

SA4020-20 DATA SHEET

20 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Directional Up to 40 GHz Rated to 10 Watts, Heatsink Body, 1.4 VSWR

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 SA4020-20 is a 20 dB Fixed Attenuator that operates from DC to 40 GHz and is rated to 10 Watts. The versatile coaxial package uses 2.92mm male to 2.92mm female connectors and is also REACH and RoHS compliant. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		40	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
VSWR			1.4:1	
Input Power, CW)), , , , , , , , , , , , , , , , , , ,	10	Watts

rated at $+25^{\circ}$ C, derated linearly to 0W at $+125^{\circ}$ C

Input Power, Peak		200	Watts
5μs pulse, 1.25% duty	cycle		

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 18	18 to 40				GHz
VSWR, Max	1.25:1	1.4:1				
Atten Accuracy, Ty	p 1	1.75				dB

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size Lenath Width/Diameter Weiaht

Body Material and Plating

2.14 in [54.36 mm] 1.5 in [38.1 mm] 0.1575 lbs [71.44 q]

Black Anodized Aluminum Heatsink

Configuration Design Fixed, Directional



Features:

- Directional
- DC to 40 GHz Frequency Range
- Attenuation 20±1.75 dB
- Max Power 10 Watts (CW)
- VSWR < 1.4:1

Applications:

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

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Package Style

Connectorized Module

Connectors

Description	Connector 1	Connector 2
Туре	2.92mm Male	2.92mm Female
Connector Spec.	MIL-STD-348A	MIL-STD-348A
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range

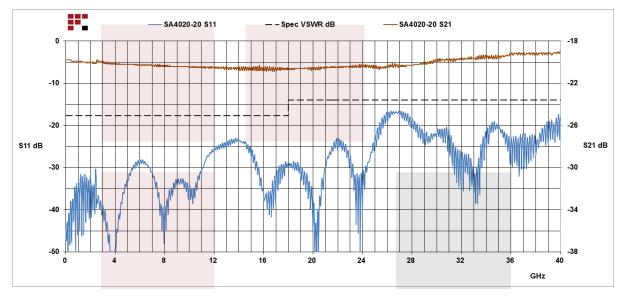
-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data







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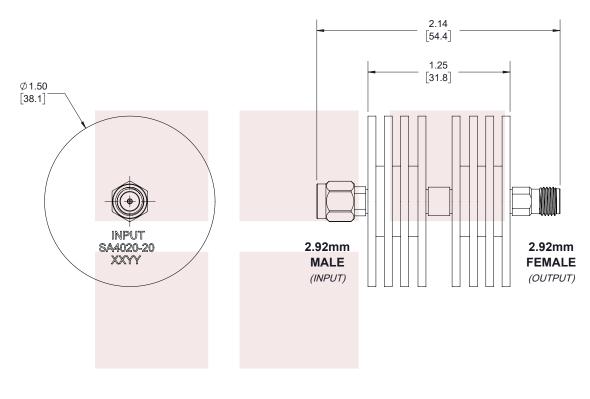
For additional information on this product, please click the following link: 20 dB Fixed Attenuator 2.92mm Male (Plug) to 2.92mm Female (Jack) Directional Up to 40 GHz Rated to 10 Watts, Heatsink Body, 1.4 VSWR SA4020-20

URL: https://www.fairviewmicrowave.com/20db-fixed-attenuator-2.92mm-male-2.92mm-female-10-watts-sa4020-20-p. aspx





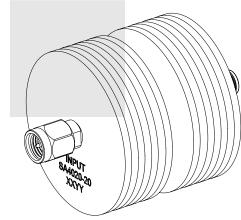




STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



Fairview Microwave

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 DWG NO
 CAGE CODE
 3FKR5

 CAD FILE
 06/12/18
 SHEET
 1 OF 1
 SCALE N/A
 SIZE A
 7361