Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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Model G300N50W4

REV A

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

Features:

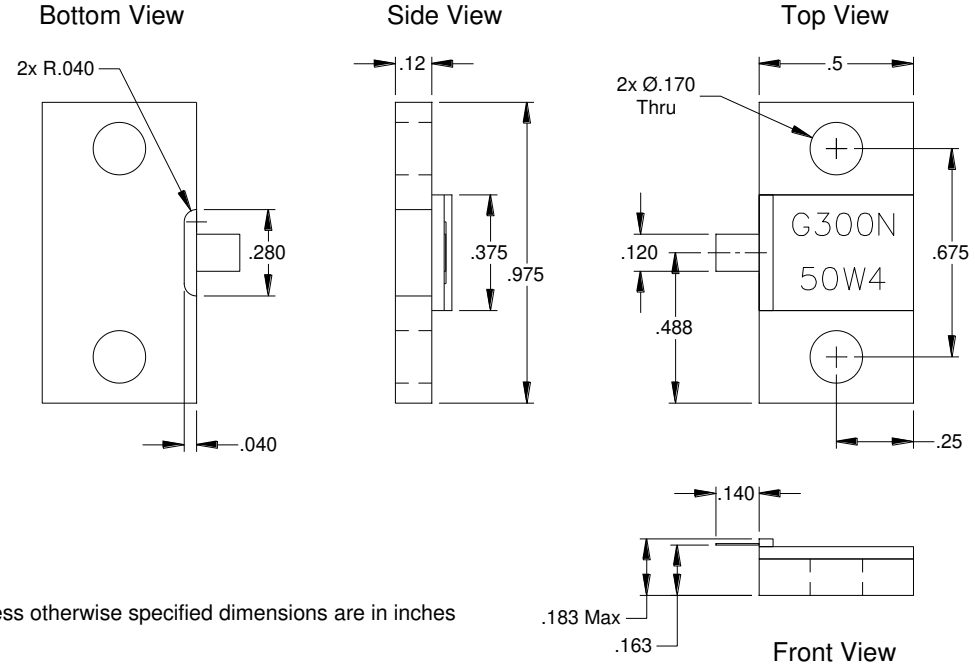
- **RoHS Compliant**
- **300 Watts**
- **2.4 – 2.5 GHz**
- **AIN Ceramic**
- **Non-Nichrome Resistive Element**
- **Low VSWR**
- **100% Tested**

