

SA18H-11 DATA SHEET

11 dB Fixed Attenuator SMA Male to SMA Female Up to 18 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 SA18H-11 is an 11 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		11		dB
Attenuation Accuracy		±0.5		dB
VSWR			1.35:1	
Input Power, CW			2	Watts
derated linearly to 0.2	W at +125°C			

Input Power, Peak 500 Watts 5µs pulse, 0.05% duty cycle

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 6	6 to 12.4	12.4 to 18			GHz
VSWR, Max	1.15:1	1.25:1	1.35:1			

Mechanical Specifications

Size
Length 0.86 in [21.84 mm]
Width/Diameter 0.312 in [7.92 mm]
Weight 0.0145 lbs [6.58 g]
Body Material and Plating Passivated Stainless Steel

Configuration

Design Fixed

Package Style Connectorized Module



Features:

- DC to 18 GHz Frequency Range
- · Attenuation 11±1 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

Applications:

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

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





Connectors

Description	Connector 1	Connector 2			
Туре	SMA Male	SMA Female			
Connector Spec.	MIL-STD-348	MIL-STD-348			
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold			
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel			

Mechanical Specification Notes:

Connector interface in accordance with MIL-STD-348 and MIL-PRF-39012.

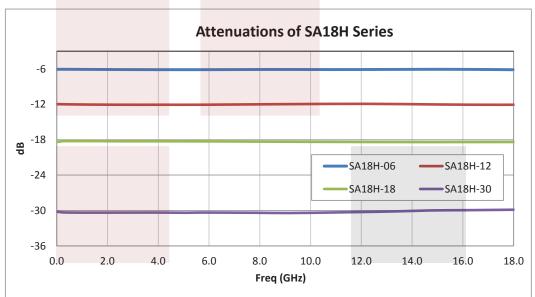
Connector interface in accordance with MIL-STD-348 and MIL-PRF-39012.	
Environmental Specifications Temperature Operating Range -54 to +125 deg C	
Compliance Certifications (see product page for current document)	
Plotted and Other Data Notes:	





Typical Performance Data









11 dB Fixed Attenuator SMA Male to SMA Female Up to 18 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: 11 dB Fixed Attenuator SMA Male to SMA Female Up to 18 GHz Rated to 2 Watts with Passivated Stainless Steel Body SA18H-11

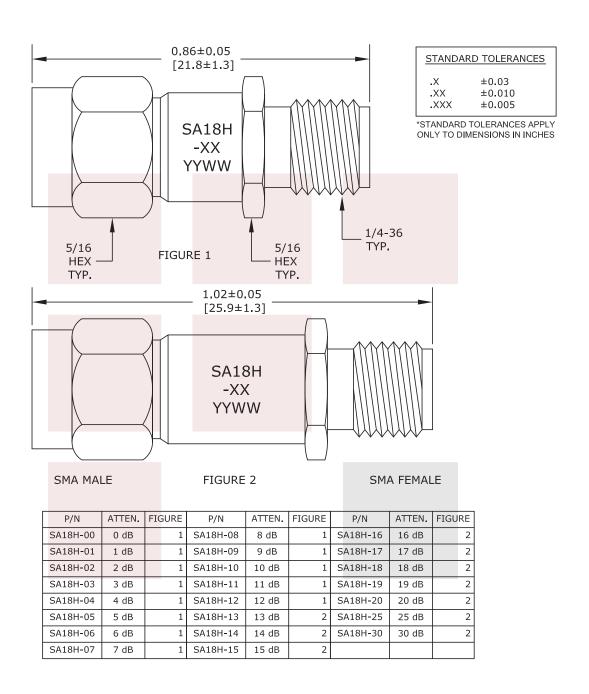
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order

URL: https://www.fairviewmicrowave.com/11db-fixed-attenuator-sma-male-sma-female-2-watts-sa18h-11-p.aspx

to implem	nent improv	ements.	Fairview	/ Microw	ave reserv	es the rigl	nt to ma	ke such	changes	as requ	uired. U	nless c	therwise
	l specification												
suitability	of the part	describ	ed hereir	for any	particular	purpose,	and Fai	rview N	1icrowave	does r	not assu	me an	/ liability
arising ou	it of the use	of any	part or do	ocument	ation.								







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].						
11 dB Fixed Attenuator SMA Male to SMA Female Up	DWG NO SA18H			CAGE CODE 3FKR5			
to 18 GHz Rated to 2 Watts with Passivated Stainless Steel Body	CAD FILE 031516	SHEET	SCALE	N/A	SIZE A	3045	