

50 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 3 GHz Rated to 300 Watts, Heatsink Paint Body, 1.45 VSWR



## SA3N300-50

### Features

### Applications

### Description

Fairview Microwave carries a broad selection of fixed attenuators with a wide range of attenuation levels, frequency ranges, and power dissipation ranges. Also known as RF pads, RF microwave attenuators lower the amplitude of a signal (or attenuate) a known amount. These attenuator pads can be used in a wide variety of applications including reducing a signal level to protect measurement equipment or other circuitry, extending the range of power meters and amplifiers, and impedance matching circuits by reducing the VSWR seen by adjacent components. RF attenuators can prevent signal overload in amplifiers, receivers and detectors, adjusting the signal level to a range that is optimal.

Few RF components are as commonly used as fixed coaxial attenuators, and Fairview Microwave carries one of the largest in-stock varieties and ships them same day. The SA3N300-50 is a 50 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 300 Watts. The versatile coaxial package uses type N male to type N female connectors. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		50		dB
Attenuation Accuracy			±1.45	dB
VSWR			1.45:1	
Input Power, CW			300	Watts
Input Power, Peak			1	kWatts

### Mechanical Specifications

#### Size

Length	13.9 in [353.06 mm]
Width/Diameter	5.12 in [130.05 mm]
Height	5.51 in [139.95 mm]
Weight	0.52911 lbs [240 g]
Body Material and Plating	Black Anodized Aluminum Heatsink, Paint

#### Configuration

Design	Fixed
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### Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold

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**Connectors**

Description	Connector 1	Connector 2
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Coupling Nut Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Nickel

**Environmental Specifications**

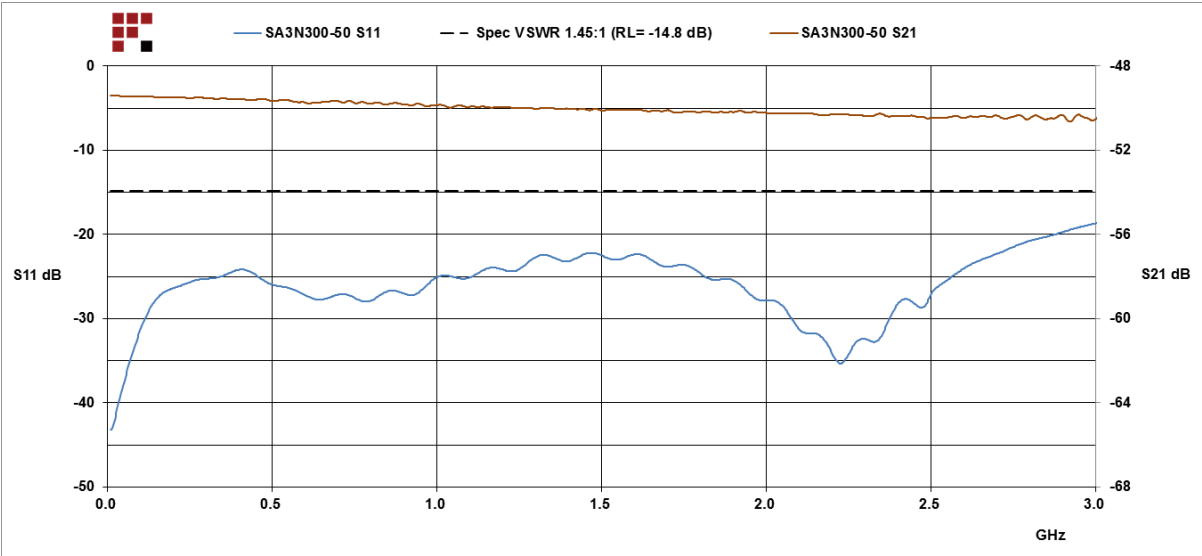
**Temperature**  
Operating Range -55 to +125 deg C

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

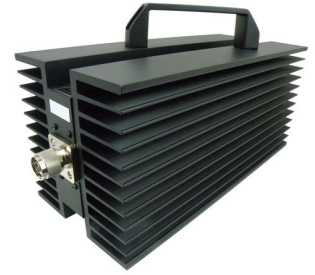
Notes:

**Typical Performance Data**



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50 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 3 GHz Rated to 300 Watts, Heatsink Paint Body, 1.45 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [50 dB Fixed Attenuator N Male \(Plug\) to N Female \(Jack\) Up to 3 GHz Rated to 300 Watts, Heatsink Paint Body, 1.45 VSWR SA3N300-50](https://www.fairviewmicrowave.com/50db-fixed-attenuator-n-male-n-female-300-watts-sa3n300-50-p.aspx)

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