3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 3 GHz Rated to 5 Watts, Brass Body, 1.25 VSWR

SA3S5W-03

Features

- Bidirectional
- DC to 3 GHz Frequency Range
- Attenuation 6±0.4 dB
- Max Power 5 Watts (CW)
- VSWR < 1.25:1

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 SA3S5W-03 is a 3 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 5 Watts. The versatile coaxial package uses SMA male to SMA female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy			±0.4	dB
VSWR			1.25:1	
Input Power, CW			5	Watts
derated linearly to .5W @125°C				
Input Power, Peak			500	Watts
5µs pulse, 1% duty cycle				

Mechanical Specifications

Size

Length	2.76 in [70.1 mm]
Width/Diameter	0.708 in [17.98 mm]
Height	0 in [0 mm]
Weight	0.1135 lbs [51.48 g]
Body Material and Plating	Brass

Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material and Plating	Beryllium Copper	Beryllium Copper
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Coupling Nut Material and Plating	Brass, Nickel	
Hex Size	5/16 inch	
Torque	5 in-lbs 0.57 Nm	
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

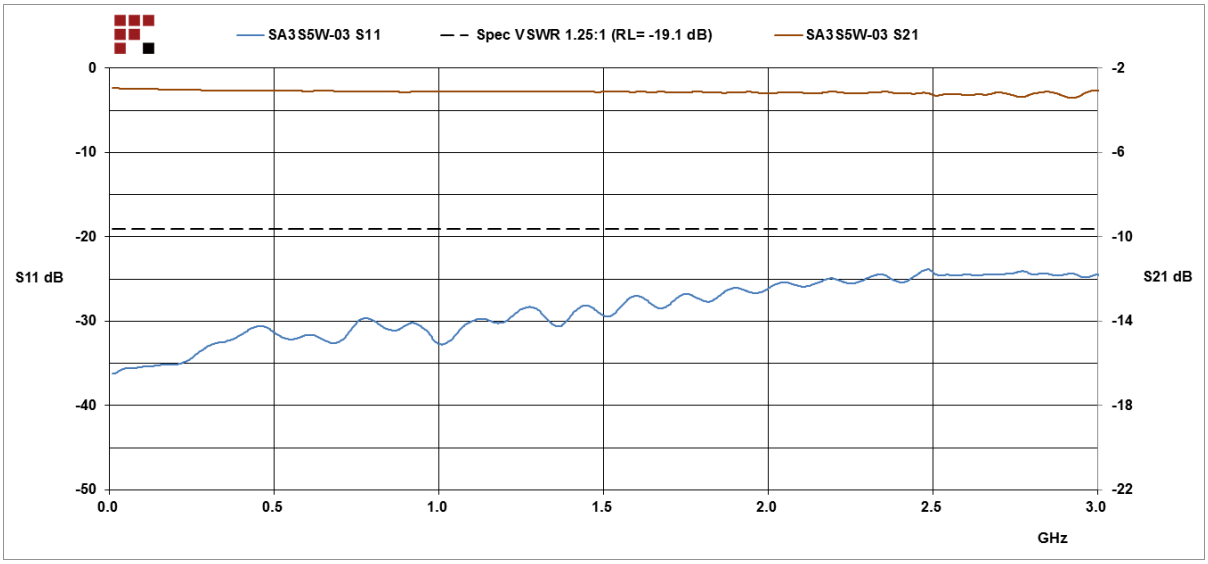
Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 3 GHz Rated to 5 Watts, Brass Body, 1.25 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: 3 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 3 GHz Rated to 5 Watts, Brass Body, 1.25 VSWR SA3S5W-03

URL: https://www.fairviewmicrowave.com/3db-fixed-attenuator-sma-male-sma-female-5-watts-sa3s5w-03-p.aspx

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SA3S5W-03 CAD Drawing

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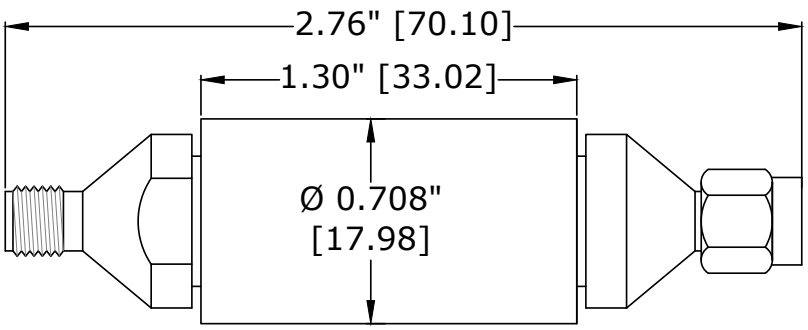

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].				
TITLE	DWG NO SA3S5W-03		CAGE CODE 3FKR5		
	CAD FILE 020916	SHEET	SCALE N/A	SIZE A	5568

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