

50 dB Fixed Attenuator N Female To N Female
Directional Up To 6 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 SA18NFN50W-50 is a 50 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 50 Watts. The versatile coaxial package uses N female to N female connectors. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.



Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		50		dB
Attenuation Accuracy			±1.25	dB
VSWR			1.3:1	
Input Power, CW			50	Watts
Input Power, Peak			500	Watts

Mechanical Specifications

Size		
Length		4.01 in [101.85 mm]
Width/Diameter		3 in [76.2 mm]
Height		3 in [76.2 mm]
Weight		1.796 lbs [814.65 g]
Body Material and Plating		Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Directional
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Connectors

Description	Connector 1	Connector 2
Type	N Female	N Female
Connection Method	Standard	Standard
Polarity	Standard	Standard
Contact Material & Plating	Brass, Gold	Brass, Gold
Outer Conductor Material & Plating		Brass, Silver
Hex Size	16-Nov In.	16-Nov In.
Body Material & Plating	Stainless Steel, Passivated	Stainless Steel, Passivated

Environmental Specifications

Temperature

Operating Range

-65 to 125 deg C

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

Plotted and Other Data

Notes:

50 dB Fixed Attenuator N Female To N Female Directional Up To 6 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: [50 dB Fixed Attenuator N Female To N Female Directional Up To 6 GHz Rated To 50 Watts With Black Aluminum Heatsink Body SA18NFnF50W-50](http://www.fairviewmicrowave.com/50db-fixed-attenuator-n-female-n-female-50-watts-sa18nfnf50w-50-p.aspx)

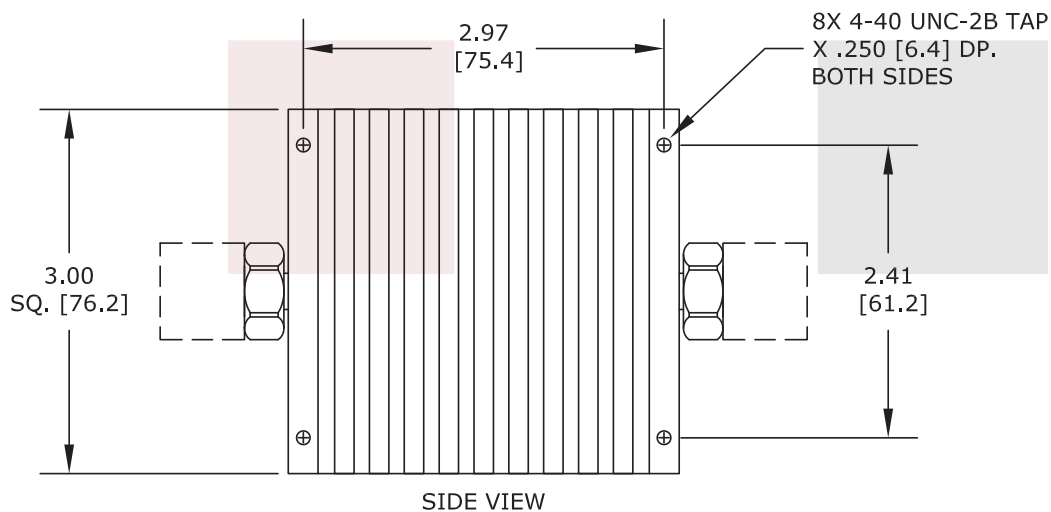
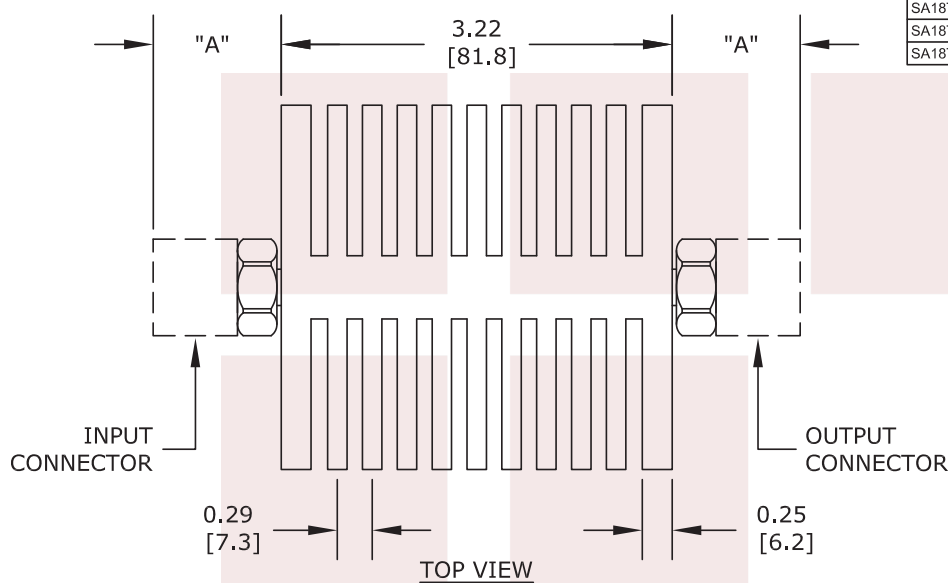
URL: <http://www.fairviewmicrowave.com/50db-fixed-attenuator-n-female-n-female-50-watts-sa18nfnf50w-50-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

Add to end of part number	
- yy =	Attenuation
- 03	3 dB
- 06	6 dB
- 10	10 dB
- 20	20 dB
- 30	30 dB
- 40	40 dB
- 50	50 dB
- 60	60 dB

Part Number Configuration		
Part Number	Input Connector	Output Connector
SA75DFDM50W	7/16 Female	7/16 Male
SA75DMD50W	7/16 Male	7/16 Female
SA75DFDF50W	7/16 Female	7/16 Female
SA18NFM50W	N Female	N Male
SA18NMNF50W	N Male	N Female
SA18NFN50W	N Female	N Female
SA18SFSM50W	SMA Female	SMA Male
SA18SMSF50W	SMA Male	SMA Female
SA18SFSF50W	SMA Female	SMA Female
SA18TFTM50W	TNC Female	TNC Male
SA18TMTF50W	TNC Male	TNC Female
SA18TFTF50W	TNC Female	TNC Female

Table of Information	
Connector Type	DIM "A" (REF.)
SMA Male	0.7800
SMA Female	0.6300
TNC Male	0.9600
TNC Female	1.0600
N Female	1.0900
N Male	1.1300
7/16 Male	1.2800
7/16 Female	1.3200



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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].

TITLE
50 dB Fixed Attenuator N Female To N Female
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Aluminum Heatsink Body

DWG NO
SA18XXXX50w-yy
CAGE CODE
3FKR5
CAD FILE 063014 SHEET SCALE N/A SIZE A 2233