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.**

Outline Drawing



Unless otherwise specified dimensions are in inches

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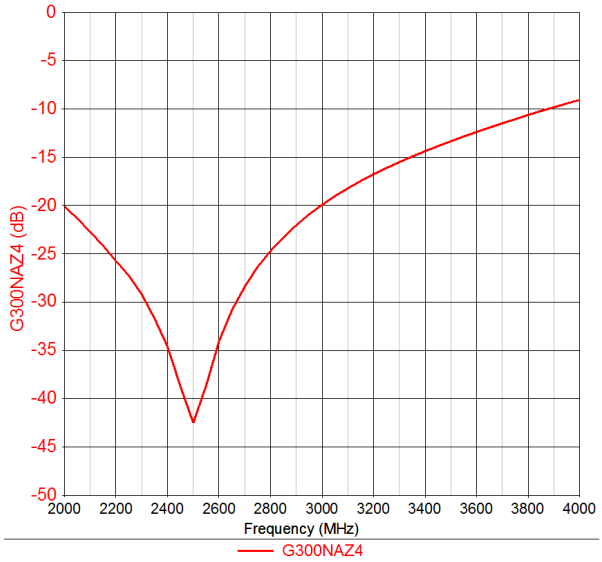
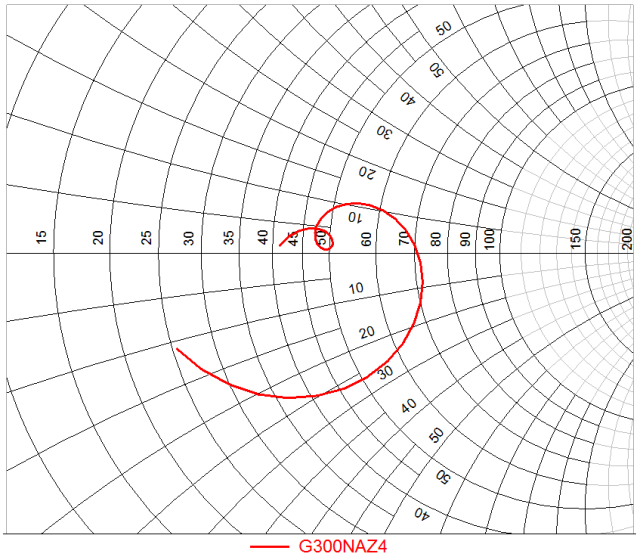
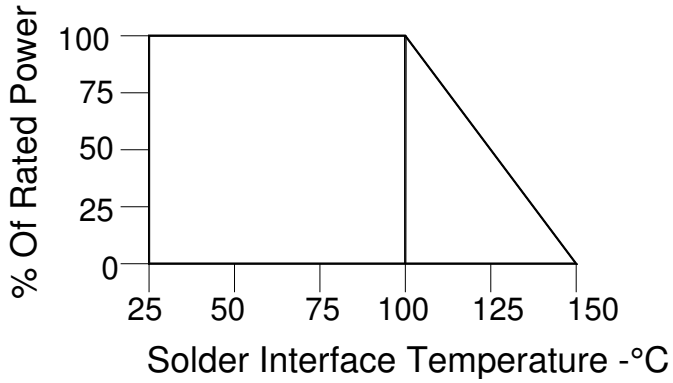
Typical Performance with 30mil thick PCB and recommended Z-bend lead:

G300N50W4 Return Loss



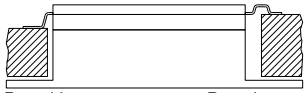


Power De-rating:

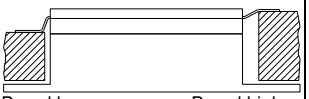


*Actual performance could be limited by the solder properties of the application

Mounting and Lead Stress Relief Options:



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

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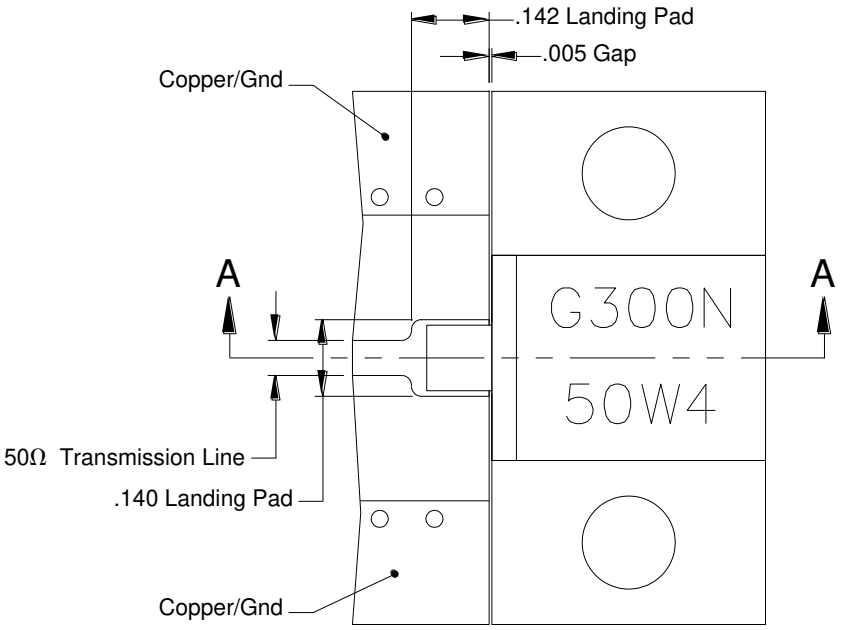
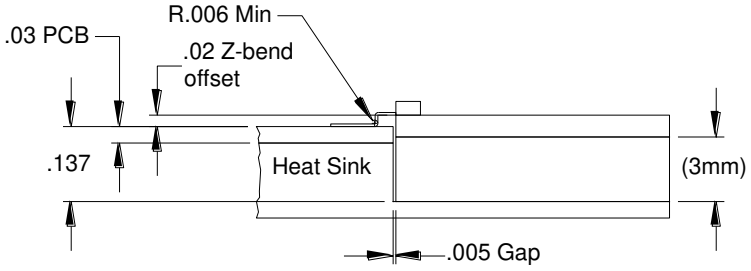
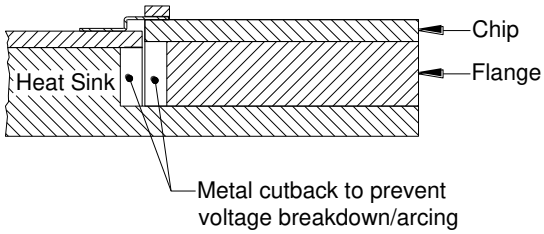
Recommended Test Fixture Dimensions for 30mil thick Dk 3.5 PCB



