SA8N50-10

Features

- Bidirectional
- DC to 8.5 GHz Frequency Range
- Attenuation 10±0.75 dB

Applications

Instrumentation

· Precision measurements

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 SA8N50-10 is a 10 dB Fixed Attenuator that operates from DC to 8.5 GHz and is rated to 50 Watts. The versatile coaxial package uses type N male to type N female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		8.5	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		0.75		dB
VSWR			1.3:1	
Input Power, CW			50	Watts
rated at +25°C, derated linearly to 5W	at +125°C			
Input Power, Peak			5	kWatts
5µs pulse, 0.5% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 4	4 to 8.5				GHz
VSWR, Max	1.2:1	1.3:1				

Electrical Specification Notes:

Values at +25°C, sea level.

- Max Power 50 Watts (CW)VSWR < 1.3:1
- Prototyping and characterization
- Production systems



SA8N50-10

Mechanical Specifications

Size Length Width/Diameter Height Weight Body Material and Plating

4.38 in [111.25 mm] 1.62 in [41.15 mm] 0 in [0 mm] 0.506 lbs [229.52 g] Black Aluminum Alloy

Fixed. Bidirectional

Connectorized Module

Configuration

Design Package Style

Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Female		
Connector Specification	MIL-STD-348A	MIL-STD-348A		
Body Material and 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:

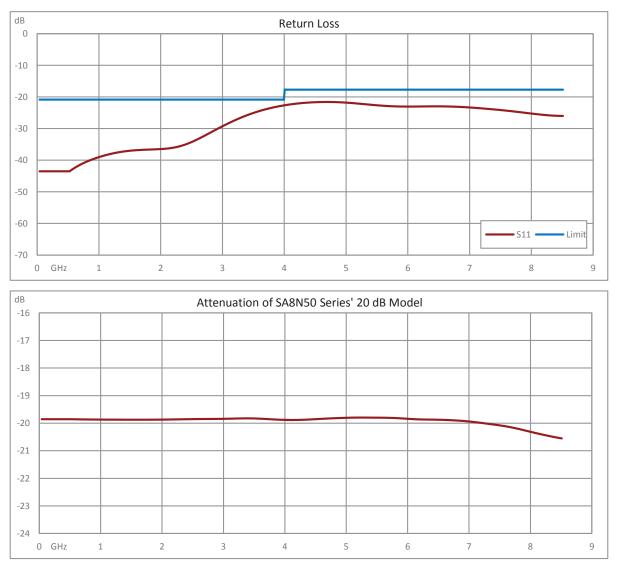






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Typical Performance Data







SA8N50-10

10 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 8.5 GHz Rated to 50 Watts, Black Aluminum Alloy Body, 1.3 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: 10 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 8.5 GHz Rated to 50 Watts, Black Aluminum Alloy Body, 1.3 VSWR SA8N50-10

URL: https://www.fairviewmicrowave.com/10db-fixed-attenuator-n-male-n-female-50-watts-sa8n50-10-p.aspx

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