

20 dB Fixed Attenuator 7/16 Male (Plug) to
7/16 Female (Jack) Directional Up to 3 GHz Rated
to 300 Watts, Heatsink Body, 1.4 VSWR

SA3DMF300W-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 SA3DMF300W-20 is a 20 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 300 Watts. The versatile coaxial package uses 7/16 DIN male to 7/16 DIN female connectors. The Black Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		1.25		dB
VSWR			1.4:1	
Input Power, CW			300	Watts
Input Power, Peak			2.5	kWatts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1.5	1.5 to 3				GHz
VSWR, Max	1.2:1	1.4:1				
Attenuation Accuracy, Typ	1	1.25				dB

Mechanical Specifications

Size

Length	0 in [0 mm]
Width/Diameter	6.2 in [157.48 mm]
Height	6.3 in [160.02 mm]
Weight	lbs [0 g]
Body Material and Plating	Black Aluminum Heatsink

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Configuration

Design

Fixed, Directional

Connectors

Description	Connector 1	Connector 2
Type	7/16 DIN Male	7/16 DIN Female
Contact Material and Plating	Brass, Silver	Brass, Silver
Coupling Nut Material and Plating	Brass, Silver	
Hex Size	7/16 Inch	
Torque	25 in-lbs 2.83 Nm	
Body Material and Plating	Brass, Silver	Brass, Silver

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) Directional Up to 3 GHz Rated to 300 Watts, Heatsink Body, 1.4 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 \(Jack\) Directional Up to 3 GHz Rated to 300 Watts, Heatsink Body, 1.4 VSWR SA3DMF300W-20](#)

URL: <https://www.fairviewmicrowave.com/20db-fixed-attenuator-7-16-male-7-16-female-300-watts-sa3dmf300w-20-p.aspx>

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