

30 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Directional Up to 8.5 GHz Rated to 150 Watts, Heatsink Body, 1.35 VSWR

SA8N005-30



Features

- Directional
- DC to 8.5 GHz Frequency Range
- Attenuation 30±0.75 dB
- Max Power 150 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 SA8N005-30 is a 30 dB Fixed Attenuator that operates from DC to 8.5 GHz and is rated to 150 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		8.5	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		0.75		dB
VSWR			1.35:1	
Input Power, CW			150	Watts
derated linearly to 15W at +125°C				
Input Power, Peak			5	kWatts
5µs pulse, 1.5% 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	1.35:1				

Electrical Specification Notes:

Power Sensitivity: 0.005 dB/dB/W max.//Temperature coefficient: 0.0004 dB/dB/°C max.

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Mechanical Specifications

Size

Length	6.8 in [172.72 mm]
Width/Diameter	3.12 in [79.25 mm]
Height	2.04 in [51.82 mm]
Weight	lbs [0 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

Configuration

Design	Fixed, Directional
Package Style	Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Connector Specification	MIL-STD-348A	MIL-STD-348A
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Mechanical Specification Notes:
Connectors mate nondestructively with MIL-PRF-39012 connectors.

Environmental Specifications

Temperature

Operating Range	-55 to +125 deg C
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Environmental Specification Notes:
Designed to meet the environmental requirements of MIL-STD-3933.

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

Plotted and Other Data

Notes:

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Typical Performance Data

30 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Directional Up to 8.5 GHz Rated to 150 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: [30 dB Fixed Attenuator N Male \(Plug\) to N Female \(Jack\) Directional Up to 8.5 GHz Rated to 150 Watts, Heatsink Body, 1.35 VSWR SA8N005-30](https://www.fairviewmicrowave.com/30db-fixed-attenuator-n-male-n-female-150-watts-sa8n005-30-p.aspx)

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