

18 dB Fixed Attenuator SMA Male (Plug) to SMA Female (Jack) Up to 6 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.3 VSWR



SA6HA-18

Features

- DC to 6 GHz Frequency Range
- Attenuation 18dB Typical
- Max Power 2 Watts (CW)
- VSWR < 1.30:1

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 SA6HA-18 is an 18 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		18		dB
Attenuation Accuracy			±0.5	dB
VSWR			1.3:1	
Input Power, CW			2	Watts
derated linearly to 0.2W at +125°C				
Input Power, Peak			200	Watts
5µs pulse, 0.01% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2.5	2.5 to 6				GHz
VSWR, Max	1.15:1	1.3:1				

Mechanical Specifications

Size

Length	1.03 in [26.16 mm]
Width/Diameter	0.312 in [7.92 mm]
Height	0 in [0 mm]
Weight	0.015 lbs [6.8 g]

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Body Material and Plating	Passivated Stainless Steel
Configuration	
Design	Fixed
Package Style	Connectorized Module

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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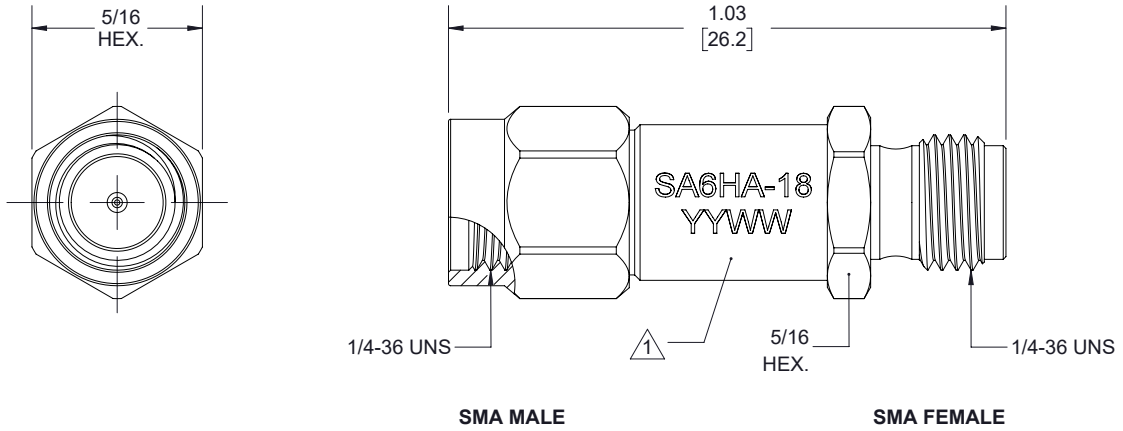
For additional information on this product, please click the following link: [18 dB Fixed Attenuator SMA Male \(Plug\) to SMA Female \(Jack\) Up to 6 GHz Rated to 2 Watts, Passivated Stainless Steel Body, 1.3 VSWR SA6HA-18](#)

URL: <https://www.fairviewmicrowave.com/18db-fixed-attenuator-sma-male-sma-female-2-watts-sa6ha-18-p.aspx>

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SA6HA-18 CAD Drawing

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES:

- MARKING TO BE AS LARGE AS POSSIBLE, CLEAR AND READABLE. YYWW EQUALS DATE CODE.

	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].								
	DWG NO SA6HA-18	CAGE CODE 3FKR5							
TITLE	CAD FILE	01/02/19	SHEET	1 OF 1	SCALE	N/A	SIZE	A	7361