

SA3011-20 DATA SHEET

20 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 2 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 SA3011-20 is a 20 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses SMA male to SMA female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		±1		dB
VSWR			1.3:1	
Input Power, CW derated linearly to 0.2W @ 125°C			2	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Description	F1	ΓZ	FJ	F4	FS	onits
Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.3:1				

Mechanical Specifications

Size Length Width/Diameter Weight Body Material and Plating

Configuration

Design Package Style 1.05 in [26.67 mm] 0.37 in [9.4 mm]

0.015 lbs [6.8 g] Passivated Stainless Steel

Fixed, Bidirectional Connectorized



Features:

- Bidirectional
- DC to 6 GHz Frequency Range
- Attenuation 20±1 dB
- Max Power 2 Watts (CW)
- VSWR < 1.3:1

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

Description	Connector 1	Connector 2		
Туре	SMA Male	SMA Female		
Connection Method	Standard	Standard		
Polarity	Standard	Standard		
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Contact Plating Spec.	30 µ-inch	30 µ-inch		
Dielectric Type	Teflon	Teflon		
Coupling Nut Material & Plating	Passivated Stainless Steel			
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel		

Environmental Specifications

Temperature					
Operating Range					
Storage Range					

-55 to +125 deg C -55 to +125 deg C

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

RoHS Compliant
REACH Compliant

Yes 12/17/2015

Plotted and Other Data

Notes:



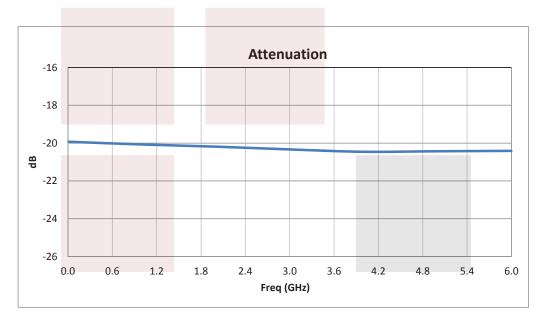
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Typical Performance Data





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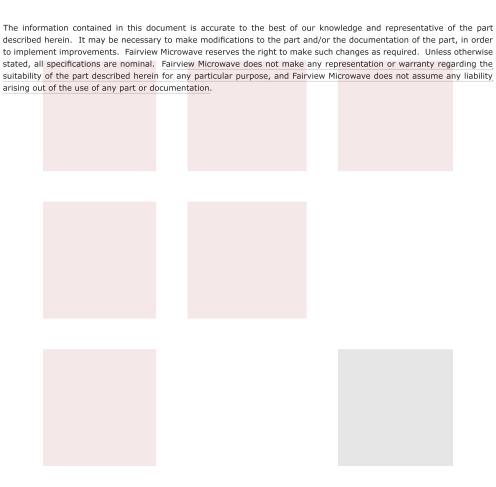




20 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 2 Watts With Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

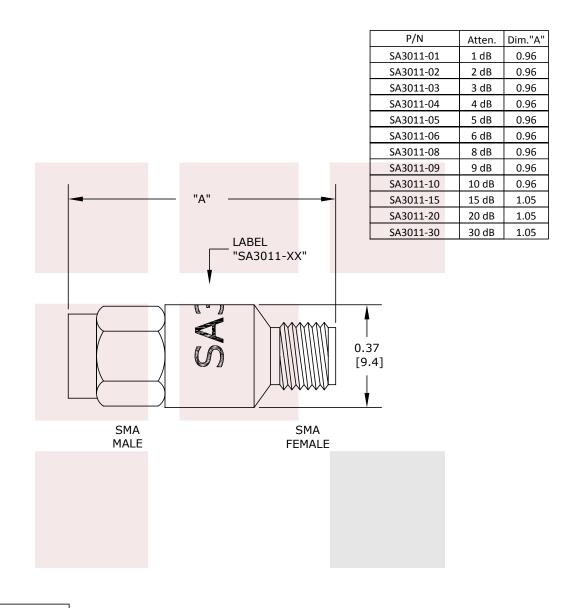
For additional information on this product, please click the following link: 20 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 2 Watts With Passivated Stainless Steel Body SA3011-20

URL: http://www.fairviewmicrowave.com/20db-fixed-attenuator-sma-male-sma-female-2-watts-sa3011-20-p.aspx









*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC.	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 20 dB Fixed Attenuator SMA Male To SMA Female Up To 6 GHz Rated To 2 Watts With Passivated Stainless Steel Body	DWG NO SA3011			CAGE CODE 3FKR5		
	CAD FILE 030216	SHEET	SCAL	E N/A	SIZE A	3045

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