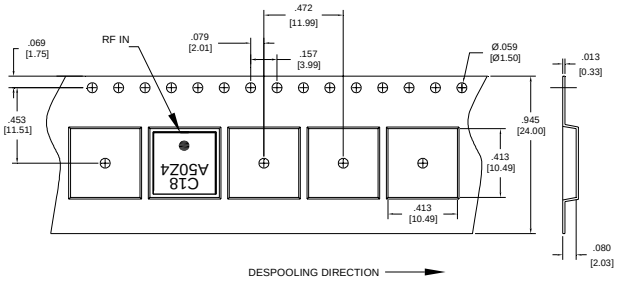




Power De-rating:

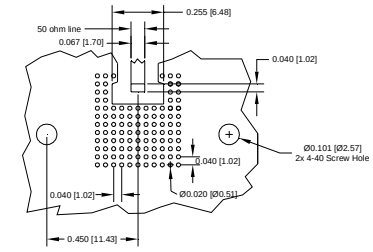


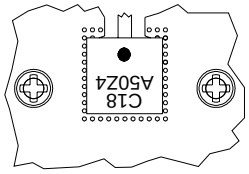
Tape & Reel:



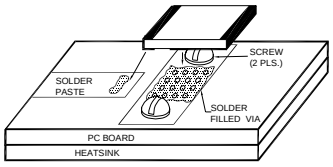
DIMENSIONS IN INCHES [MILLIMETERS]

Mounting Footprint and Procedure:





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

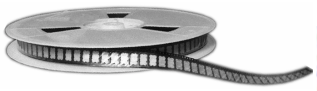


MOUNTING PROCEDURE

1. Drill thermal vias through PCB and fill with solder.
2. To ensure good thermal connectivity to heat sink, which is critical for proper operation drill and tap heatsink and mount PCB to heat sink using screws.

USA/Canada: (315) 432-8909
Toll Free: (800) 544-2414
Europe: +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.



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What'll we think of next?™