Top View



Side View



Section A-A

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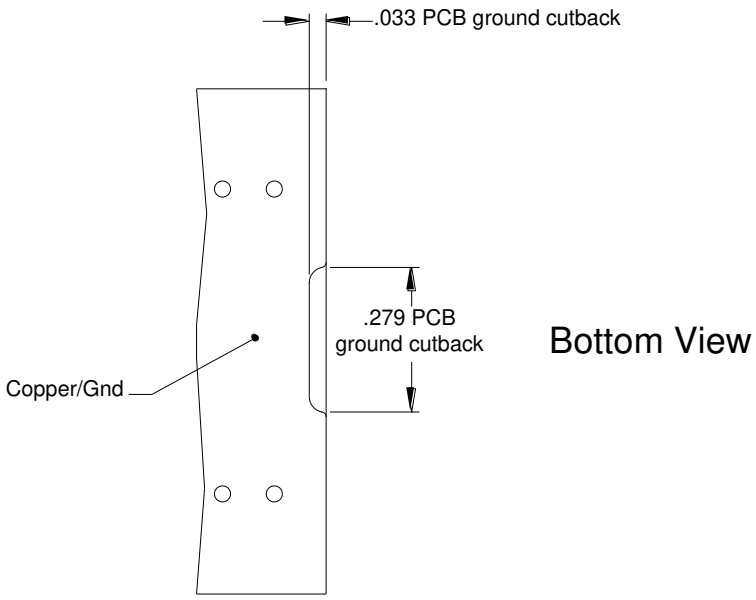
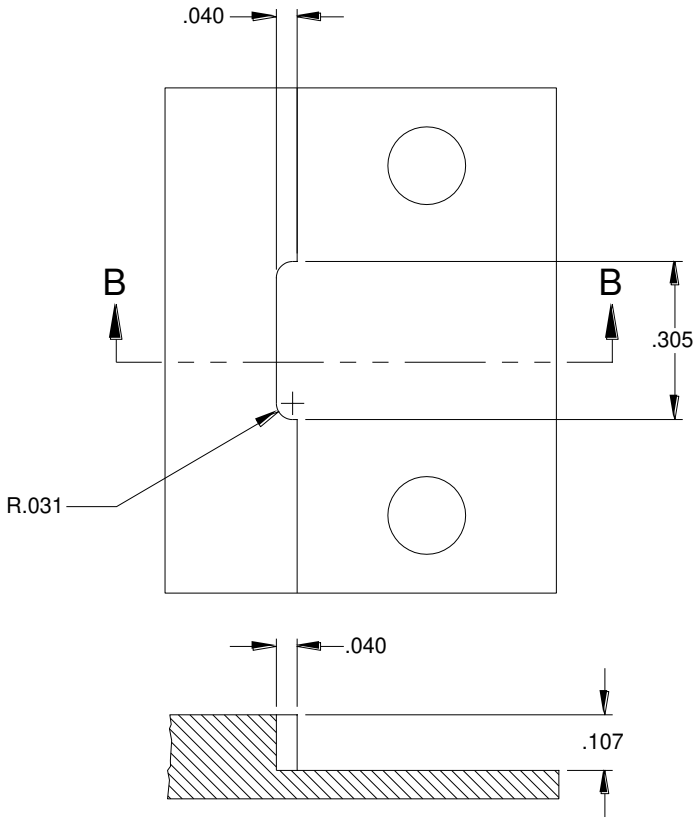
PCB



