20 dB Fixed Attenuator N Female (Jack) to N Female (Jack) Directional Up to 3 GHz Rated to 300 Watts, Heatsink Body, 1.4 VSWR



## SA3NFF300W-20

### 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 SA3NFF300W-20 is a 20 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 300 Watts. The versatile coaxial package uses type N female connectors. The Black 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		20		dB
Attenuation Accuracy		1.25		dB
VSWR			1.4:1	
Input Power, CW			300	Watts
Input Power, Peak			2.5	kWatts

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1.5	1.5 to 3				GHz
VSWR, Max	1.2:1	1.4:1				
Attenuation Accuracy, Typ	1	1.25				dB

### **Mechanical Specifications**

Size	
Length	0 in [0 mm]
Width/Diameter	6.2 in [157.48 mm]
Height	6.3 in [160.02 mm]
Weight	4.4405 lbs [2.01 kg]
Body Material and Plating	Black Aluminum Heatsink

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Configuration Design

#### Connectors

Description	Connector 1	Connector 2
Туре	N Female	N Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

### **Environmental Specifications**

Temperature Operating Range

-55 to +125 deg C

Fixed, Directional

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

#### **Typical Performance Data**

20 dB Fixed Attenuator N Female (Jack) to N Female (Jack) Directional Up to 3 GHz Rated to 300 Watts, Heatsink Body, 1.4 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: 20 dB Fixed Attenuator N Female (Jack) to N Female (Jack) Directional Up to 3 GHz Rated to 300 Watts, Heatsink Body, 1.4 VSWR SA3NFF300W-20

URL: https://www.fairviewmicrowave.com/20db-fixed-attenuator-n-female-n-female-300-watts-sa3nff300w-20-p.aspx

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