

10 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Directional Up to 12.7 GHz Rated to 350 Watts, Heatsink Body, 1.6 VSWR



SA12N350A-10

Features

- Directional
- DC to 12.7 GHz Frequency Range
- Attenuation 10 dB
- Max Power 350 Watts (CW)
- VSWR < 1.6:1

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 SA12N350A-10 is a 10 dB Fixed Attenuator that operates from DC to 12.7 GHz and is rated to 350 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		12.7	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
VSWR			1.6:1	
Input Power, CW			350	Watts
derated linearly to 10W at +100°C				
Input Power, Peak			5	kWatts
5μs pulse, 3.5% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 8	8 to 12.7				GHz
VSWR, Max	1.3:1	1.6:1				
Attenuation Accuracy, Typ	2					dB

Electrical Specification Notes:

Typical accuracy of +6/-0 dB between 8 to 12.7 GHz.//Power Sensitivity: 0.0001 dB/dB/W max.//Temperature coefficient: 0.0004 dB/dB/°C max.

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Mechanical Specifications

Size	
Length	16.79 in [426.47 mm]
Width/Diameter	2.5 in [63.5 mm]
Height	0 in [0 mm]
Weight	3.6 lbs [1.63 kg]
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
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel	Stainless Steel

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

Environmental Specifications

Temperature	
Operating Range	-55 to +100 deg C

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

Plotted and Other Data

Notes:

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Typical Performance Data

10 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Directional Up to 12.7 GHz Rated to 350 Watts, Heatsink Body, 1.6 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 \(Jack\) Directional Up to 12.7 GHz Rated to 350 Watts, Heatsink Body, 1.6 VSWR SA12N350A-10](https://www.fairviewmicrowave.com/10db-fixed-attenuator-n-male-n-female-350-watts-sa12n350a-10-p.aspx)

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