

Flange Mount Termination

300 Watts, 50Ω



Description

The G300N50W4 is high performance Aluminum Nitride (AlN) flange mount termination. The performance is specifically tuned for ISM band 2.4-2.5GHz and is intended for use in RF heating applications. The termination is also RoHS compliant!

General Specifications

Resistive Element	Thick Film
Substrate	AlN Ceramic
Mounting Flange	Nickel Plated Copper
Operating Temperature	-50 to +150°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

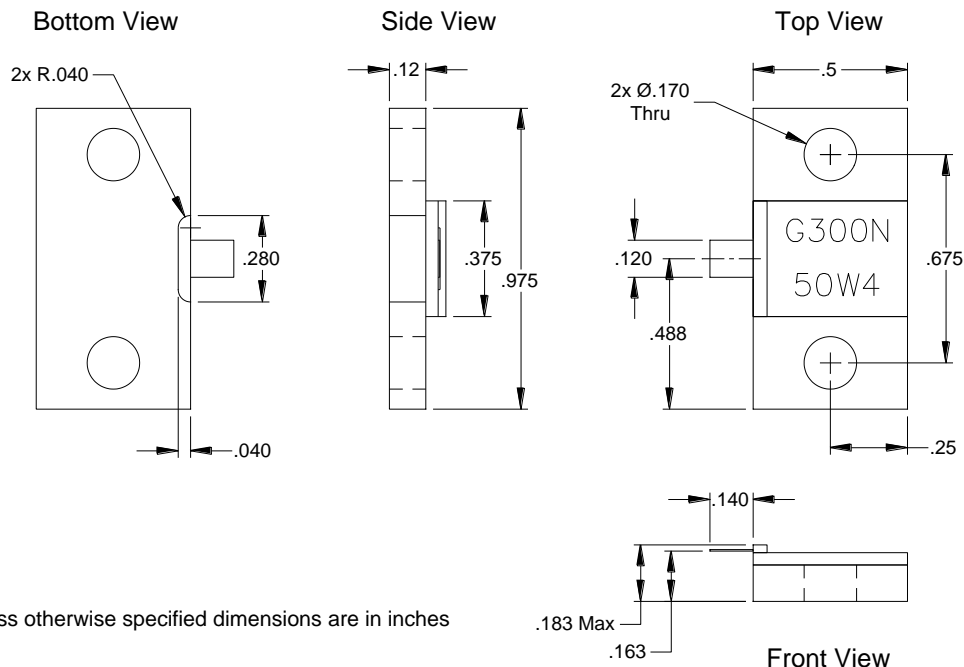
Resistance Value:	50 Ohms Nominal
Power:	300 Watts
Frequency Range:	2.4GHz – 2.5GHz
Return Loss	>25dB:

Specification based on unit properly installed using suggested mounting instructions and a 50 ohm nominal impedance. **Specifications subject to change.**

Features:

