

10 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-10 is a 10 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

Description	Min	Тур	Max	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		±0.5		dB
VSWR			1.35:1	
Input Power, CW			25	Watts

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] 0.289 lbs [131.09 g]

3.43 in [87.12 mm]

Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Fixed, Bidirectional

SA18N25WA-10 DATA SHEET



Features:

- Bidirectional
- DC to 18 GHz Frequency Range
- Attenuation 10dB Typical
- Max Power 25 Watts (CW)
- VSWR < 1.35:1

Applications:

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

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Package Style

Connectorized Module

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:

10 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: 10 dB Fixed Attenuator N Male to N Female Up to 18 GHz Rated to 25 Watts with Black Aluminum Heatsink Body SA18N25WA-10

URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-n-male-n-female-25-watts-sa18n25wa-10-p.aspx

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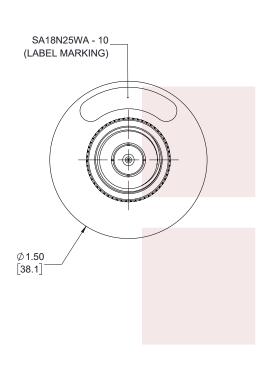
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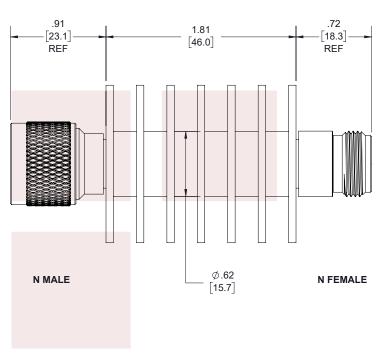
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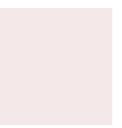
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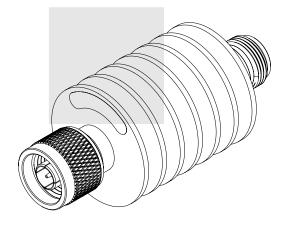












STANDARD TOLERANCES

.X ±0.2 .XX ±0.01 .XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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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].

DWG NO CAGE CODE SA18N25WA-10 3FKR5 CAD FILE 01/10/19 SHEET 1 OF 1 SCALE N/A SIZE A 7361