

# 10 dB Fixed Attenuator SMP Male To SMP Female Up To 10 GHz Rated To 2 Watts With Passivated Stainless Steel Body

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 selections and ships them same day. The SA10P2W-10 is a 10 dB Fixed Attenuator that operates from DC to 10 GHz and is rated to 2 Watts. The versatile coaxial package uses SMP male to SMP female connectors and is also REACH and RoHS compliant.

### **Electrical Specifications**

Min	Тур	Max	Units
DC		10	GHz
	50		Ohms
	10		dB
		1.35:1	
		2	Watts
		DC 50	DC 10 50 10

Input Power, Peak 100 Watts for 25 µsec.

#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 2	2 to 5	5 to 10			GHz
VSWR, Max	1.15:1	1.25:1	1.35:1			
Atten Accuracy, Ty	p ±0.2	±0.3	±0.5			dB

Electrical Specification Notes:

Impedance deviation of ±0.25 Ohms

VSWR deviation of ±0.1 %

Power coefficient of 0.001 dB/W (change in attenuation with increase in power)

Temperature coefficient of 0.001 dB/°C max., 0.0003 dB/°C typ.

#### **Mechanical Specifications**

Size Length Width/Diameter Weight Body Material and Plating

0.81 in [20.57 mm] 0.28 in [7.11 mm] 0.006 lbs [2.72 g] Passivated Stainless Steel

# SA10P2W-10 DATA SHEET



#### Features:

- DC to 10 GHz Frequency Range
- Attenuation 10±0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

# **Applications:**

- Instrumentation
- · Precision measurements
- Prototyping and characterization
- Production systems

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Configuration

Design Fixed

Package Style Connectorized Module

#### **Connectors**

Description	Connector 1	Connector 2
Туре	SMP Male	SMP Female
Connection Method	Push-On	Standard
Polarity	Standard	Standard
Contact Material & Plating	Phosphor Bronze, Gol	ld Beryllium Copper, Gold
Contact Plating Spec.	4 μ-in min.	4 μ-in min.
Dielectric Type	Teflon	Teflon
Body Material & Plating	Passivated Stainless St	eel Beryllium Copper, Gold
Body Plating Spec.		4 μ-in min.

## **Environmental Specifications**

**Temperature** 

Operating Range -50 to +80 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

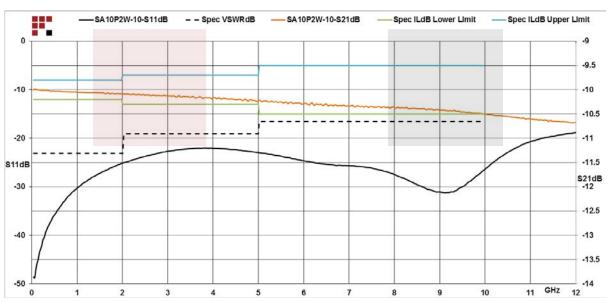
RoHS Compliant Yes

REACH Compliant 12/17/2015

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

Notes:

**Typical Performance Data** 







10 dB Fixed Attenuator SMP Male To SMP Female Up To 10 GHz Rated To 2 Watts With Passivated Stainless Steel Body 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 Allen, Texas. Fairview Microwave is RF on-demand.

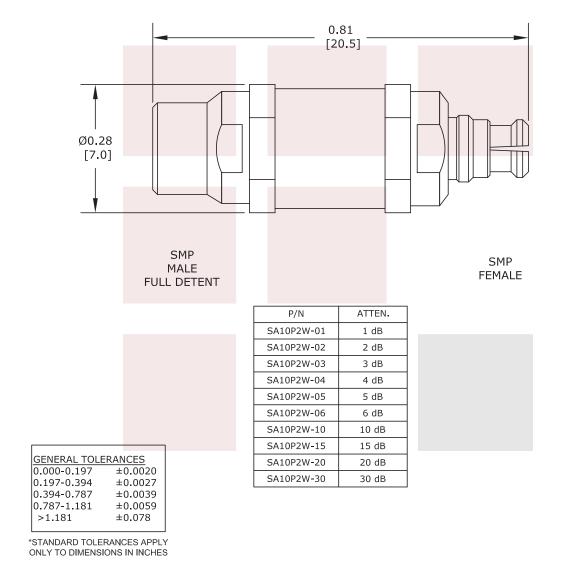
For additional information on this product, please click the following link: 10 dB Fixed Attenuator SMP Male To SMP Female Up To 10 GHz Rated To 2 Watts With Passivated Stainless Steel Body SA10P2W-10

URL: http://www.fairviewmicrowave.com/10db-fixed-attenuator-smp-male-smp-female-2-watts-sa10p2w-10-p.aspx









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]. FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM TITLE DWG NO CAGE CODE SA10P2W 3FKR5 10 dB Fixed Attenuator SMP Male To SMP Female Up To 10 GHz Rated To 2 Watts With Passivated Stainless Steel Body CAD FILE 032216 SHEET SCALE N/A SIZE A 3045