

# **10 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-10 is a 10 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.

# DATA SHEET

**SA18H-10** 



# Features:

- DC to 18 GHz Frequency Range
- Attenuation 10±1 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1</li>

# **Applications:**

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

# **Electrical Specifications**

Description	Min	Тур	Мах	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		10		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			500	Watts
5µs pulse, 0.05% du	ty cycle			matts
Specifications by Fr	equency			
	requency 1 F2	F3	F4 F	5 Units

1.35:1

## **Mechanical Specifications**

1.15:1

1.25:1

Size Length Width/Diameter Weight Body Material and Plating

#### Configuration

VSWR, Max

Design Package Style 0.86 in [21.84 mm] 0.312 in [7.92 mm] 0.0145 lbs [6.58 g] Passivated Stainless Steel

Fixed Connectorized Module 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 Fairview Microwave

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#### Connectors

Connector 1	Connector 2		
SMA Male	SMA Female		
MIL-STD-348	MIL-STD-348		
Beryllium Copper, Gold	Beryllium Copper, Gold		
Passivated Stainless Steel	Passivated Stainless Steel		
	SMA Male MIL-STD-348 Beryllium Copper, Gold		

#### Mechanical Specification Notes:

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

## **Environmental Specifications**

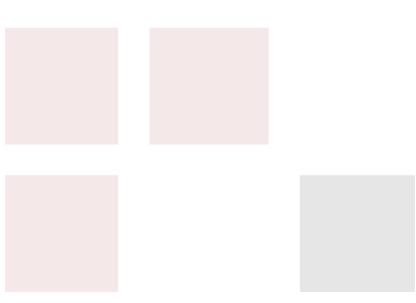
**Temperature** Operating Range

-54 to +125 deg C

**Compliance Certifications** (see product page for current document)

# **Plotted and Other Data**

Notes:

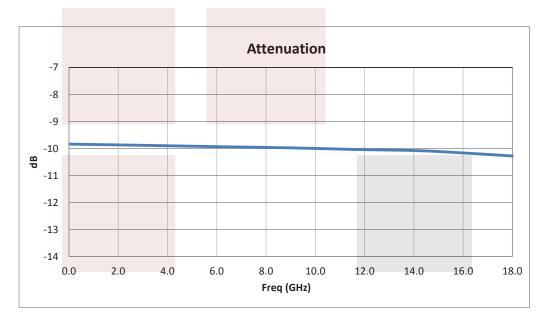






#### **Typical Performance Data**





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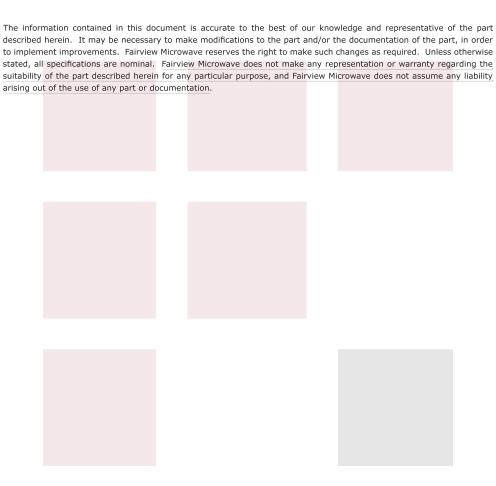
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10 dB Fixed Attenuator SMA Male to SMA Female Up to 18 GHz Rated to 2 Watts with Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our 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: 10 dB Fixed Attenuator SMA Male to SMA Female Up to 18 GHz Rated to 2 Watts with Passivated Stainless Steel Body SA18H-10

URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-sma-male-sma-female-2-watts-sa18h-10-p.aspx



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2

2

APPLY

FAIRVIEW MICROWAVE INC.	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].						
10 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	N/A	SIZE A	3045	

13 dB

14 dB

15 dB

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SA18H-05

SA18H-06

SA18H-07

5 dB

6 dB

7 dB

1

1

1

SA18H-13

SA18H-14

SA18H-15

SA18H-25

SA18H-30

25 dB

30 dB

2

2

2