

# **3 dB Fixed Attenuator SMP Male Full Detent 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 varieties and ships them same day. The SA10P2W-03 is a 3 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.



SA10P2W-03

**DATA SHEET** 

# **Features:**

- DC to 10 GHz Frequency Range
- Attenuation 1±0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.40:1

# **Applications:**

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

## **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
VSWR			1.4:1	
Input Power, CW			2	Watts
Input Power, Peak for 25 µsec.			100	Watts

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	1.4:1			
Atten Accuracy, Ty	p ±0.2	±0.5	±1			dB

Electrical Specification Notes: Impedance deviation of  $\pm 0.25$  Ohms VSWR deviation of  $\pm 0.1$  % 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 Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 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	Full Detent		
Contact Material & Plating	Phosphor Bronze, Gold	Beryllium Copper, Gold	
Contact Plating Spec.	4 μ-in min.	4 µ-in min.	
Dielectric Type	Teflon	Teflon	
Body Material & Plating	Passivated Stainless Steel	Beryllium Copper, Gold	
Body Plating Spec.		4 µ-in min.	

### **Environmental Specifications**

Temperature Operating Range

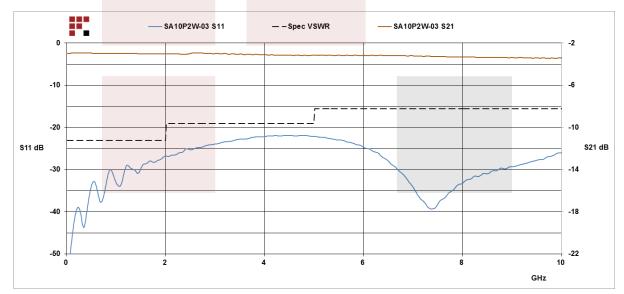
-50 to +80 deg C

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

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

Notes:

Typical Performance Data



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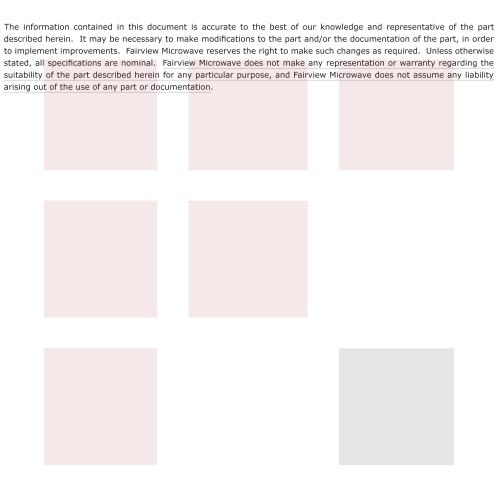




3 dB Fixed Attenuator SMP Male Full Detent to SMP Female Up to 10 GHz Rated to 2 Watts with Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 3 dB Fixed Attenuator SMP Male Full Detent to SMP Female Up to 10 GHz Rated to 2 Watts with Passivated Stainless Steel Body SA10P2W-03

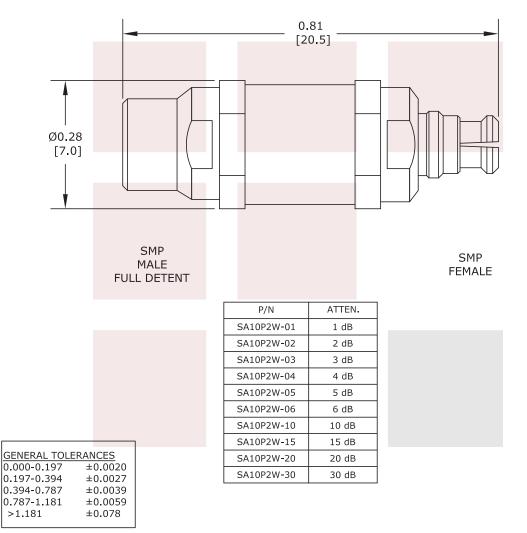
URL: https://www.fairviewmicrowave.com/3db-fixed-attenuator-smp-male-smp-female-2-watts-sa10p2w-03-p.aspx



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\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].					
3 dB Fixed Attenuator SMP Male Full Detent to SMP Female Up to 10 GHz Rated to 2 Watts with Passivated Stainless Steel Body	DWG NO SA10P2W			CAGE CODE 3FKR5		
	CAD FILE 032216	SHEET	SCALE	N/A	SIZE A	3045

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