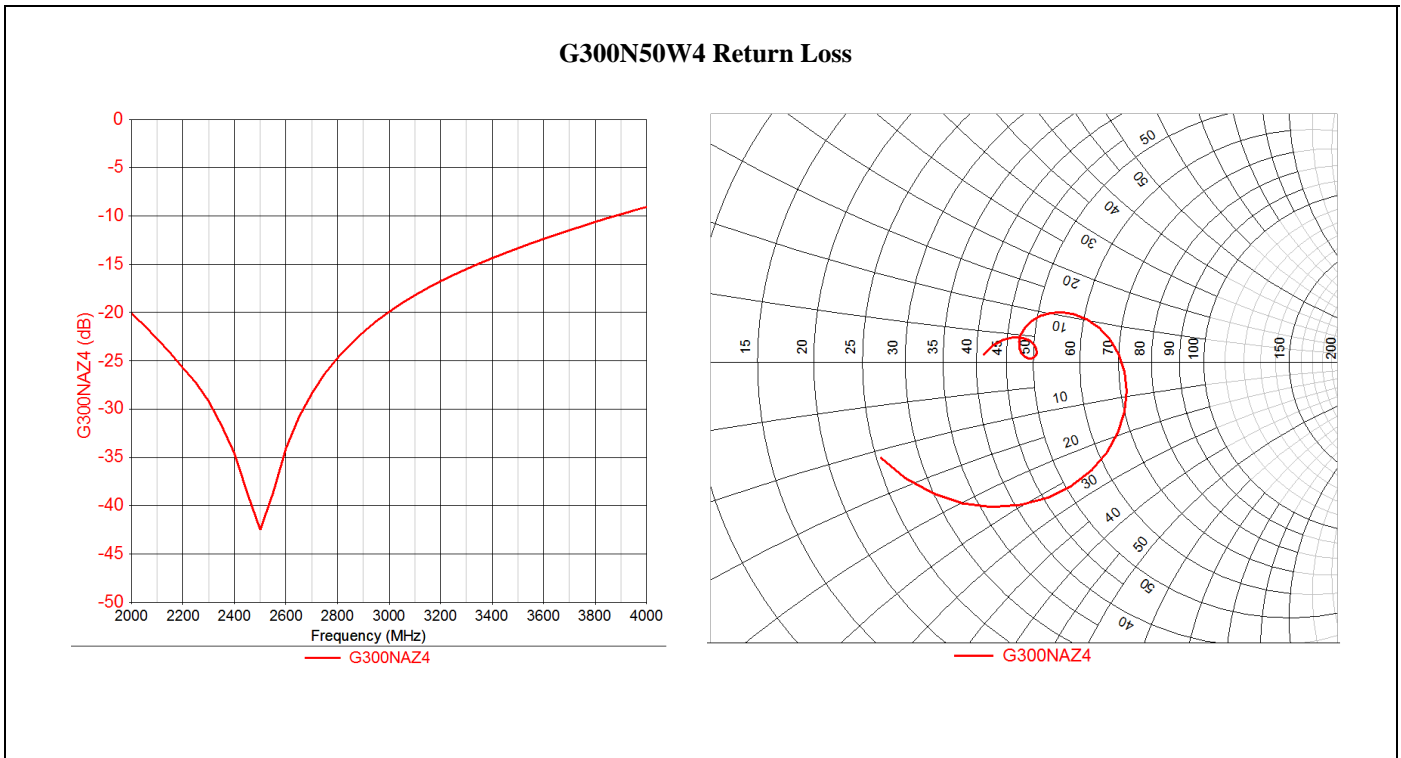
- RoHS Compliant
- 300 Watts
- 2.4 – 2.5 GHz
- AlN Ceramic
- Non-Nichrome Resistive Element
- Low VSWR
- 100% Tested

Outline Drawing

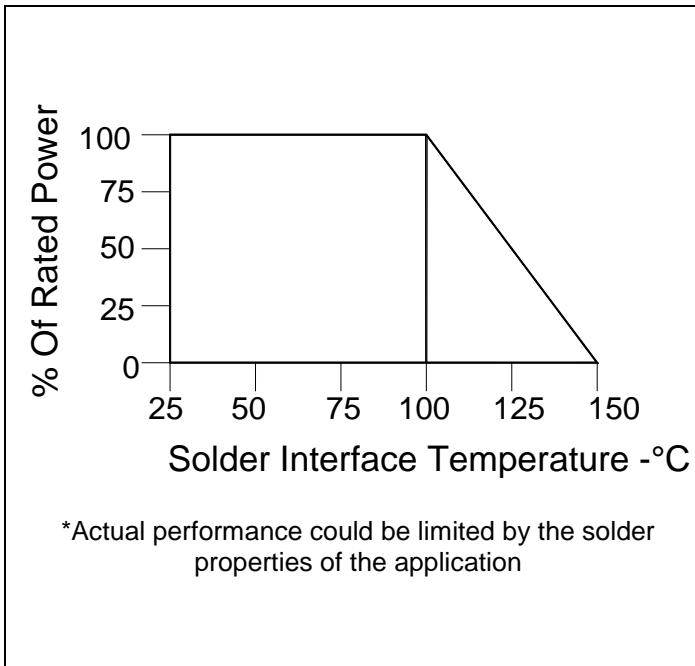


Unless otherwise specified dimensions are in inches

Typical Performance with 30mil thick PCB and recommended Z-bend lead:



Power De-rating:



Mounting and Lead Stress Relief Options:

The diagrams illustrate three mounting scenarios. The first two, 'Board lower than lead' and 'Board even with lead', are labeled as 'Suggested stress relief methods'. The third, 'Board higher than lead', is labeled as 'Not recommended application'.

