

6 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 4 GHz Rated to 50 Watts, Heatsink Body, 1.35 VSWR

SA4N508-06



Features

- Bidirectional
- DC to 4 GHz Frequency Range
- Attenuation 6 ± 0.75 dB
- Max Power 50 Watts (CW)
- VSWR < 1.35:1

Applications

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

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 and ships them same day. The SA4N508-06 is a 6 dB Fixed Attenuator that operates from DC to 4 GHz and is rated to 50 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		4	GHz
Impedance		50		Ohms
Nominal Attenuation		6		dB
Attenuation Accuracy		0.75		dB
VSWR			1.35:1	
Passive Intermodulation			-100	dBc
Input Power, CW			50	Watts
derated linearly to 5W @125°C				
Input Power, Peak			10	kWatts
5μs pulse, 0.5% duty cycle				

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	5.12 in [130.05 mm]
Width/Diameter	2.36 in [59.94 mm]
Height	2.36 in [59.94 mm]
Weight	1.4535 lbs [659.3 g]

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Body Material and Plating	Black Anodized Aluminum Heatsink
Configuration	
Design	Fixed, Bidirectional
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

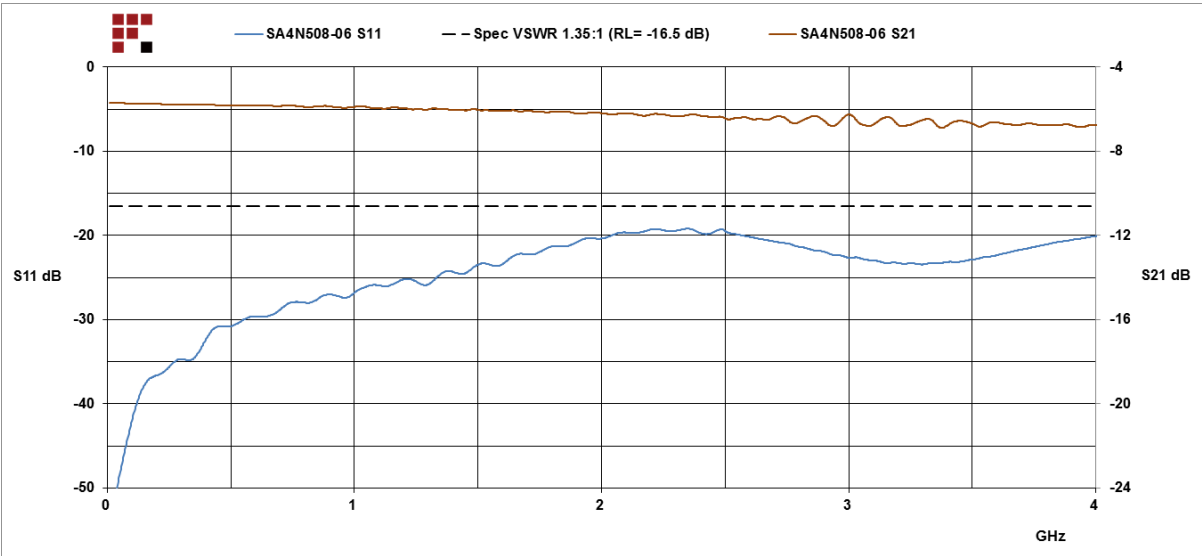
Temperature	
Operating Range	-55 to +125 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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6 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 4 GHz Rated to 50 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.

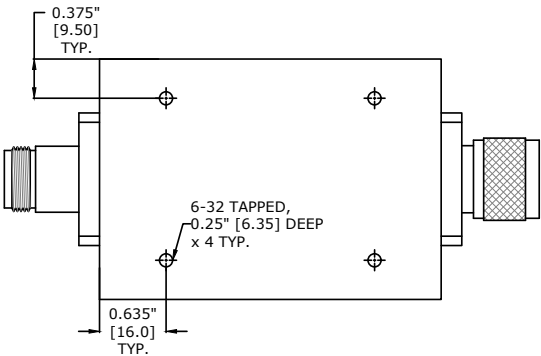
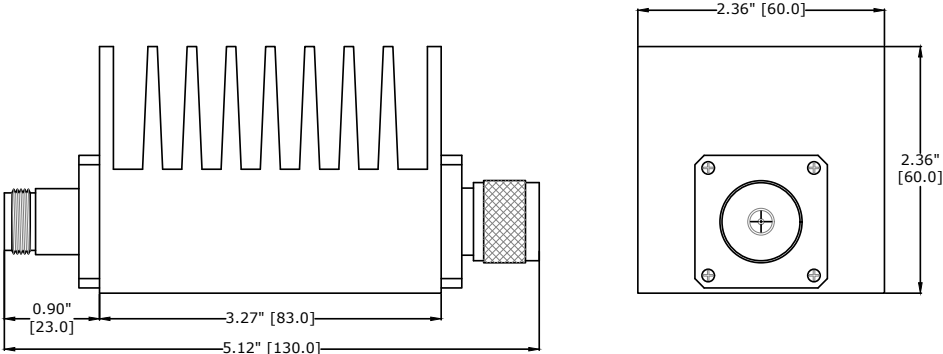
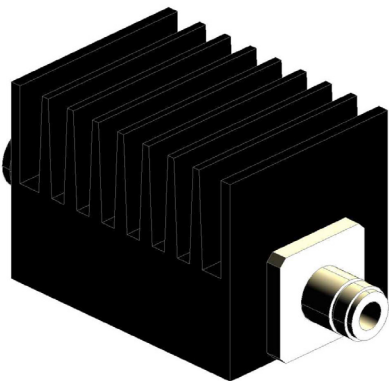
For additional information on this product, please click the following link: [6 dB Fixed Attenuator N Male \(Plug\) to N Female \(Jack\) Up to 4 GHz Rated to 50 Watts, Heatsink Body, 1.35 VSWR SA4N508-06](https://www.fairviewmicrowave.com/6db-fixed-attenuator-n-male-n-female-50-watts-sa4n508-06-p.aspx)

URL: <https://www.fairviewmicrowave.com/6db-fixed-attenuator-n-male-n-female-50-watts-sa4n508-06-p.aspx>

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SA4N508-06 CAD Drawing

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BOTTOM VIEW

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		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].			
TITLE	DWG NO		CAGE CODE		
	SA4N508-06		3FKR5		
CAD FILE		011415	SHEET	SCALE	N/A
				SIZE	A
					5568