Bottom View

Heat Sink



Top View

Section B-B

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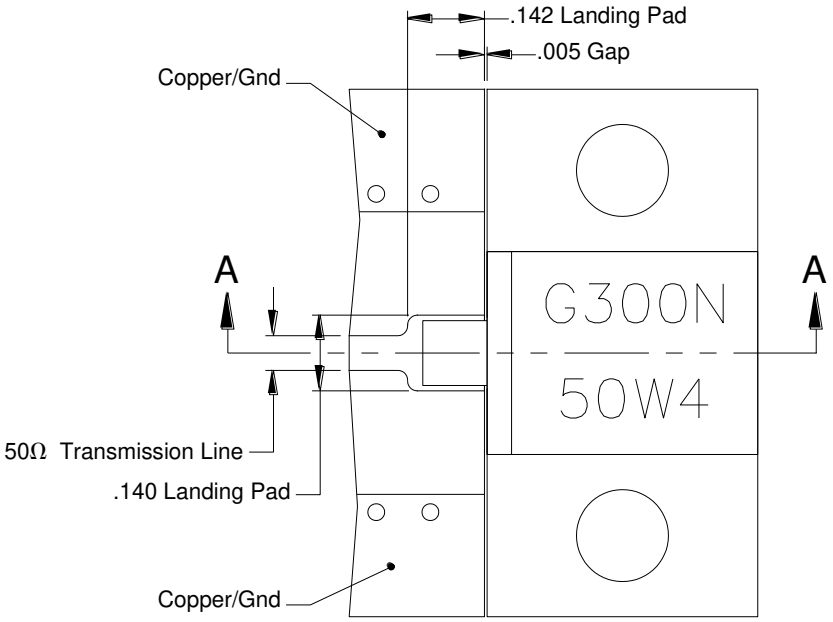
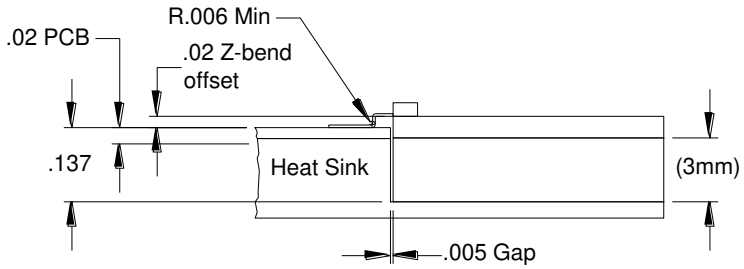
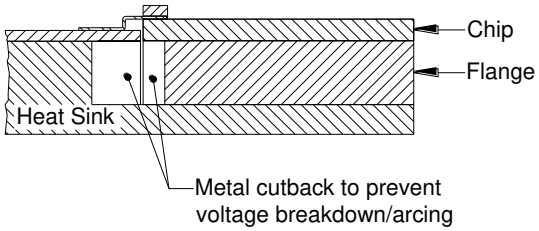
Recommended Test Fixture Dimensions for 20mil thick Dk 3.5 PCB



