

SA6021-01 DATA SHEET

1 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 2 Watts With Brass Tri-Metal 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 SA6021-01 is a 1 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses N male to N 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		1		dB
Attenuation Accuracy		±0.75		dB
VSWR			1.25:1	
Input Power, CW derated linearly to 0.2	W @ 125°C		2	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 3	3 to 6				GHz
VSWR, Max	1.15:1	1.25:1				

Mechanical Specifications

Size

Length 1.61 in [40.89 mm]
Width/Diameter 0.79 in [20.07 mm]
Weight 0.11 lbs [49.9 g]
Body Material and Plating Brass, Tri-Metal

Configuration

Design Fixed, Bidirectional Package Style Connectorized



Features:

- Bidirectional
- DC to 6 GHz Frequency Range
- Attenuation 1±0.75 dB
- Max Power 2 Watts (CW)
- VSWR < 1.25:1

Applications:

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

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Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Female		
Connection Method	Standard	Standard		
Polarity	Standard	Standard		
Contact Material & Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold		
Contact Plating Spec.	30 μ-inch	30 µ-inch		
Dielectric Type	Teflon	Teflon		
Coupling Nut Material & Plating	Brass, Tri-Metal			
Body Material & Plating	Brass, Tri-Metal	Brass, Tri-Metal		

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C Storage Range -55 to +125 deg C

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

RoHS Compliant Yes

REACH Compliant 12/17/2015

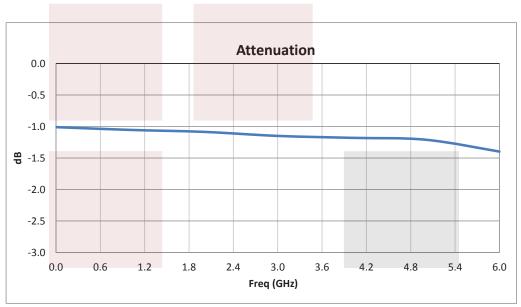
Plotted and Other Data

Notes:



Typical Performance Data









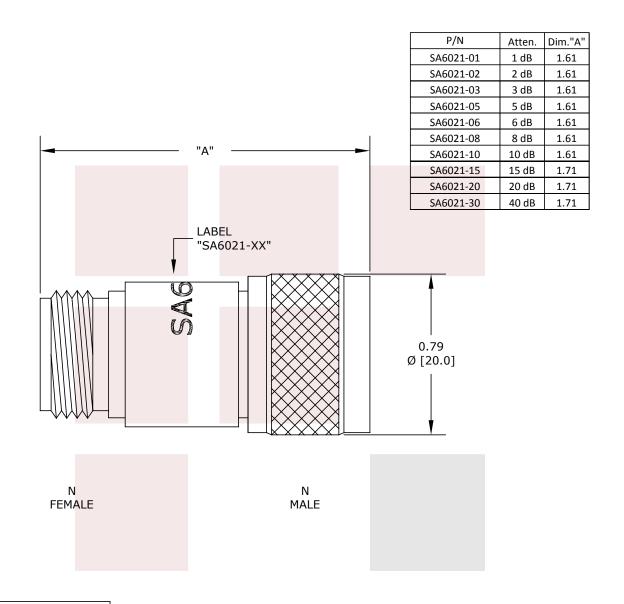
1 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 2 Watts With Brass Tri-Metal Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave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

For additional information on this product, please click the following link: 1 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 2 Watts With Brass Tri-Metal Body SA6021-01

URL: http://www.fairviewmicrowave.com/1db-fixed-attenuator-n-male-n-female-2-watts-sa6021-01-p.aspx







STANDARD TOLERANCES DECIMAL

.XX ±0.01 .XXX ±0.005

*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].					
1 dB Fixed Attenuator N Male To N Female Up To 6	DWG NO	SA6021		CAGE C	AGE CODE 3FKR5	
GHz Rated To 2 Watts With Brass Tri-Metal Body	CAD FILE 102215	SHEET	SCALE	E N/A	SIZE A	150