

SA18N50W-30 DATA SHEET

30 dB Fixed Attenuator N Male To N Female Up To 18 GHz Rated To 50 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 SA18N50W-30 is a 30 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 50 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

50 30 1.5	1.5:1	GHz Ohms dB dB
30	1.5:1	dB
	1.5:1	
1.5	1.5:1	dB
	1.5:1	
+125	50 5°C	Watts
	1	KWatts
-	125	125°C 1

Electrical Specification Notes: Values at +25°C, sea level.

Mechanical Specifications

Size Length Width/Diameter Weight

5.63 in [143 mm] 1.5 in [38.1 mm] 0.463 lbs [210.01 g]

Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Package Style Fixed, Bidirectional Connectorized Module



Features:

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 30±1.5 dB
- Max Power 50 Watts (CW)
- VSWR < 1.5:1

Applications:

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

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Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Female		
Connector Spec.	MIL-STD-348A	MIL-STD-348A		
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel		

Environmental Specifications

Temperature

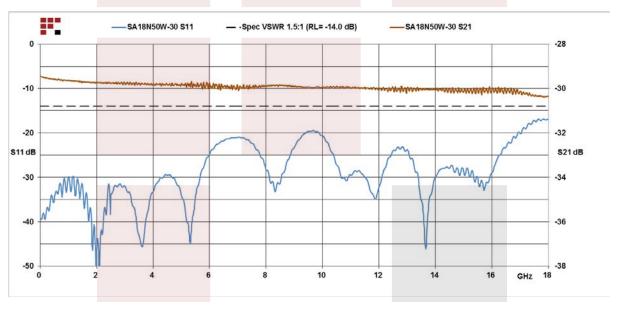
Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



30 dB Fixed Attenuator N Male To N Female Up To 18 GHz Rated To 50 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.

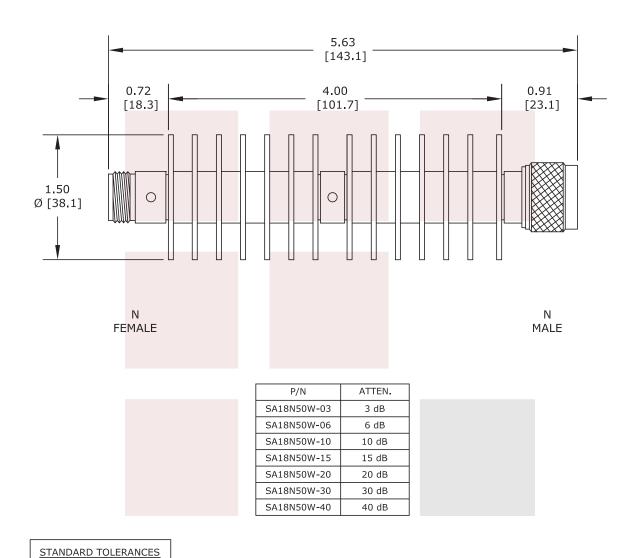
For additional information on this product, please click the following link: 30 dB Fixed Attenuator N Male To N Female Up To 18 GHz Rated To 50 Watts With Black Aluminum Heatsink Body SA18N50W-30

URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-n-male-n-female-50-watts-sa18n50w-30-p.aspx

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1130 Junction Dr. #100 Allen, TX 75013 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689





DECIMAL .XX ±0.01 .XXX ±0.003

*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].						
30 dB Fixed Attenuator N Male To N Female Up To 18 GHz Rated To 50 Watts With Black Aluminum Heatsink Body	DWG NO SA18N50W				CAGE CODE 3FKR5		
	CAD FILE 030	0116	SHEET	SCAL	E N/A	SIZE A	3045