Top View



Side View



Section A-A

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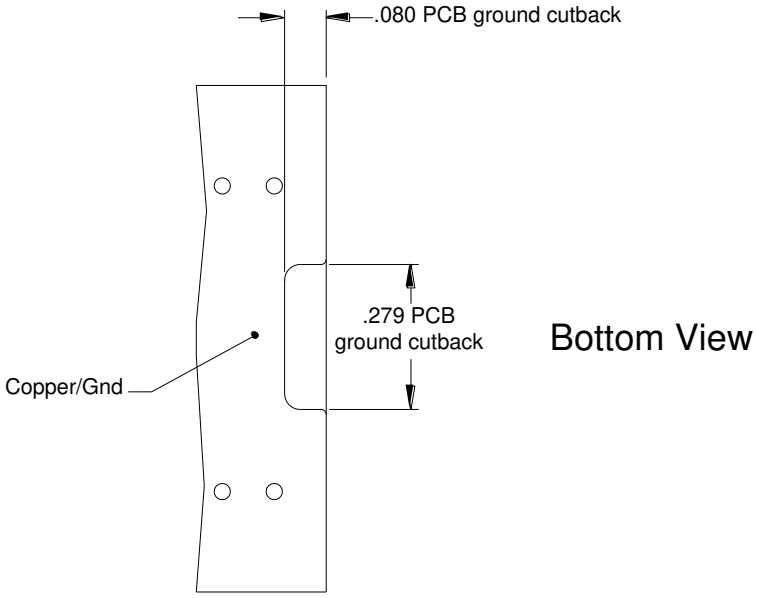
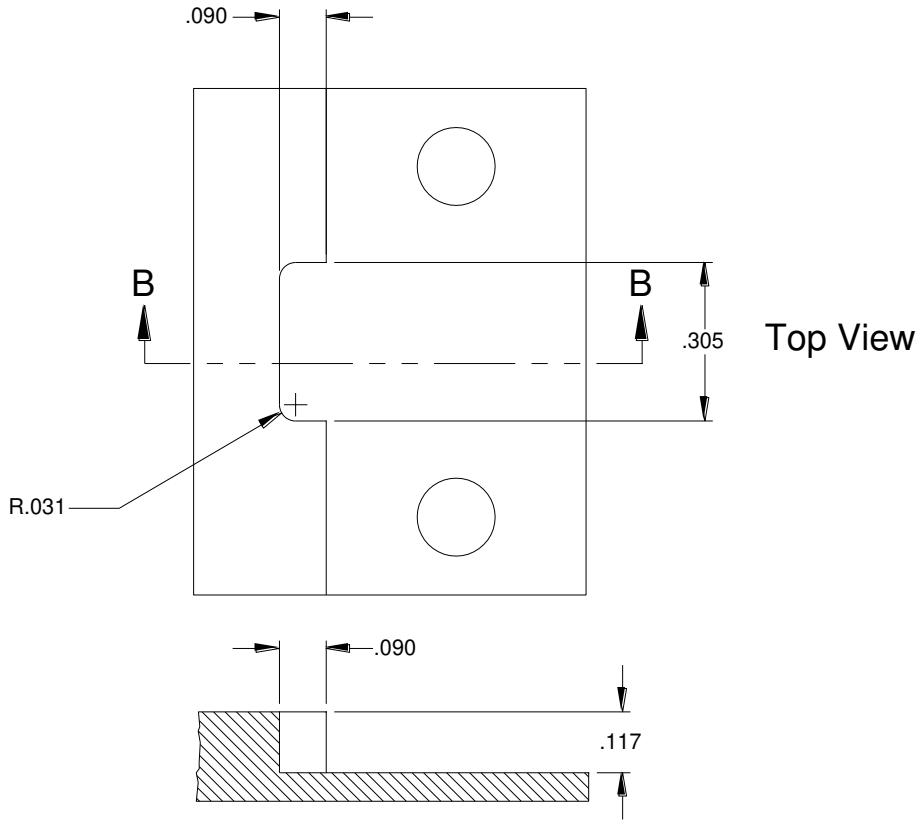
PCB



