

SA4N251-20 DATA SHEET

20 dB Fixed Attenuator N Male To N Female Up To 4 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 selections and ships them same day. The SA4N251-20 is a 20 dB Fixed Attenuator that operates from DC to 4 GHz and is rated to 25 Watts. The versatile coaxial package uses N male to 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		4	GHz
Impedance		50		Ohms
Nominal Attenuation		20		dB
Attenuation Accuracy		±0.6		dB
VSWR			1.25:1	
Passive Intermodulation			-100	dBc
Input Power, CW derated linearly to 2.5	W @125°C		25	Watts
Input Power, Peak 5µs pulse, 2.5% duty	cycle		1	KWatts

Electrical Specification Notes:

Passive intermodulation specified at 910MHz with two input signals at 935MHz and 960MHz with average carrier power levels of +43dBm each.

Mechanical Specifications

Size

Length 3.27 in [83.06 mm]
Width/Diameter 1.5 in [38.1 mm]
Weight 0.265 lbs [120.2 g]

Body Material and Plating Black Anodized Aluminum Heatsink

Configuration

Design Fixed, Bidirectional Package Style Connectorized



Features:

- Bidirectional
- DC to 4 GHz Frequency Range
- Attenuation 20±0.6 dB
- Max Power 25 Watts (CW)
- VSWR < 1.25:1

Applications:

- Instrumentation
- · Precision Measurements
- Prototyping and Characterization
- · Production Systems

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Connectors

Description	Connector 1	Connector 2			
Туре	N Male	N Female			
Connection Method	Standard	Standard			
Polarity	Standard	Standard			
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold			
Outer Conductor Material & Plating	Brass, Nickel	Brass, Nickel			
Body Material & Plating	Brass, Nickel	Brass, Nickel			

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

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

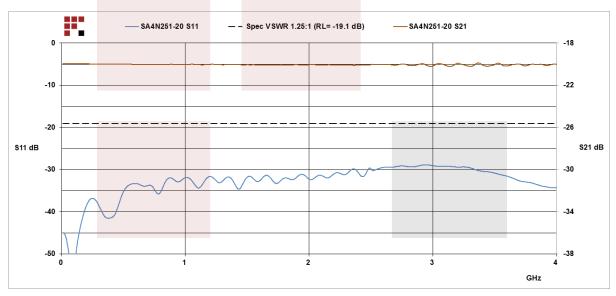
RoHS Compliant Yes

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data







20 dB Fixed Attenuator N Male To N Female Up To 4 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 4 GHz Rated To 25 Watts With Black Aluminum Heatsink Body SA4N251-20

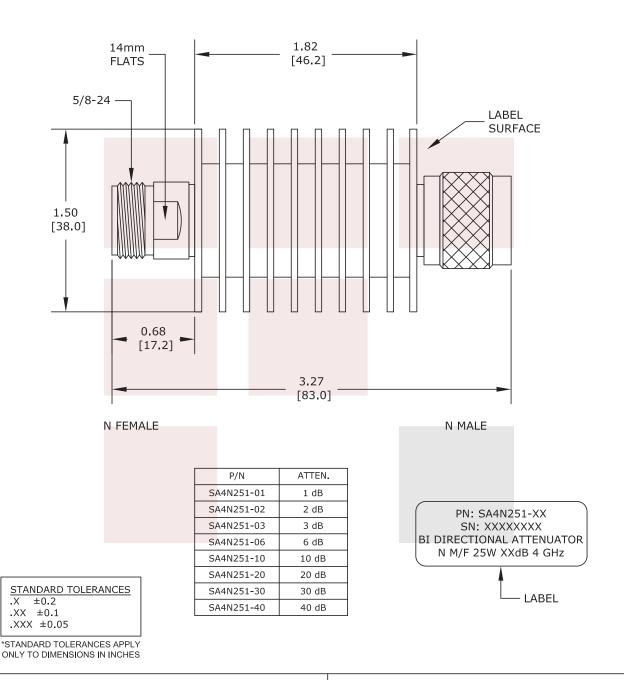
The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: http://www.fairviewmicrowave.com/20db-fixed-attenuator-n-male-n-female-25-watts-sa4n251-20-p.aspx

described	herein. It m	ay be necessar	y to ma	ke modificatio	ns to the part a	nd/or tl	he documentation of the p	art, in order
to implem	ent improver	nents. Fairview	/ Microw	ave reserves t	he right to mak	e such o	changes as required. Unle	ss otherwise
							resentation or warranty re	
					rpose, and Fair	view Mi	crowave does not assume	any liability
arising out	t of the use c	of any part or do	ocument	tation.				







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20 dB Fixed Attenuator N Male To N Female Up To 4		DWG NO SA4N251			CAGE CODE 3FKR5		
GHz Rated To 25 Watts With Black Aluminum Heats Body	CAD FILE	032316	SHEET	SCAL	E N/A	SIZE A	3045