

# 2 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 10 Watts, Heatsink Body, 1.3 VSWR



# SA18S10W-02

#### **Features**

- DC to 18 GHz Frequency Range
- · Attenuation 2±0.5 dB

### **Applications**

- Instrumentation
- · Precision measurements

- Max Power 10 Watts (CW)
- VSWR < 1.3:1</li>
- · Prototyping and characterization
- Production systems

# **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 SA18S10W-02 is a 2 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 10 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		2		dB
Attenuation Accuracy		0.5		dB
VSWR			1.3:1	
Input Power, CW			10	Watts

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 6	6 to 18			GHz
VSWR, Max	1.15:1	1.2:1	1.3:1			

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

# **Mechanical Specifications**

Size

 Length
 1.86 in [47.24 mm]

 Width/Diameter
 0.62 in [15.75 mm]

 Height
 0 in [0 mm]

 Weight
 0.0525 lbs [23.81 g]



# 2 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 10 Watts, Heatsink Body, 1.3 VSWR



# SA18S10W-02

Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Fixed

Package Style Connectorized Module

#### **Connectors**

Description	Connector 1	Connector 2
Туре	SMA Male	SMA Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Contact Plating Specification	MIL-G-45204	MIL-G-45204
Torque	8 in-lbs 0.9 Nm	
Body 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:

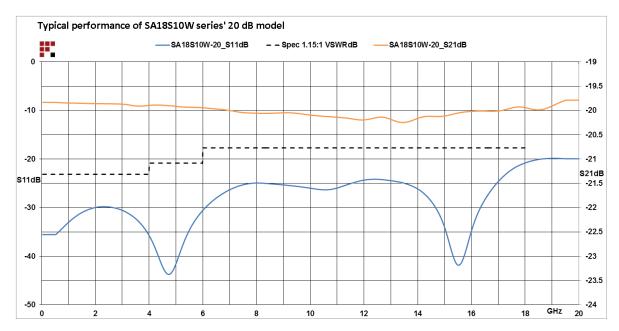


# 2 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 10 Watts, Heatsink Body, 1.3 VSWR



# SA18S10W-02

#### **Typical Performance Data**



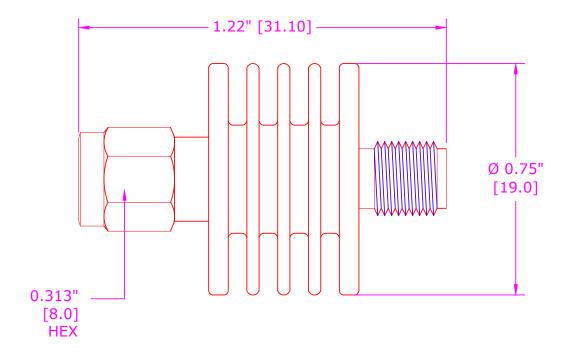
2 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 10 Watts, Heatsink Body, 1.3 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 2 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 18 GHz Rated to 10 Watts, Heatsink Body, 1.3 VSWR SA18S10W-02

URL: https://www.fairviewmicrowave.com/2db-fixed-attenuator-sma-male-sma-female-10-watts-sa18s10w-02-p.aspx

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

**SA18S10W-02 CAD Drawing**2 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to
18 GHz Rated to 10 Watts, Heatsink Body, 1.3 VSWR



FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES:  1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.  2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.  3. DIMENSIONS ARE IN INCHES [mm].					
TITLE	DWG NO SA18S5W-02			CAGE CODE 3FKR5		
	CAD FILE 092914	SHEET	SCALE N	I/A SIZ	'E A	150