

20 dB Fixed Attenuator 75 Ohm F Male (Plug) to 75 Ohm F Female (Jack) Up to 3 GHz Rated to 0.25 Watts, Brass Tri-Metal Body, 1.3 VSWR



SA4F75A-20

Features

- DC to 3 GHz Frequency Range
- Attenuation 20±3 dB
- Max Power 0.25 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 SA4F75A-20 is a 20 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 0.25 Watts. The versatile coaxial package uses type F male to type F female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		75		Ohms
Nominal Attenuation		20		dB
VSWR			1.3:1	
Input Power, CW			0.25	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 3				GHz
Attenuation Accuracy, Typ	0.5	3				dB

Mechanical Specifications

Size

Length	2.02 in [51.31 mm]
Width/Diameter	0.43 in [10.92 mm]
Height	0 in [0 mm]
Weight	0.0656 lbs [29.76 g]
Body Material and Plating	Brass, Tri-Metal

Configuration

Design	Fixed
Package Style	Connectorized Module

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Connectors

Description	Connector 1	Connector 2
Type	F Male	F Female
Contact Material and Plating	Brass, Gold	Phosphor Bronze, Gold
Contact Plating Specification	4 µin minimum	4 µin minimum
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal
Body Plating Specification	4 µin minimum	4 µin minimum

Environmental Specifications

Temperature	
Operating Range	-55 to +80 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

20 dB Fixed Attenuator 75 Ohm F Male (Plug) to 75 Ohm F Female (Jack) Up to 3 GHz Rated to 0.25 Watts, Brass Tri-Metal Body, 1.3 VSWR 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

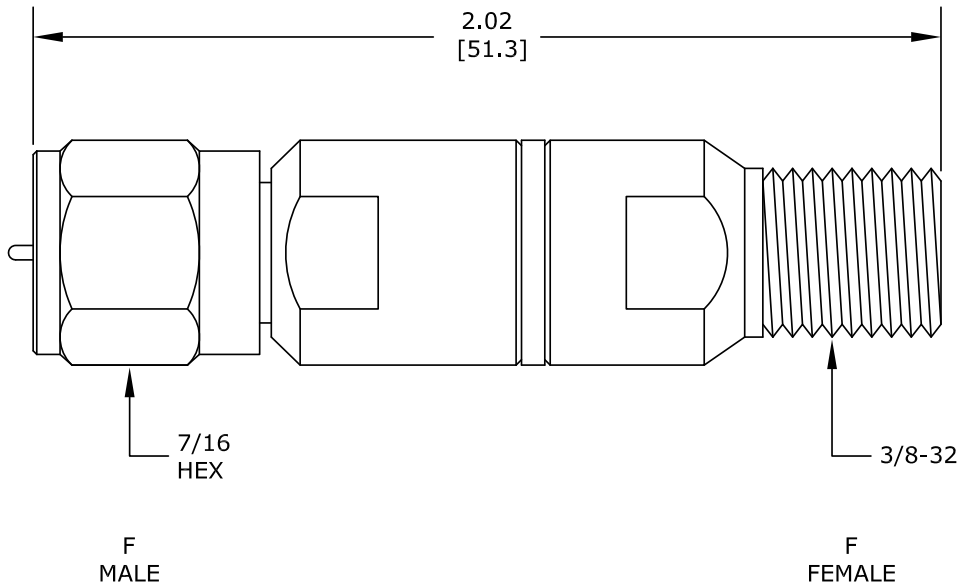
For additional information on this product, please click the following link: [20 dB Fixed Attenuator 75 Ohm F Male \(Plug\) to 75 Ohm F Female \(Jack\) Up to 3 GHz Rated to 0.25 Watts, Brass Tri-Metal Body, 1.3 VSWR SA4F75A-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-f-male-f-female-0.25-watts-sa4f75a-20-p.aspx>

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SA4F75A-20 CAD Drawing

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GENERAL TOLERANCES	
0-5 =	±0.05
5-10 =	±0.07
10-20 =	±0.10
20-30 =	±0.15
30- =	±0.20

*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].			
TITLE	DWG NO SA4F75A		CAGE CODE 3FKR5		
	CAD FILE 040517	SHEET	SCALE N/A	SIZE A	2233