

6 dB Fixed Attenuator N Male To N Female Directional 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 selections and ships them same day. The SA18N507-06 is a 6 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 50 Watts. The versatile coaxial package uses N male to 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		18	GHz
Impedance		50		Ohms
Nominal Attenuation		6		dB
VSWR			1.55:1	
nput Power, CW derated linearly to 10W at +125°C			50	Watts
Input Power, Peak 5µs pulse, 0.05% duty	/ cycle		500	
Reverse Power, CW			5	Watts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 6	6 to 12.4	12.4 to 18			GHz
VSWR, Max	1.25:1	1.35:1	1.55:1			
Atten Accuracy, Ty	p ±1	±1.25	±1.5			dB

Mechanical Specifications

Size
Length
Width/Diameter
Height
Weight
Body Material and Plating

4.75 in [120.65 mm] 3 in [76.2 mm] 3 in [76.2 mm] 1.621 lbs [735.27 g]

Black Anodized Aluminum Heatsink

SA18N507-06 DATA SHEET



Features:

- Directional
- DC to 18 GHz Frequency Range
- Attenuation 6±1.5 dB
- Max Power 50 Watts (CW)
- VSWR < 1.55:1

Applications:

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

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





Configuration

Design Fixed, Directional Package Style Connectorized Module

Connectors

Description	Connector 1	Connector 2				
Туре	N Male	N Female				
Connection Method	Standard	Standard				
Polarity	Standard	Standard				
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold				
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel				

Environmental Specifications

Temperature

Operating Range -65 to +125 deg C

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

RoHS Compliant Yes

REACH Compliant 12/17/2015

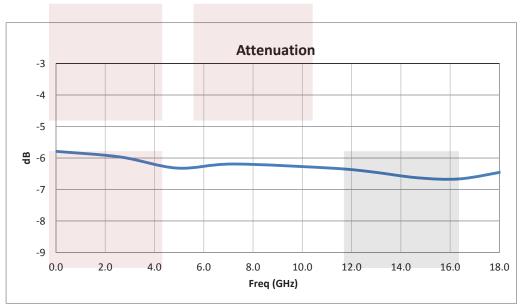
Plotted and Other Data

Notes:



Typical Performance Data





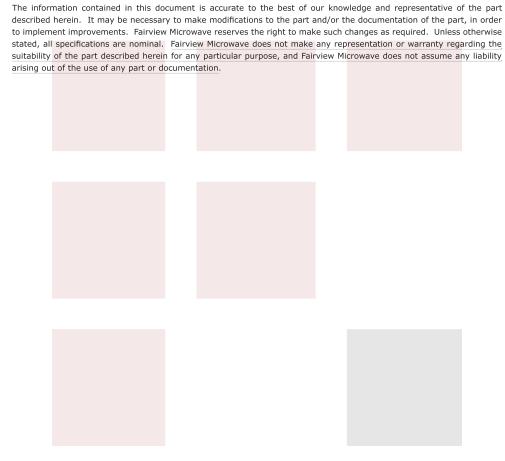




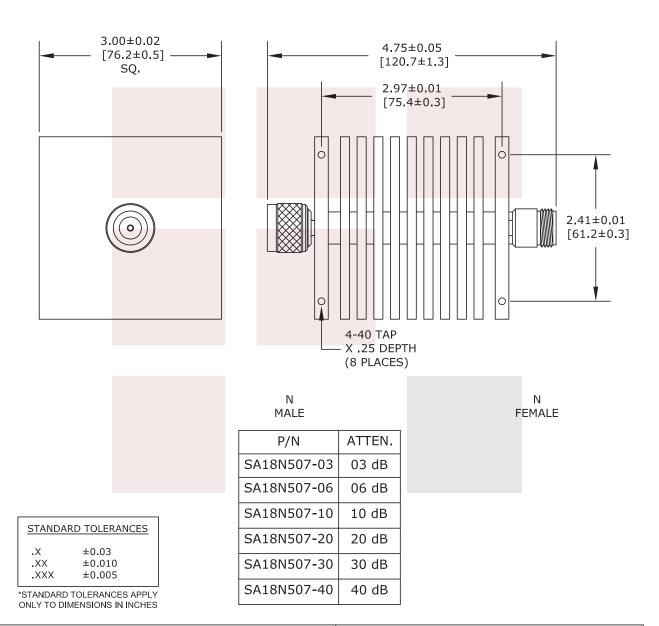
6 dB Fixed Attenuator N Male To N Female Directional Up To 18 GHz Rated To 50 Watts With Black Aluminum Heatsink Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 6 dB Fixed Attenuator N Male To N Female Directional Up To 18 GHz Rated To 50 Watts With Black Aluminum Heatsink Body SA18N507-06

URL: http://www.fairviewmicrowave.com/6db-fixed-attenuator-n-male-n-female-50-watts-sa18n507-06-p.aspx







	ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. DIMENSIONS ARE IN INCHES [mm].					
- 1	6 dB Fixed Attenuator N Male To N Female Directional Up To 18 GHz Rated To 50 Watts With Black Aluminum Heatsink Body	DWG NO SA18N507			CAGE CODE 3FKR5		
- 1		CAD FILE	031716	SHEET	SCAL	E N/A	SIZE A