

1 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink 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 varieties and ships them same day. The SA6N5WA-01 is a 1 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 5 Watts. The versatile coaxial package uses type N male to type N 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		6	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
Attenuation Accuracy		±0.75		dB
VSWR			1.25:1	
Input Power, CW			5	Watts
derated linearly to 0.5	W at +125°C			
Input Power, Peak 5µs pulse, 0.25% duty	v cycle		500	Watts

Features:

- DC to 6 GHz Frequency Range
- Attenuation 1±0.75 dB
- Max Power 5 Watts (CW)
- VSWR < 1.25:1

Applications:

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

Mechanical Specifications

Size Length Width/Diameter Weight Body Material and Plating

Configuration

Design Package Style 2.15 in [54.61 mm] 0.86 in [21.84 mm] 0.132 lbs [59.87 g] Black Anodized Aluminum Heatsink

Fixed Connectorized Module

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

SA6N5WA-01 DATA SHEET





Connectors

Connector 1	Connector 2	
N Male	N Female	
Beryllium Copper, Gold	Beryllium Copper, Gold	
MIL-PRF-39012	MIL-PRF-39012	
Teflon	Teflon	
Passivated Stainless Steel	Passivated Stainless Steel	
	N Male Beryllium Copper, Gold MIL-PRF-39012 Teflon	

Mechanical Specification Notes:

Materials and finishes comply with MIL-DTL-3933 and MIL-PRF-39012.

Environmental Specifications

Temperature Operating Range

-65 to +125 deg C

Environmental Specification Notes: Designed to meet environmental requirements of MIL-DTL-3933.

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



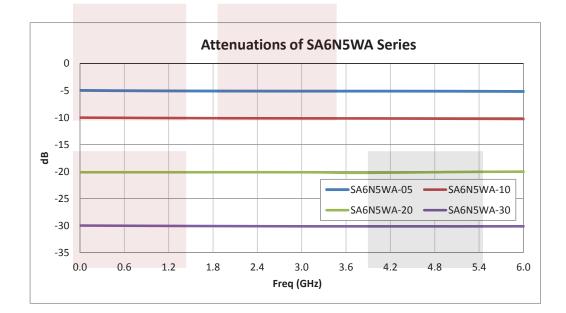


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Return Loss 0 -10 -20 **ප** -30 -40 **-**S11 -50 S22 -60 0.0 0.6 1.2 1.8 2.4 3.0 3.6 4.2 4.8 5.4 6.0 Freq (GHz)



Typical Performance Data

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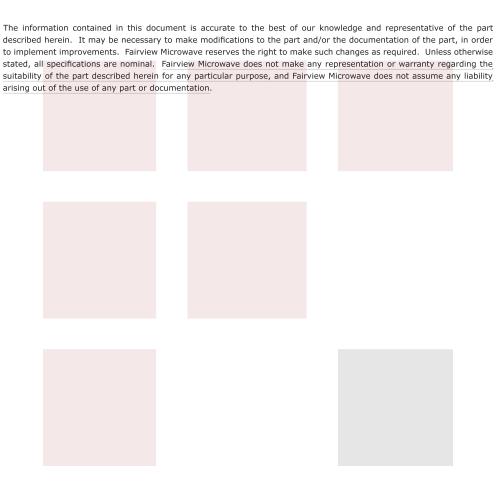




1 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

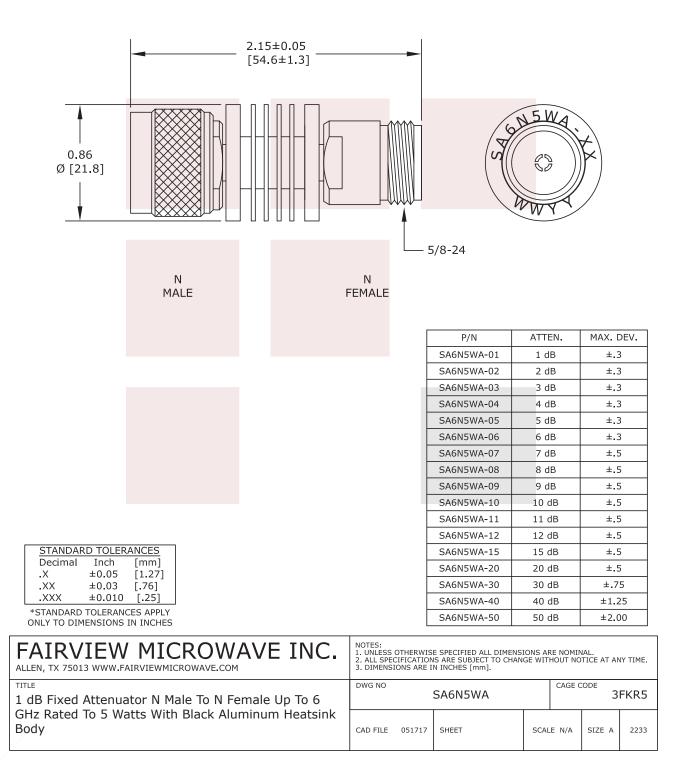
For additional information on this product, please click the following link: 1 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink Body SA6N5WA-01

URL: https://www.fairviewmicrowave.com/1db-fixed-attenuator-n-male-n-female-5-watts-sa6n5wa-01-p.aspx









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