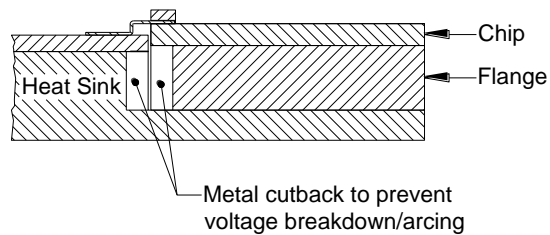
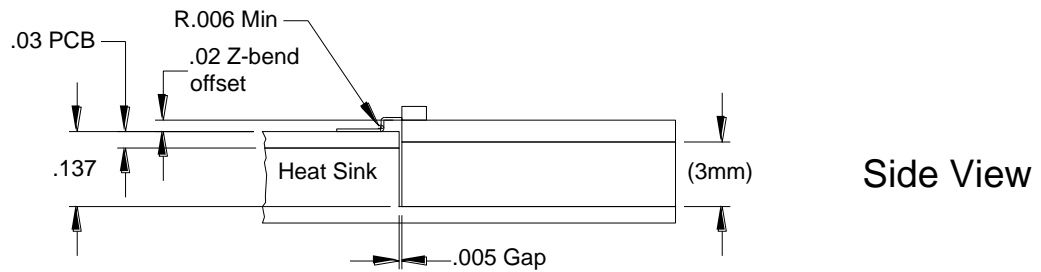
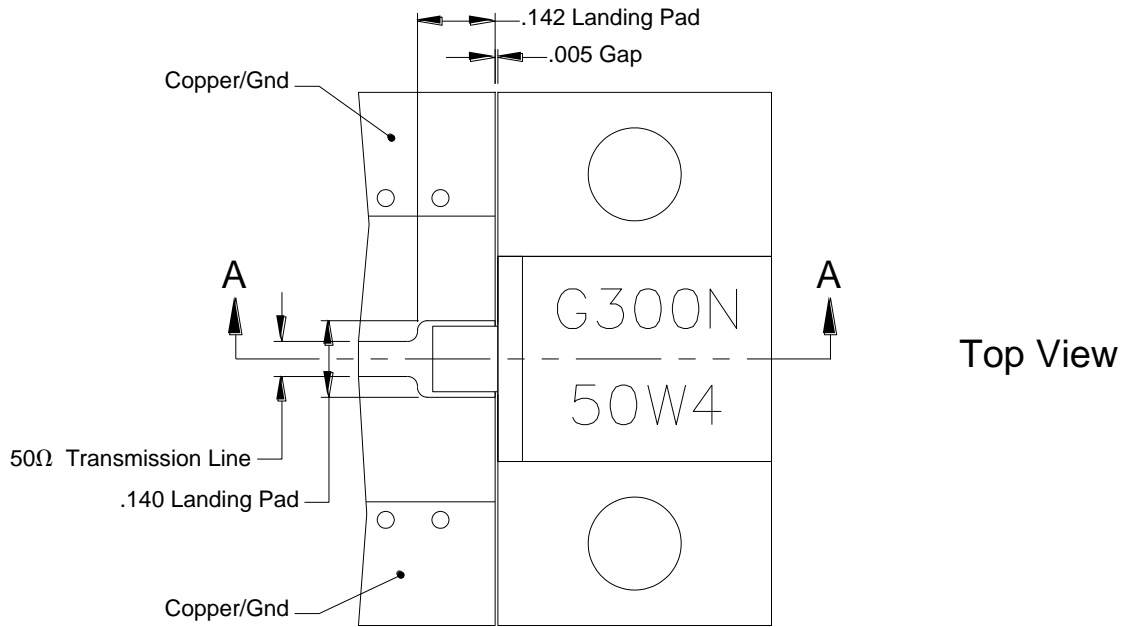
Suggested stress relief methods
Scale: None

