

20 dB Fixed Attenuator 7/16 Male (Plug) to
7/16 Female (Jack) Up to 4 GHz Rated to
25 Watts, Brass Nickel Body, 1.25 VSWR



SA4D251-20

Features

Applications

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 SA4D251-20 is a 20 dB Fixed Attenuator that operates from DC to 4 GHz and is rated to 25 Watts. The versatile coaxial package uses 7/16 DIN male to 7/16 DIN female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.25:1	
Input Power, CW			25	Watts
Input Power, Peak			1	kWatts

Mechanical Specifications

Size

Length	4.91 in [124.71 mm]
Width/Diameter	1.75 in [44.45 mm]
Height	0 in [0 mm]
Weight	0.79984 lbs [362.8 g]
Body Material and Plating	Brass, Nickel

Configuration

Design	Fixed
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Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Silver
Body Material and Plating	Brass, Nickel	Brass, Nickel

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Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data

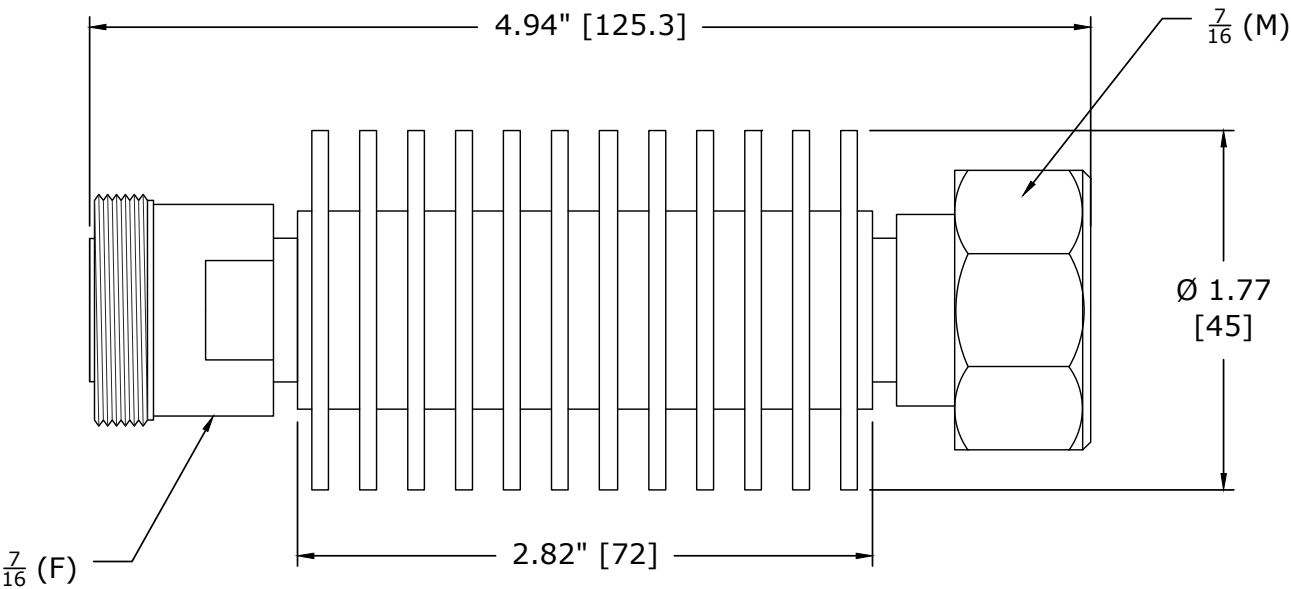
20 dB Fixed Attenuator 7/16 Male (Plug) to 7/16 Female (Jack) Up to 4 GHz Rated to 25 Watts, Brass Nickel Body, 1.25 VSWR from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [20 dB Fixed Attenuator 7/16 Male \(Plug\) to 7/16 Female \(Jack\) Up to 4 GHz Rated to 25 Watts, Brass Nickel Body, 1.25 VSWR SA4D251-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-7-16-male-7-16-female-25-watts-sa4d251-20-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

SA4D251-20 CAD Drawing
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ATTENUATION ACCURACY				
1-9 dB	10 dB	20 dB	30 dB	40 dB
±0.5	±0.6	±0.75	±0.75	±1.0

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 SA4F251-20		CAGE CODE 3FKR5	
		CAD FILE 011415	SHEET	SCALE N/A	SIZE A 5568