

SA4N25-20 DATA SHEET

20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 4 GHz Rated to 25 Watts, Heatsink Body, 1.2 VSWR

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 SA4N25-20 is a 20 dB Fixed Attenuator that operates from DC to 4 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

DescriptionMinTypMaxUnitsFrequency RangeDC4GHzImpedance50OhmsNominal Attenuation20dBAttenuation Accuracy0.6dBVSWR1.2:1Input Power, CW rated at +25°C, derated linearly to 2.5W at +125°CInput Power, Peak 5μs pulse, 0.25% duty cycle5kWatts					
Impedance 50 Ohms Nominal Attenuation 20 dB Attenuation Accuracy 0.6 dB VSWR 1.2:1 Input Power, CW 25 Watts rated at +25°C, derated linearly to 2.5W at +125°C Input Power, Peak 5 kWatts	Description	Min	Тур	Max	Units
Nominal Attenuation 20 dB Attenuation Accuracy 0.6 dB VSWR 1.2:1 Input Power, CW 25 Watts rated at +25°C, derated linearly to 2.5W at +125°C Input Power, Peak 5 kWatts	Frequency Range	DC		4	GHz
Attenuation Accuracy 0.6 dB VSWR 1.2:1 Input Power, CW 25 Watts rated at +25°C, derated linearly to 2.5W at +125°C Input Power, Peak 5 kWatts	Impedance		50		Ohms
VSWR 1.2:1 Input Power, CW 25 Watts rated at +25°C, derated linearly to 2.5W at +125°C Input Power, Peak 5 kWatts	Nominal Attenuation		20		dB
Input Power, CW 25 Watts rated at +25°C, derated linearly to 2.5W at +125°C Input Power, Peak 5 kWatts	Attenuation Accuracy		0.6		dB
rated at +25°C, derated linearly to 2.5W at +125°C Input Power, Peak 5 kWatts	VSWR			1.2:1	
	•	ed linearly to 2.5	W at +1		Watts
	•	/ cycle		5	kWatts

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

Mechanical Specifications

Size Length Width/Diameter Height Weight

Weight 0.3635 lbs [164.88 g]
Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Package Style Fixed, Bidirectional Connectorized Module

3.17 in [80.52 mm]

1.45 in [36.83 mm]

1.5 in [38.1 mm]



Features:

- Bidirectional
- · DC to 4 GHz Frequency Range
- Attenuation 20±0.6 dB
- Max Power 25 Watts (CW)
- VSWR < 1.2:1

Applications:

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

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Connectors

N Male	N Female
MIL-STD-348A	MIL-STD-348A
Beryllium Copper, Gold	Beryllium Copper, Gold
MIL-G-45205	MIL-G-45205
Passivated Stainless Steel	Passivated Stainless Steel
	MIL-G-45205

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

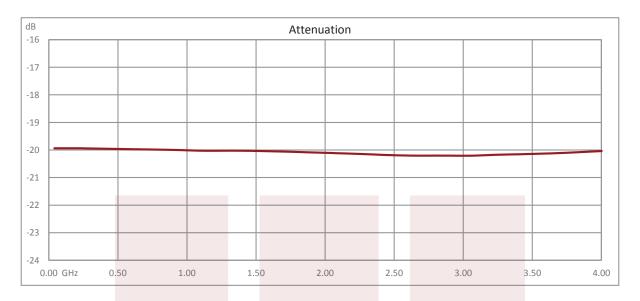
Notes:

Typical Performance Data









20 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 4 GHz Rated to 25 Watts, Heatsink Body, 1.2 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 4 GHz Rated to 25 Watts, Heatsink Body, 1.2 VSWR SA4N25-20

URL: https://www.fairviewmicrowave.com/20db-fixed-attenuator-n-male-n-female-25-watts-sa4n25-20-p.aspx

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