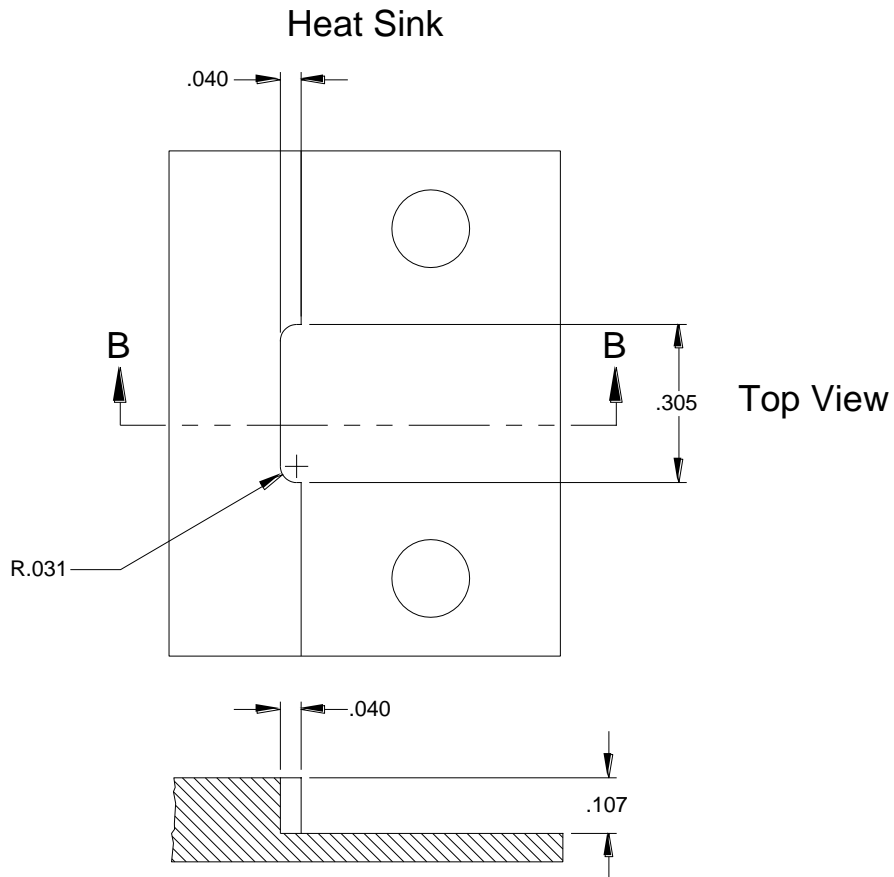
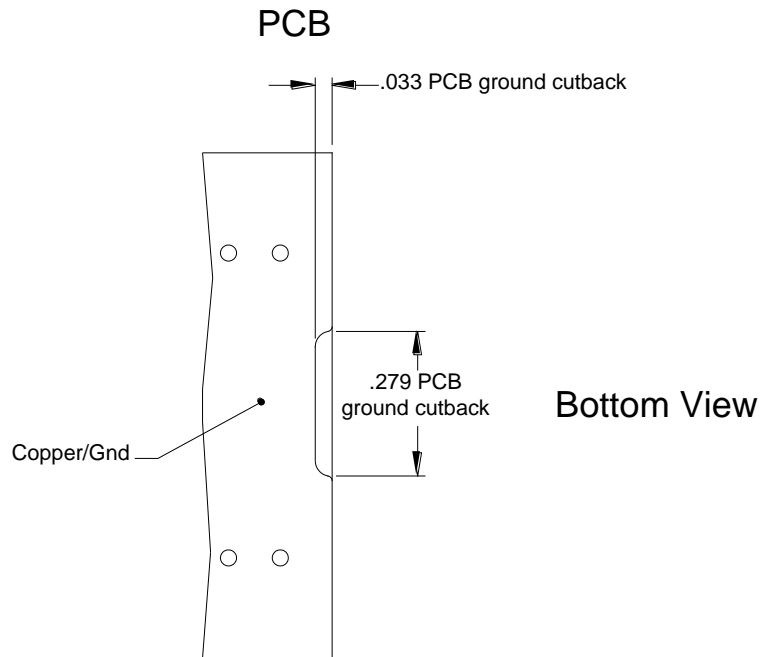
Not recommended application
Scale: None

Suggested Mounting Procedures:

1. Make sure that the devices are mounted on flat surfaces to optimize the heat transfer
2. Position devices on mounting surface and solder in place using appropriate solder
3. solder leads in place using appropriate solder type with a controlled temperature iron

Recommended Test Fixture Dimensions for 30mil thick Dk 3.5 PCB





Recommended Test Fixture Dimensions for 20mil thick Dk 3.5 PCB

