

2 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 0.5 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 selections and ships them same day. The SA4012-02 is a 2 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 0.5 Watt. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Min	Тур	Гур Мах		
Frequency Range	DC		40	GHz	
Impedance		50		Ohms	
Nominal Attenuation		2		dB	
VSWR			1.5:1		
Input Power, CW			0.5	Watts	
derated linearly to 0.0	5W at +125°C				

derated linearly to 0.05W at +125°C

Specifications by Frequency

Description	F1		F2	F3	F4	F5	Units
Range	DC to	18	18 to 26.5	26.5 to 40			GHz
VSWR, Max	1.3:	1	1.5:1	1.5:1			
Atten Accuracy, Ty	p ±0.	5	±0.6	±1			dB

Mechanical Specifications

Size Length Width/Diameter Weiaht Body Material and Plating

Configuration

Design Package Style 0.87 in [22.1 mm] 0.315 in [8 mm] 0.012 lbs [5.44 g] Passivated Stainless Steel

Fixed Connectorized Module

SA4012-02 DATA SHEET



Features:

- DC to 40 GHz Frequency Range
- Attenuation 2±1 dB
- Max Power 0.5 Watt (CW)
- VSWR < 1.5:1

Applications:

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





Connectors

Connector 1	Connector 2			
2.92mm Male	2.92mm Female			
Beryllium Copper, Gold	Beryllium Copper, Gold			
MIL-PRF-39012	MIL-PRF-39012			
5/16 inch				
Passivated Stainless Steel	Passivated Stainless Steel			
	2.92mm Male Beryllium Copper, Gold MIL-PRF-39012 5/16 inch			

Mechanical Specification Notes:

The connectors use high temperature plastic bead dielectric.

Environmental Specifications

Temperature Operating Range

-55 to +125 deg C

Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes
REACH Compliant	12/17/2015

Plotted and Other Data

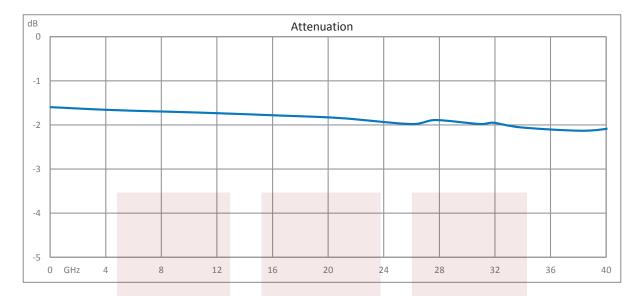
Notes:

Typical Performance Data









2 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 0.5 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.

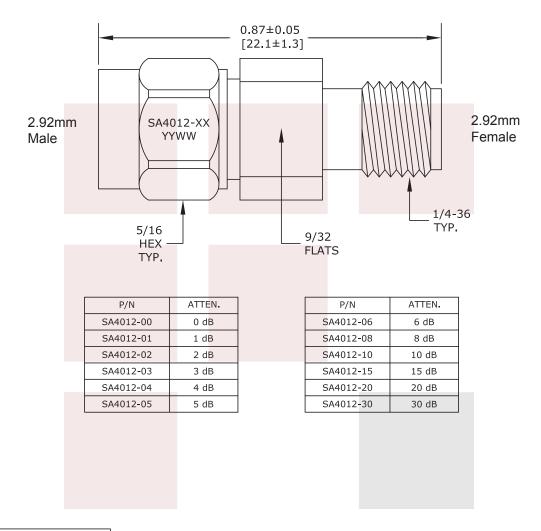
For additional information on this product, please click the following link: 2 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 0.5 Watts With Passivated Stainless Steel Body SA4012-02

URL: https://www.fairviewmicrowave.com/2db-fixed-attenuator-2.92mm-male-2.92mm-female-0.5-watts-sa4012-02-p.

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	<u>STANDA</u>	RD TOLERANCES
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	.xxx	± 0.005
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*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].					
2 dB Fixed Attenuator 2.92mm Male To 2.92mm Female Up To 40 GHz Rated To 0.5 Watts With Passivated Stainless Steel Body	DWG NO SA4012			CAGE CODE 3FKR5		
	CAD FILE 031716	SHEET	SCAL	E N/A	SIZE A	3045

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