

SA6N5WA-50 DATA SHEET

50 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-50 is a 50 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		50		dB	
Attenuation Accuracy		±1.5		dB	
VSWR			1.25:1		
Input Power, CW			5	Watts	
derated linearly to 0.5	W at +125°C				
Input Power, Peak			500	Watts	
5μs pulse, 0.25% duty	v cycle				

Mechanical Specifications

Size

 Length
 2.15 in [54.61 mm]

 Width/Diameter
 0.86 in [21.84 mm]

 Weight
 0.132 lbs [59.87 q]

Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Fixed

Package Style Connectorized Module



Features:

- DC to 6 GHz Frequency Range
- Attenuation 50±1.5 dB
- Max Power 5 Watts (CW)
- VSWR < 1.25:1

Applications:

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

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Connectors

Description Connector 1			
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

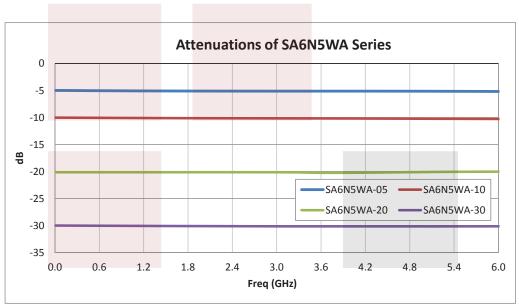
Notes:





Typical Performance Data





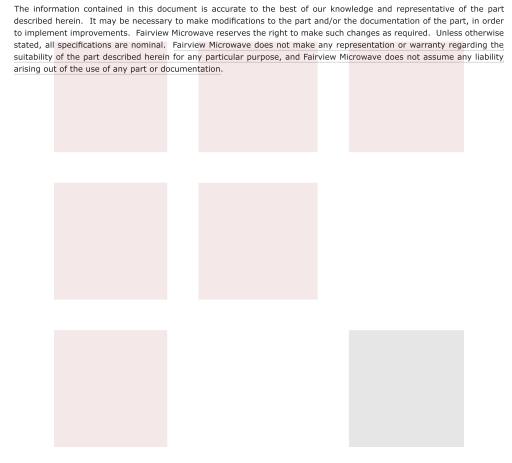




50 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview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

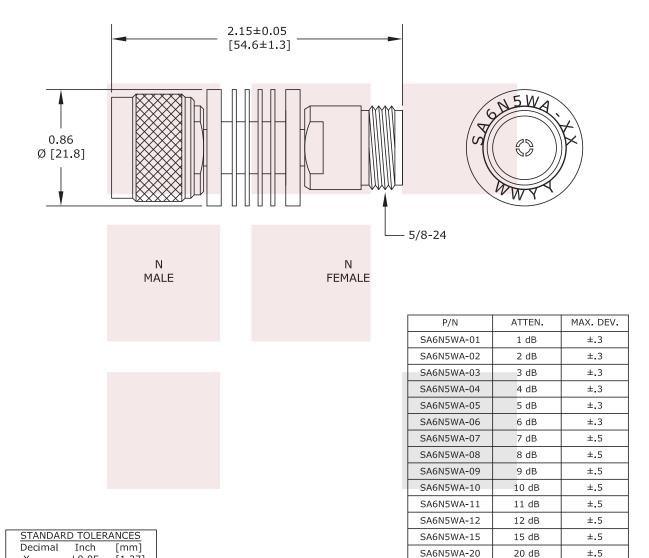
For additional information on this product, please click the following link: 50 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink Body SA6N5WA-50

URL: https://www.fairviewmicrowave.com/50db-fixed-attenuator-n-male-n-female-5-watts-sa6n5wa-50-p.aspx









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].						
50 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 5 Watts With Black Aluminum Heatsink Body	DWG NO SA6N5WA			CAGE CODE 3FKR5			
	CAD FILE 051717	SHEET	SCALE	≣ N/A	SIZE A	2233	

.X

.XX

.XXX

±0.05

±0.03

 ± 0.010

*STANDARD TOLERANCES APPLY

ONLY TO DIMENSIONS IN INCHES

[1.27]

[.76]

SA6N5WA-30

SA6N5WA-40

SA6N5WA-50

30 dB

40 dB

50 dB

±.75

 ± 1.25

±2.00