F2

8 to 12.4

1.25:1

F1

DC to 8

1.2:1

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F4

F5

Units

GHz

Electrical Specification Notes:

Specifications by Frequency

Frequency Range

VSWR, Max

Description

Values at +25°C, sea level.

and ships them same day. The SA18N25WA-20 is a 20 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 25 Watts. The versatile coaxial package uses type N male to type N female connectors. The Black Anodized Aluminum Heatsink body allows for efficient heat dissipation under high power usage conditions.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		0.75		dB
VSWR			1.35:1	
Input Power, CW			25	Watts
rated at +25°C, derated linearly to 2.5	W at +125°C			
Input Power, Peak			1	kWatts
5µs pulse, 2.5% duty cycle				

F3

12.4 to 18

1.35:1

Max Power 25 Watts (CW)

20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR

- DC to 18 GHz Frequency Range
- Attenuation 20dB Typical

Instrumentation

- · Precision measurements

Description

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

SA18N25WA-20

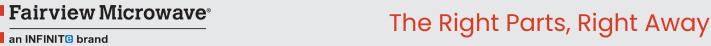
an INFINIT@ brand

- Features
- Bidirectional

Applications

- Prototyping and characterization
- Production systems

VSWR < 1.35:1







20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR

SA18N25WA-20

Mechanical Specifications

Size Length Width/Diameter Height Weight Body Material and Plating

3.43 in [87.12 mm] 1.5 in [38.1 mm] 0 in [0 mm] 0.2883 lbs [130.77 g] Black Anodized Aluminum Heatsink

Configuration

Design Package Style Fixed, Bidirectional Connectorized Module

Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Female		
Connector Specification	MIL-STD-348A	MIL-STD-348A		
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold		
Body Material and 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:

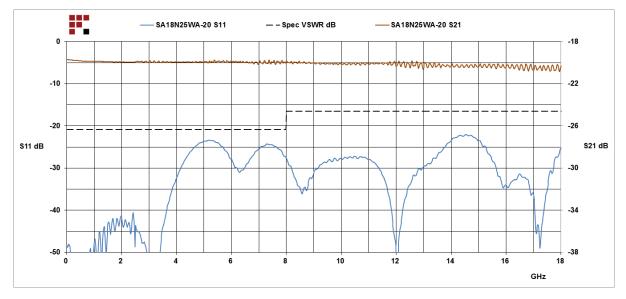


20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR



SA18N25WA-20

Typical Performance Data



20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

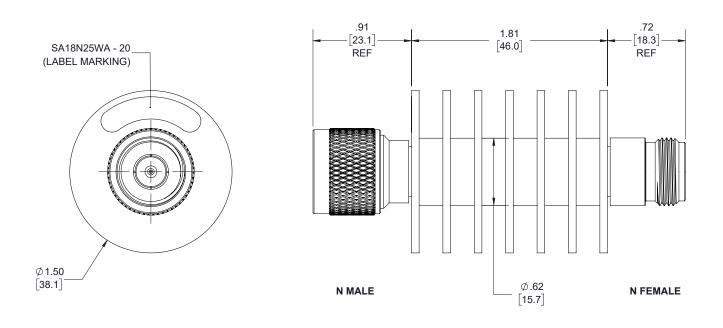
For additional information on this product, please click the following link: 20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR SA18N25WA-20

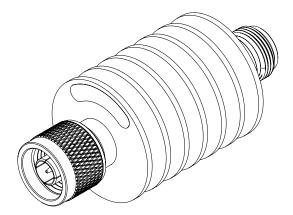
URL: https://www.fairviewmicrowave.com/20db-fixed-attenuator-n-male-n-female-25-watts-sa18n25wa-20-p.aspx

The information contained within 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 impliment 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 liability arising out of the use of any part or document.

SA18N25WA-20 CAD Drawing

20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 18 GHz Rated to 25 Watts, Heatsink Body, 1.35 VSWR





<u>STAN</u>	DARD TOLERANCES	
.Х	±0.2	
.XX	±0.01	
.XXX	±0.005	

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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].								
DWG NO SA18N25WA-20				CAGE CODE 3FKR5				
CAD FILE	01/10/19	SHEET	1 OF 1	SCAL	E N/A	SIZE A	7361	

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