

20 dB Fixed Attenuator N Male to N Female Up to 18 GHz Rated to 25 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 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 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

Min	Min Typ M		Max	Units
DC			18	GHz
	50			Ohms
	20			dB
	±0.7	5		dB
			1.35:1	
			25	Watts
	DC	DC 50	DC 50	DC 18 50 20 ±0.75 1.35:1

rated at +25°C, derated linearly to 2.5W at +125°C

Input Power, Peak 1 kWatts 5µs pulse, 2.5% duty cycle

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 8	8 to 12.4	12.4 to 18			GHz
VSWR, Max	1.2:1	1.25:1	1.35:1			

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

Mechanical Specifications

Size Length Width/Diameter Weight

1.5 in [38.1 mm] 0.295 lbs [133.81 g] Black Anodized Aluminum Heatsink

3.43 in [87.12 mm]

Body Material and Plating Black

Configuration

Design Fixed, Bidirectional

SA18N25WA-20 DATA SHEET



Features:

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 20dB Typical
- Max Power 25 Watts (CW)
- VSWR < 1.35:1

Applications:

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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689

www.fairviewmicrowave.com sales@fairviewmicrowave.com





Package Style Connectorized Module

Connectors

Connector 1	Connector 2		
N Male	N Female		
MIL-STD-348A	MIL-STD-348A		
Beryllium Copper, Gold	Beryllium Copper, Gold		
Passivated Stainless Steel	Passivated Stainless Steel		
	N Male MIL-STD-348A Beryllium Copper, Gold		

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 to N Female Up to 18 GHz Rated to 25 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: 20 dB Fixed Attenuator N Male to N Female Up to 18 GHz Rated to 25 Watts with Black Aluminum Heatsink Body SA18N25WA-20

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

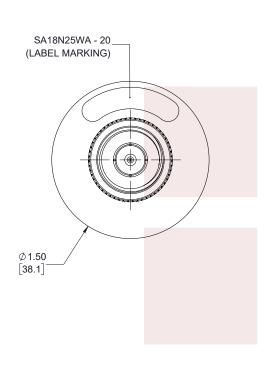
301 Leora Ln., Suite 100, Lewisville, TX 75056 | Tel: 1-800-715-4396 / (972) 649-6678 / Fax: (972) 649-6689

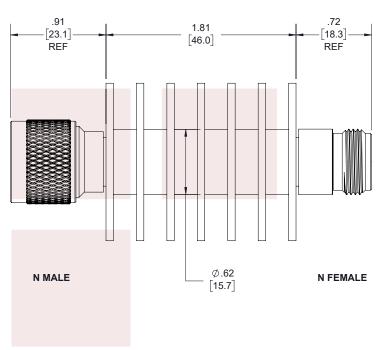
Copyright © 2019

REV 3.0 Page 2 of 3

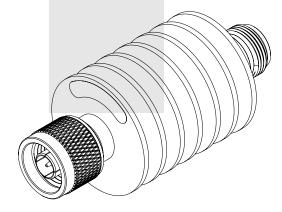












STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



20 dB Fixed Attenuator N Male to N Female Up to 18 GHz Rated to 25 Watts with Black Aluminum Heatsink Body

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 CAGE CODE SA18N25WA-20 3FKR5 CAD FILE 01/10/19 SHEET 1 OF 1 SCALE N/A SIZE A 7361