30 dB Fixed Attenuator SMA Female (Jack) to SMA Female (Jack) Directional Up to 18 GHz Rated to 50 Watts, Heatsink Body, 1.6 VSWR



## SA18SFSF50W-30

#### Features

- · Design: Fixed, Directional Attenuator
- Connector 1: SMA Female

- Connector 2: SMA Female
- · Body Material and Plating: Black Anodized Aluminum Heatsink

### 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 SA18SFSF50W-30 is a 30 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 50 Watts. The versatile coaxial package uses SMA 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		18	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
VSWR			1.6:1	
Input Power, CW			50	Watts
Input Power, Peak			500	Watts

### **Specifications by Frequency**

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4	12.4 to 18			GHz
VSWR, Max	1.3:1	1.45:1	1.6:1			
Attenuation Accuracy, Typ	0.75	1	1.5			dB

### **Mechanical Specifications**

SizeLength3.22 in [81.79 mm]Width/Diameter3 in [76.2 mm]Height3 in [76.2 mm]Weight1.839 lbs [834.16 g]Body Material and PlatingBlack Anodized Aluminum Heatsink

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Configuration Design				
Connectors				
Description	Connector 1	Connector 2		
Туре	SMA Female	SMA Female		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Outer Conductor Material and Plating		Stainless Steel, Passivated		
Coupling Nut Material and Plating	Stainless Steel, Passivated			
Coupling Nut Plating Specification	Stainless Steel			
Hex Size	11/16 ln.	11/16 In.		

Stainless Steel, Passivated

### **Environmental Specifications**

**Temperature** Operating Range

Body Material and Plating

-55 to +125 deg C

Compliance Certifications (see product page for current document)

### **Plotted and Other Data**

Notes:

### **Typical Performance Data**

30 dB Fixed Attenuator SMA Female (Jack) to SMA Female (Jack) Directional Up to 18 GHz Rated to 50 Watts, Heatsink Body, 1.6 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: 30 dB Fixed Attenuator SMA Female (Jack) to SMA Female (Jack) Directional Up to 18 GHz Rated to 50 Watts, Heatsink Body, 1.6 VSWR SA18SFSF50W-30

# URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-sma-female-sma-female-50-watts-sa18sfsf50w-30-p. aspx

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Stainless Steel, Passivated

### SA18SFSF50W-30 CAD Drawing

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