

## 1 dB Fixed Attenuator SMA Male (Plug) To SMA Female (Jack) Up To 6 GHz Rated To 2 Watts, Passivated Stainless Steel Body, 1.35 VSWR



### SA6H-01

#### Features

- DC to 6 GHz Frequency Range
- Attenuation 1±0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

#### 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 SA6H-01 is a 1 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors.

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy			±0.5	dB
VSWR			1.35:1	
Input Power, CW			2	Watts
derated linearly to 0.2W at +125°C				
Input Power, Peak			200	Watts
5µs pulse, 0.01% duty cycle				

#### Mechanical Specifications

##### Size

Length	0.86 in [21.84 mm]
Width/Diameter	0.312 in [7.92 mm]
Height	0 in [0 mm]
Weight	0.0152 lbs [6.89 g]
Body Material and Plating	Passivated Stainless Steel

##### Configuration

Design	Fixed
Package Style	Connectorized Module

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Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon
Hex Size	5/16 inch	5/16 inch
Torque	8 in-lbs 0.9 Nm	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

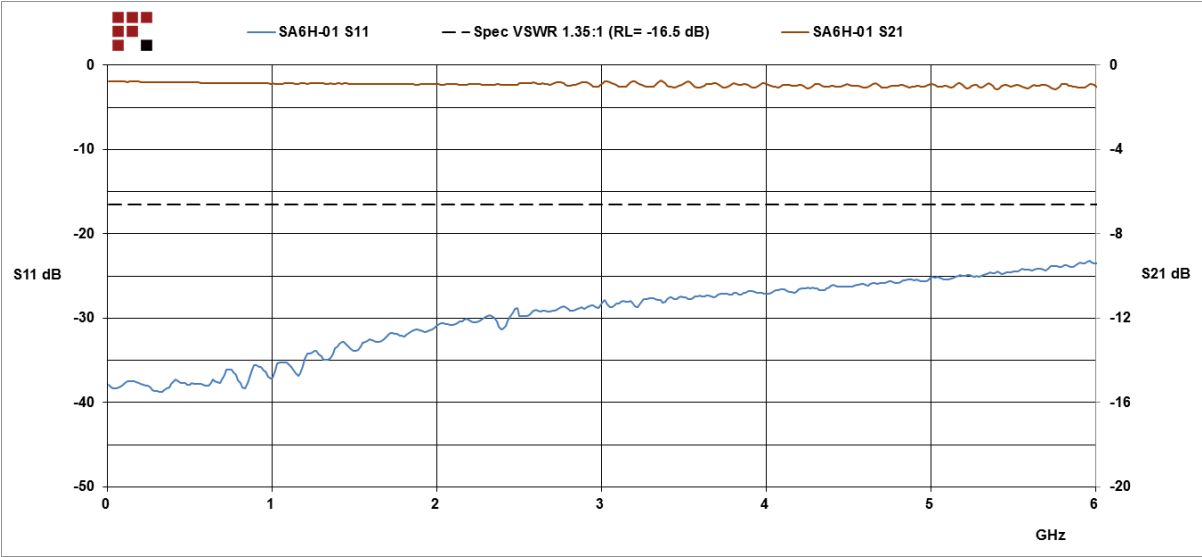
Temperature  
Operating Range -65 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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1 dB Fixed Attenuator SMA Male (Plug) To SMA Female (Jack) Up To 6 GHz Rated To 2 Watts, Passivated Stainless Steel Body, 1.35 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.

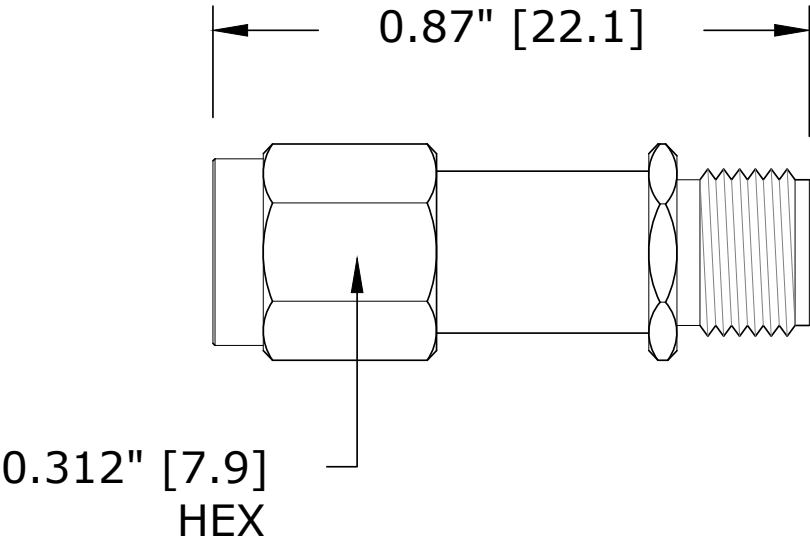
For additional information on this product, please click the following link: [1 dB Fixed Attenuator SMA Male \(Plug\) To SMA Female \(Jack\) Up To 6 GHz Rated To 2 Watts, Passivated Stainless Steel Body, 1.35 VSWR SA6H-01](https://www.fairviewmicrowave.com/1db-fixed-attenuator-sma-male-sma-female-2-watts-sa6h-01-p.aspx)

URL: <https://www.fairviewmicrowave.com/1db-fixed-attenuator-sma-male-sma-female-2-watts-sa6h-01-p.aspx>

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SA6H-01 CAD Drawing

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TITLE	DWG NO		CAGE CODE		
	SA6H-01		3FKR5		
CAD FILE		031115	SHEET	SCALE	N/A
				SIZE	A
					5568