

Surface Mount Termination 100 Watts, 50 Ω

Features:

- **RoHS Compliant**
- 100 Watts
- DC 4.0 GHz •
- **AIN Ceramic**
- **Non-Nichrome Resistive** Element
- Low VSWR
- 100% Tested
- Small Size

Outline Drawing

Description

The C100N50Z4A is high performance Aluminum Nitride (AIN) surface mount termination intended as a cost competitive alternative to 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 high power 90 degree couplers and for use in microstrip circuits. The termination is also RoHS compliant!

General Specifications

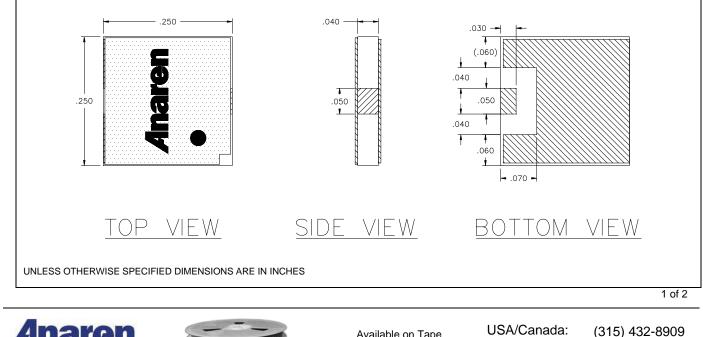
Resistive Element	Thick film
Substrate	AIN Ceramic
Terminal Finish	Matte Tin over Nickel Barrier
Operating Temperature	-55 to +200°C (see de rating chart)

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

Electrical Specifications

Resistance Value:	50 Ohms, ± 2%
Power:	100 Watts
Frequency Range:	DC – 4.0 GHz
Return Loss	>24 dB DC - 2.7 GHz
	>20 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.







USA/Canada: Toll Free: Europe:

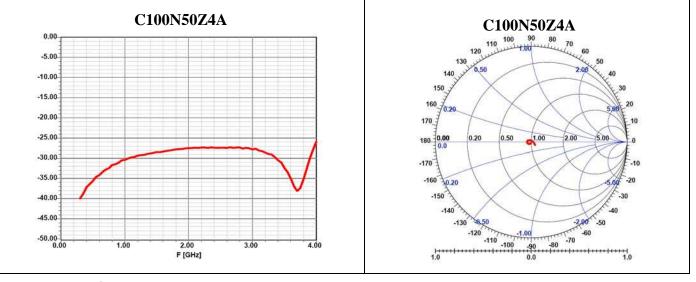
(800) 544-2414

+44 2392-232392

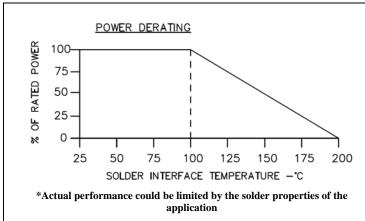
Model C100N50Z4A



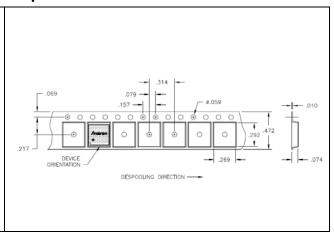
Typical Performance:



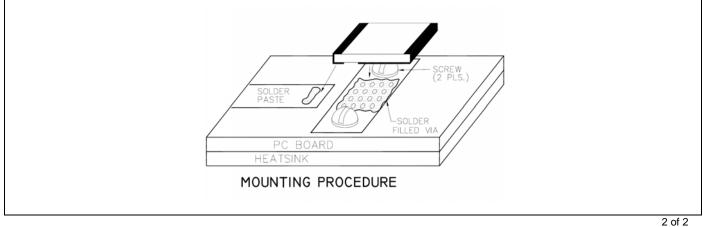
Power De-rating:







Mounting Footprint and Procedure:



USA/Canada: Toll Free: Europe:

(315) 432-8909 (800) 544-2414 +44 2392-232392

Available on Tape and Reel For Pick and Place Manufacturing.

