

30 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 3 GHz Rated to 5 Watts, Aluminum Body, 1.2 VSWR



SA3S5W-30

Features

- Bidirectional
- DC to 3 GHz Frequency Range
- Attenuation 30±0.7 dB
- Max Power 5 Watts (CW)
- VSWR < 1.20:1

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-30 is a 30 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		30		dB
Attenuation Accuracy			±0.7	dB
VSWR			1.2:1	
Input Power, CW			5	Watts
derated linearly to .5W @125°C				
Input Power, Peak			500	Watts
5µs pulse, 1% duty cycle				

Electrical Specification Notes:

Passive intermodulation specified at 910MHz with two input signals at 935MHz and 960MHz with average carrier power levels of +33dBm each.

Mechanical Specifications

Size

Length	2.76 in [70.1 mm]
Width/Diameter	0.71 in [18.03 mm]
Height	0 in [0 mm]
Weight	0.11 lbs [49.9 g]
Body Material and Plating	Aluminum

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Configuration		
Design	Fixed, Bidirectional	
Package Style	Connectorized	

Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
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

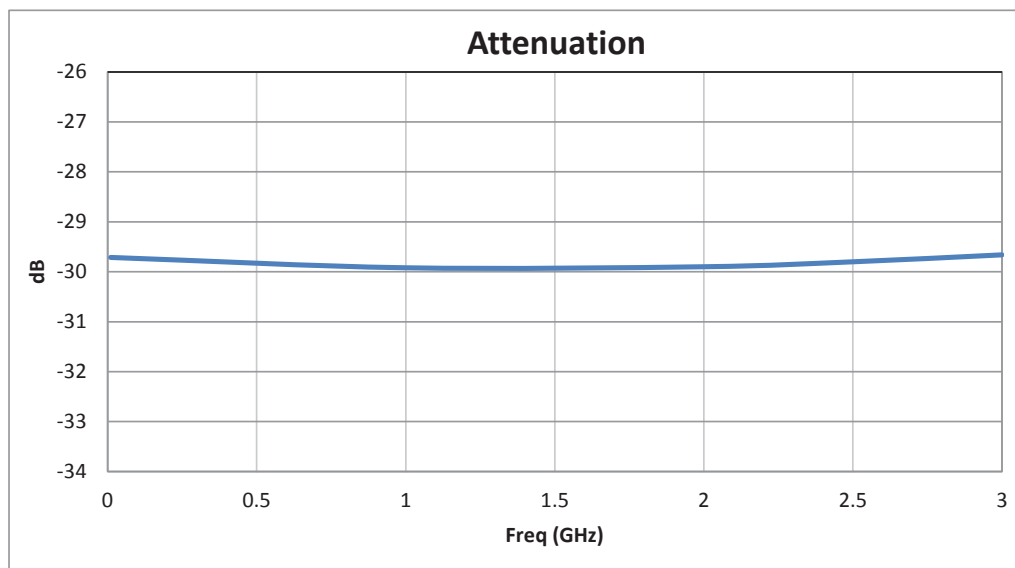
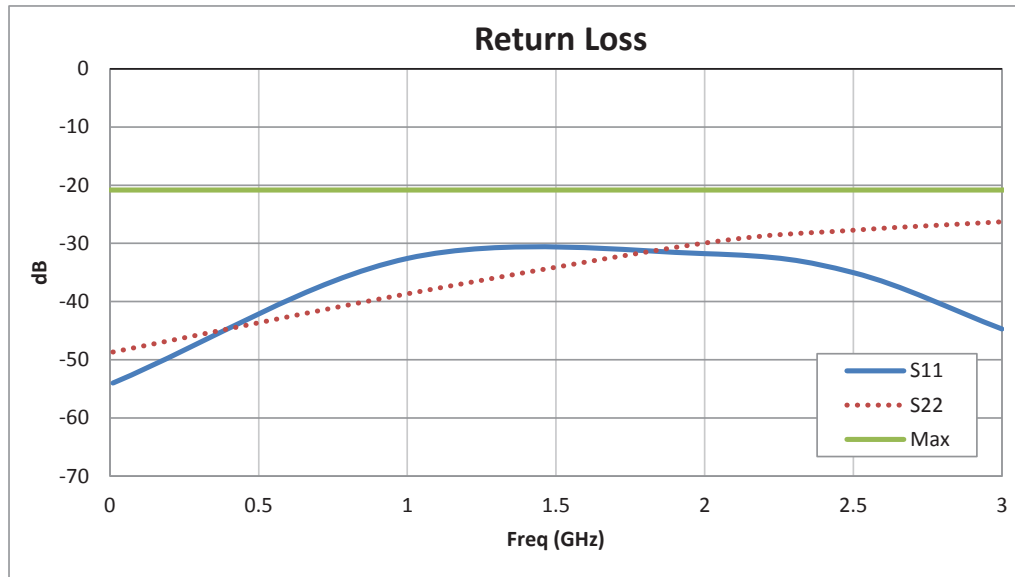
Notes:

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Typical Performance Data



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30 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 3 GHz Rated to 5 Watts, Aluminum Body, 1.2 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.

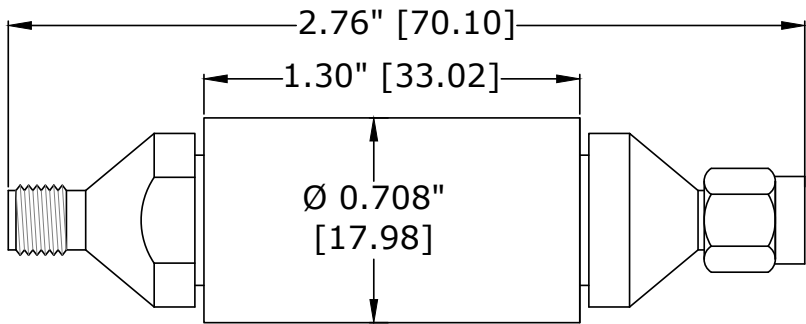
For additional information on this product, please click the following link: [30 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) Up to 3 GHz Rated to 5 Watts, Aluminum Body, 1.2 VSWR SA3S5W-30](https://www.fairviewmicrowave.com/30db-fixed-attenuator-sma-male-sma-female-5-watts-sa3s5w-30-p.aspx)

URL: <https://www.fairviewmicrowave.com/30db-fixed-attenuator-sma-male-sma-female-5-watts-sa3s5w-30-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 implement 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.

SA3S5W-30 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		CAGE CODE		
	SA3S5W-30		3FKR5		
	CAD FILE	020916	SHEET	SCALE	N/A
				SIZE	A
					5568