30 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 6 GHz Rated to 2 Watts, Brass Tri-Metal Body, 1.25 VSWR

SA6021-30

Features

- Bidirectional
- DC to 6 GHz Frequency Range
- Attenuation 30±1 dB
- Max Power 2 Watts (CW)
- VSWR < 1.25:1

Applications

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

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 SA6021-30 is a 30 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 2 Watts. The versatile coaxial package uses type N male to type N female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		1		dB
VSWR			1.25:1	
Input Power, CW			2	Watts
derated linearly to 0.2W @ 125°C				

Specifications by Frequency

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

Mechanical Specifications

Size

Length	1.71 in [43.43 mm]
Width/Diameter	0.79 in [20.07 mm]
Height	0 in [0 mm]
Weight	0.121 lbs [54.88 g]
Body Material and Plating	Brass, Tri-Metal

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Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Phosphor Bronze, Gold	Phosphor Bronze, Gold
Contact Plating Specification	30 µ-inch	30 µ-inch
Dielectric Type	Teflon	Teflon
Coupling Nut Material and Plating	Brass, Tri-Metal	
Body Material and 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 (see product page for current document)

Plotted and Other Data

Notes:

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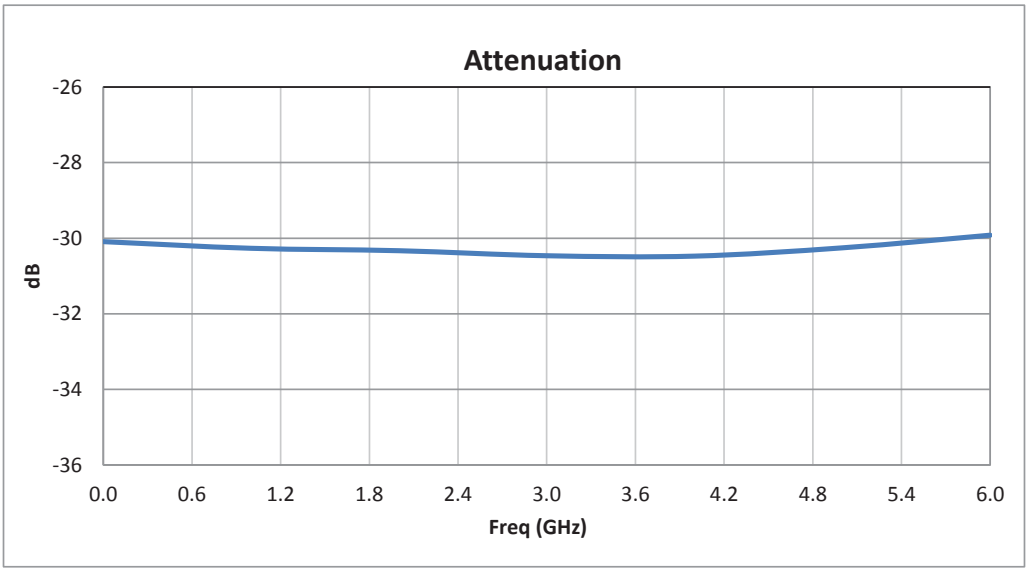
Typical Performance Data



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30 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 6 GHz Rated to 2 Watts, Brass Tri-Metal 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: 30 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 6 GHz Rated to 2 Watts, Brass Tri-Metal Body, 1.25 VSWR SA6021-30

URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-n-male-n-female-2-watts-sa6021-30-p.aspx

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