

# **30 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 10 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 varieties and ships them same day. The SA6N10W-30 is a 30 dB Fixed Attenuator that operates from DC to 6 GHz and is rated to 10 Watts. The versatile coaxial package uses type N male to type 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		6	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		±1		dB
VSWR			1.2:1	
Input Power, CW			10	Watts
rated at +25°C				

Electrical Specification Notes: Values at +25°C, sea level.

### **Mechanical Specifications**

Size Length Width/Diameter Weight Body Material and Plating

2.62 in [66.55 mm] 0.83 in [21.08 mm] 0.15 lbs [68.04 g] Black Anodized Aluminum Heatsink

#### Configuration

Design Package Style Fixed Connectorized Module

#### Connectors

Description	Description Connector 1	
Туре	N Male	N Female
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material & Plating	Passivated Stainless Steel	Passivated Stainless Steel



**SA6N10W-30** 

**DATA SHEET** 

# Features:

- DC to 6 GHz Frequency Range
- Attenuation 30±1 dB
- Max Power 10 Watts (CW)
- VSWR < 1.2:1

# **Applications:**

- Instrumentation
- Precision measurements
- Prototyping and characterization
- Production systems

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## **Environmental Specifications**

**Temperature** Operating Range

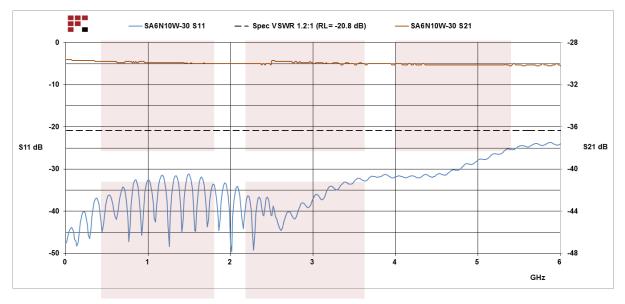
-55 to +125 deg C

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

### **Plotted and Other Data**

Notes:

Typical Performance Data



30 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 10 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.

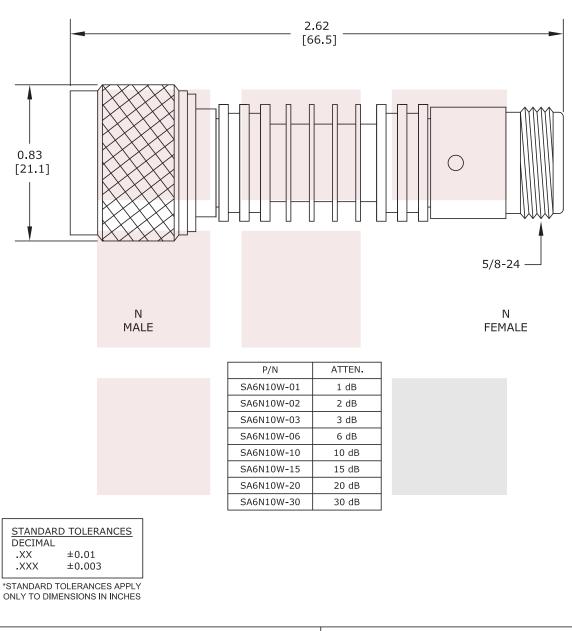
For additional information on this product, please click the following link: 30 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 10 Watts With Black Aluminum Heatsink Body SA6N10W-30

URL: https://www.fairviewmicrowave.com/30db-fixed-attenuator-n-male-n-female-10-watts-sa6n10w-30-p.aspx

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FAIRVIEW MICROWAVE INC.	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 30 dB Fixed Attenuator N Male To N Female Up To 6 GHz Rated To 10 Watts With Black Aluminum Heatsink Body	DWG NO SA6N10W			CAGE CODE 3FKR5			
	CAD FILE 0329	6 SHEET	SCAL	E N/A	SIZE A	150	

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