

SA18H-06 DATA SHEET

6 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-06 is a 6 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		6		dB	
Attenuation Accuracy		±0.3		dB	
VSWR			1.35:1		
Input Power, CW			2	Watts	
derated linearly to 0.2W 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 Width/Diameter Weight

0.0141 lbs [6.4 g]

0.86 in [21.84 mm]

0.312 in [7.92 mm]

Body Material and Plating

Passivated Stainless Steel

Configuration

Design Fixed

Package Style Connectorized Module



Features:

- DC to 18 GHz Frequency Range
- Attenuation 6±0.5 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

Applications:

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

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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:

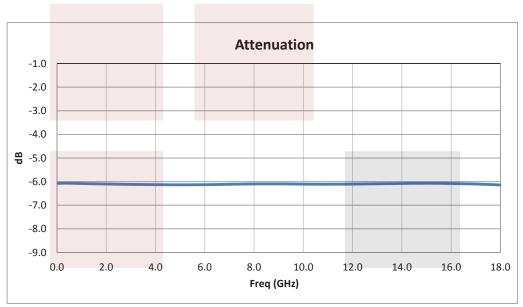
Connector interface in a	accordance with MI	L-STD-348 and MIL-PRF-	39012.
Environmental Specific Temperature Operating Range		4 to +125 deg C	
Compliance Certificati	ons (see product p	page for current documer	nt)
Plotted and Other Dat Notes:	a		





Typical Performance Data









6 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.

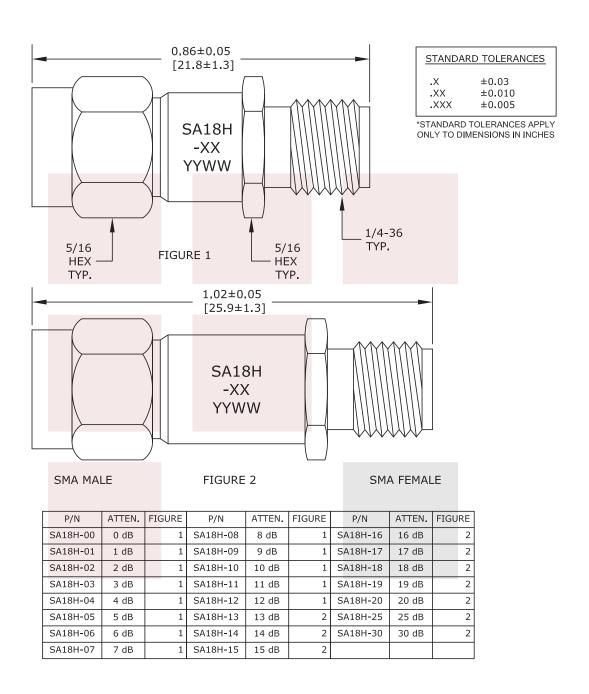
For additional information on this product, please click the following link: 6 dB Fixed Attenuator SMA Male to SMA Female Up to 18 GHz Rated to 2 Watts with Passivated Stainless Steel Body SA18H-06

URL: https://www.fairviewmicrowave.com/6db-fixed-attenuator-sma-male-sma-female-2-watts-sa18h-06-p.aspx









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