

# SA18SFSF50W-30 DATA SHEET

# 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

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 and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.



## **Features:**

- Design: Fixed, Directional Attenuator
- Connector 1: SMA FemaleConnector 2: SMA Female
- Body Material and Plating: Black Anodized Aluminum Heatsink

**Electrical Specifications** 

Description	Min	Тур	Max	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
Input Power, Peak	500	Watts

#### Specifications by Frequency

F1	F2	F3	F4	F5	Units
DC to 6	6 to 12.4	12.4 to 18			GHz
1.3:1	1.45:1	1.6:1			
0.75	1	1.5			dB
	DC to 6	DC to 6 6 to 12.4 1.3:1 1.45:1	DC to 6 6 to 12.4 12.4 to 18 1.3:1 1.45:1 1.6:1	DC to 6 6 to 12.4 12.4 to 18 1.3:1 1.45:1 1.6:1	DC to 6 6 to 12.4 12.4 to 18 1.3:1 1.45:1 1.6:1

## **Mechanical Specifications**

Size

 Length
 3.22 in [81.79 mm]

 Width/Diameter
 3 in [76.2 mm]

 Height
 3 in [76.2 mm]

 Weight
 1.839 lbs [834.16 q]

Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Fixed, Directional

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#### **Connectors**

Description	Connector 1	Connector 2
Туре	SMA Female	SMA Female
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Material & Plating		Stainless Steel, Passivated
Coupling Nut Material & Plating	Stainless Steel, Passivated	
Coupling Nut Plating Spec.	Stainless Steel	
Hex Size	16-Nov In.	16-Nov In.
Body Material & Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

### **Environmental Specifications**

Temperature

Operating Range -55 to 125 deg C

**Compliance Certifications** (see product page for current document)

#### **Plotted and Other Data**

Notes:

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.

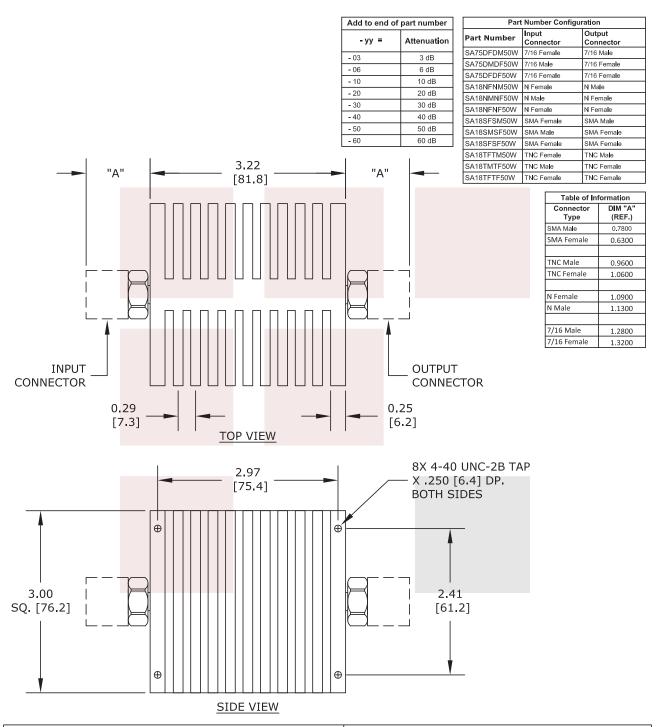
For additional information on this product, please click the following link: 30 dB Fixed Attenuator SMA Female (Jack) to SMA Female (Jack) Directional Up to 18 GHz Rated to 50 Watts, Heatsink Body, 1.6 VSWR SA18SFSF50W-30

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

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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	SA18XXXX50w-yy			cage code 3FKR5		
	CAD FILE 063014	SHEET	SCALE	N/A	SIZE A	2233