Heat Sink



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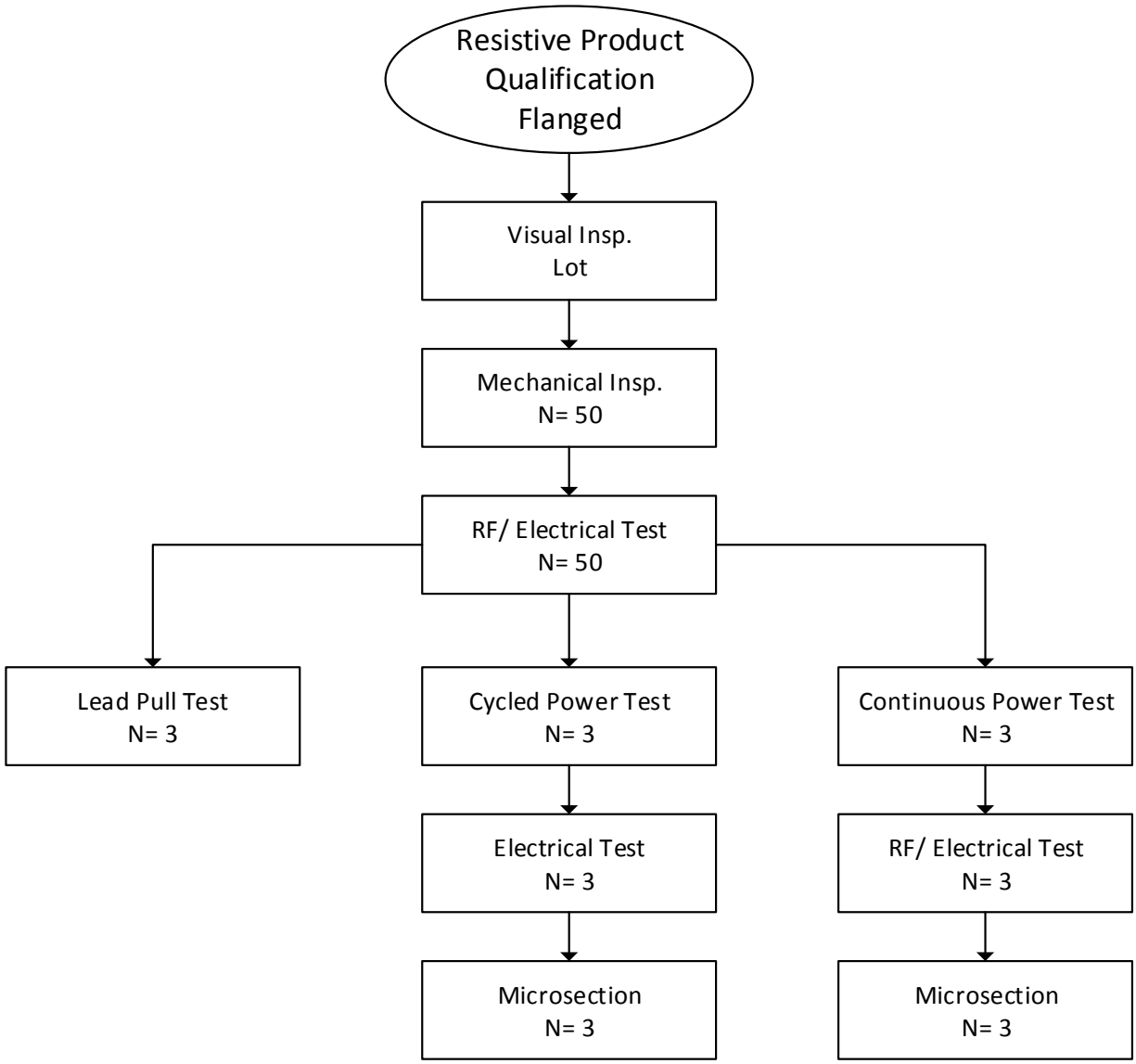

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