

16 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-16 is a 16 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-16



Features:

- DC to 18 GHz Frequency Range
- Attenuation 16±1 dB
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

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		16			dB	
Attenuation Accuracy		±0.5		dB		
VSWR			1			
Input Power, CW				2	Watts	
derated linearly to 0.2	2W at +125°C					
Input Power, Peak				500	Watts	
5µs pulse, 0.05% dut	y cycle					
					_	
Specifications by Fre	equency					
Description F1	F2	F3	F4	F5	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 1.02 in [25.91 mm] 0.312 in [7.92 mm] 0.0163 lbs [7.39 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

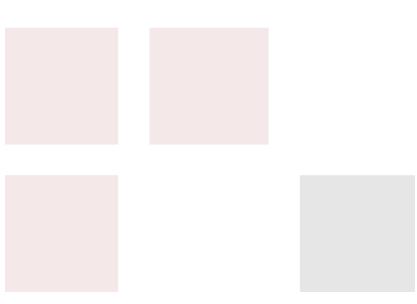
Temperature Operating Range

-54 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

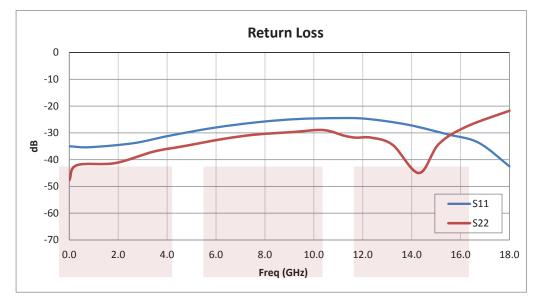
Notes:

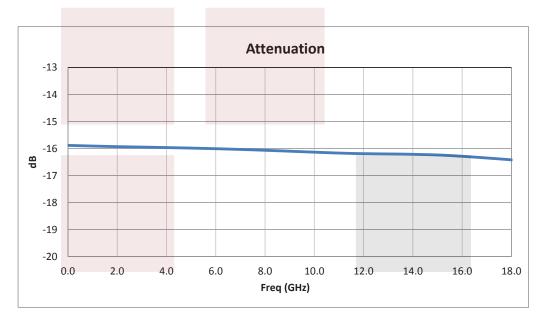






Typical Performance Data





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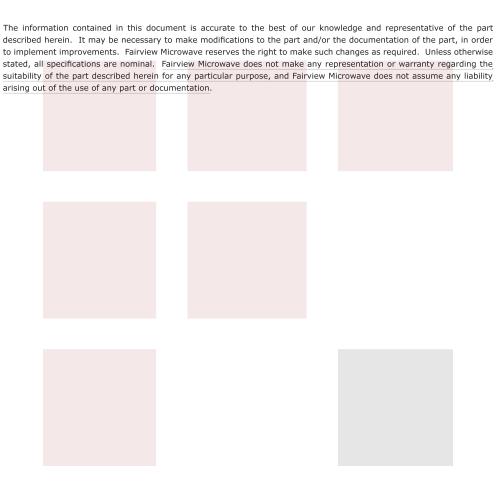
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16 dB Fixed Attenuator SMA Male to SMA Female Up to 18 GHz Rated to 2 Watts with Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our 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: 16 dB Fixed Attenuator SMA Male to SMA Female Up to 18 GHz Rated to 2 Watts with Passivated Stainless Steel Body SA18H-16

URL: https://www.fairviewmicrowave.com/16db-fixed-attenuator-sma-male-sma-female-2-watts-sa18h-16-p.aspx



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	5/16 HEX - TYP.		F	[2:	66±0.05 1.8±1.3] - 5A18H -XX YWW RE 1 1.02±0. [25.9±3 SA18 -XX YWW FIGURE	3H W	X	1/4- TYP.	*st, 0NI	X XX XXX ANDARD T Y TO DIM	D TOLERANCES ±0.03 ±0.010 ±0.005 TOLERANCES APPLY TOLERANCES
[P/N	ATTEN.	FIG	GURE	P/N	ATTEN.	FIGURE	P/N	ATTEN.	FIGURE]
	SA18H-00	0 dB		1	SA18H-08	8 dB	1	SA18H-16	16 dB	2]
	SA18H-01	1 dB		1	SA18H-09	9 dB	1	SA18H-17	17 dB	2	1
	SA18H-02	2 dB		1	SA18H-10	10 dB	1	SA18H-18	18 dB	2	1
	SA18H-03	3 dB	_	1	SA18H-11	11 dB	1	SA18H-19	19 dB	2	1
	SA18H-04	4 dB		1	SA18H-12	12 dB	1	SA18H-20	20 dB	2	1
	SA18H-05	5 dB		1	SA18H-13	13 dB	2	SA18H-25	25 dB	2	-
	5, 1011 05	5 40		-	5, 1011 15	15 00	<u> </u>	5/(1011 25	25 00		4

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].						
16 dB Fixed Attenuator SMA Male to SMA Female Up	DWG NO	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		

14 dB

15 dB

1 SA18H-14

SA18H-15

1

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SA18H-06

SA18H-07

6 dB

7 dB

SA18H-30

30 dB

2

2

2