

15 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to 10 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 VSWR



SA10P2W-15

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

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 SA10P2W-15 is a 15 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.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		10	GHz
Impedance		50		Ohms
Nominal Attenuation		15		dB
VSWR			1.4:1	
Input Power, CW			2	Watts
Input Power, Peak for 25 µsec.			100	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 5	5 to 10			GHz
VSWR, Max	1.15:1	1.25:1	1.4:1			
Attenuation Accuracy, Typ	0.2	0.5	1			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 0.81 in [20.57 mm]

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Width/Diameter	0.28 in [7.11 mm]
Height	0 in [0 mm]
Weight	0.0075 lbs [3.4 g]
Body Material and Plating	Passivated Stainless Steel

Configuration

Design	Fixed
Package Style	Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	SMP Male	SMP Female
Contact Material and Plating	Phosphor Bronze, Gold	Beryllium Copper, Gold
Contact Plating Specification	4 μ-in min.	4 μ-in min.
Dielectric Type	Teflon	Teflon
Body Material and Plating	Passivated Stainless Steel	Beryllium Copper, Gold
Body Plating Specification		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

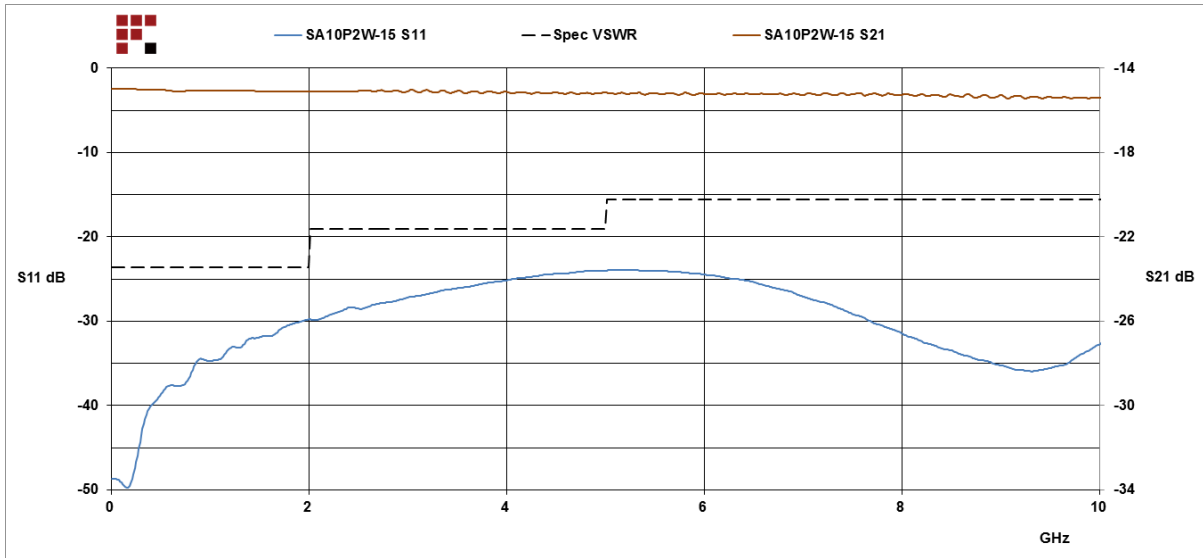
Notes:

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Typical Performance Data



15 dB Fixed Attenuator SMP Male (Plug) to SMP Female (Jack) Up to 10 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 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: [15 dB Fixed Attenuator SMP Male \(Plug\) to SMP Female \(Jack\) Up to 10 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.4 VSWR SA10P2W-15](https://www.fairviewmicrowave.com/15db-fixed-attenuator-smp-male-smp-female-2-watts-sa10p2w-15)

URL: <https://www.fairviewmicrowave.com/15db-fixed-attenuator-smp-male-smp-female-2-watts-sa10p2w-15-p.aspx>

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