10 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR

# SA18S25W-10

#### Features

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 10±1 dB

#### Applications

#### Instrumentation

· Precision measurements

## 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 SA18S25W-10 is a 10 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 25 Watts. The versatile coaxial package uses SMA male to 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		10		dB
Attenuation Accuracy		1		dB
VSWR			1.35:1	
Input Power, CW			25	Watts
rated at +25°C, derated linearly to 2.5	W at +125°C			
Input Power, Peak			1	kWatts
5µs pulse, 2.5% duty cycle				

2.7 in [68.58 mm]

1.5 in [38.1 mm] 0 in [0 mm]

0.1852 lbs [84.01 g]

Black Anodized Aluminum Heatsink

Electrical Specification Notes: Values at +25°C, sea level.

## **Mechanical Specifications**

Size Length Width/Diameter Height Weight Body Material and Plating • Max Power 25 Watts (CW)

- VSWR < 1.35:1
- Prototyping and characterization
- Production systems



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<b>Configuration</b> Design	Fixed, Bidirectional	
Package Style	Connectorized Module	

## Connectors

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Female
Connector Specification	MIL-STD-348A	MIL-STD-348A
Contact Material and Plating	aterial and Plating Beryllium Copper, Gold Beryllium Copper, Gold	
Body Material and Plating	ly Material and Plating Passivated Stainless Steel Passivated Stainless Steel	

## **Environmental Specifications**

Temperature	
Operating Range	

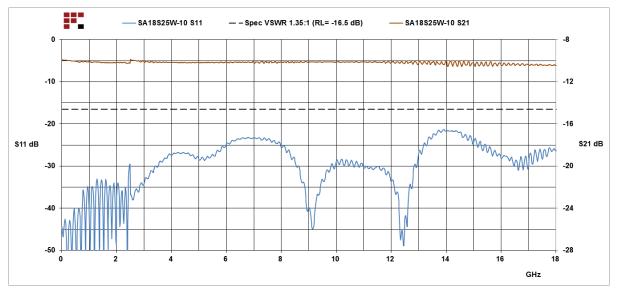
-55 to +125 deg C

Compliance Certifications (see product page for current document)

## **Plotted and Other Data**

Notes:

## Typical Performance Data



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10 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 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.

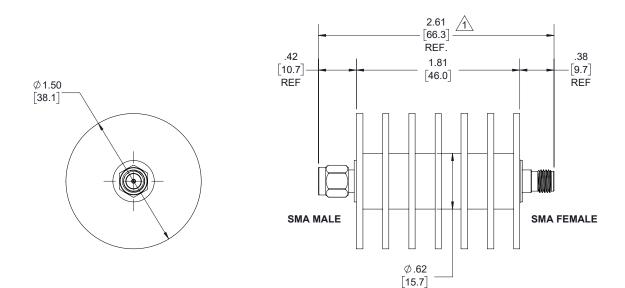
For additional information on this product, please click the following link: 10 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR SA18S25W-10

URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-sma-male-sma-female-25-watts-sa18s25w-10-p.aspx

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## SA18S25W-10 CAD Drawing

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