

# 2 dB Fixed Attenuator N Male To N Female Up To 3 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 selections and ships them same day. The SA3N10W-02 is a 2 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 10 Watts. The versatile coaxial package uses N male to 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	Мах	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		2		dB
Attenuation Accuracy		±0.4		dB
VSWR			1.2:1	
Passive Intermodulation			-100	dBc
Input Power, CW derated linearly to 1W	@125°C		10	Watts
Input Power, Peak 5µs pulse, 1.25% duty	/ cycle		1	KWatts

Electrical Specification Notes:

Passive intermodulation specified at 910 MHz with two input signals at 935MHz and 960MHz with average carrier power levels of +33dBm each.

## **Mechanical Specifications**

Size Length Width/Diameter Weight Body Material and Plating

### Configuration

Design Package Style 3.27 in [83.06 mm] 1.5 in [38.1 mm] 0.265 lbs [120.2 g] Black Anodized Aluminum Heatsink

Fixed, Bidirectional Connectorized

# SA3N10W-02 DATA SHEET



# Features:

- Bidirectional
- DC to 3 GHz Frequency Range
- Attenuation 2±0.4 dB
- Max Power 10 Watts (CW)
- VSWR < 1.2:1

# **Applications:**

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

Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013 Tel: 1-800-715-4396 / (972) 649-6678 Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com





#### Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Female		
Connection Method	Standard	Standard		
Polarity	Standard	Standard		
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold		
Outer Conductor Material & Plating	Brass, Nickel	Brass, Nickel		
Body Material & Plating	Brass, Nickel	Brass, Nickel		

### Environmental Specifications Temperature

Temperature		
Operating Range	-55 to	+125 deg C

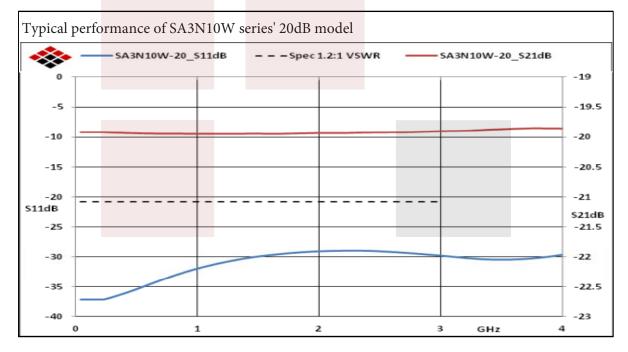
### Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant	Yes	
REACH Compliant	12/17/2015	

### **Plotted and Other Data**

Notes:

Typical Performance Data



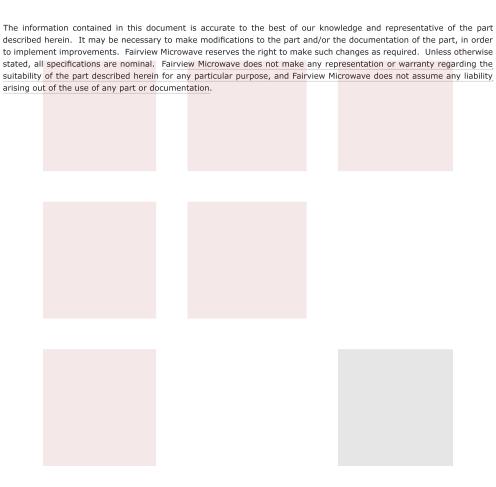




2 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 10 Watts With Black Aluminum Heatsink Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

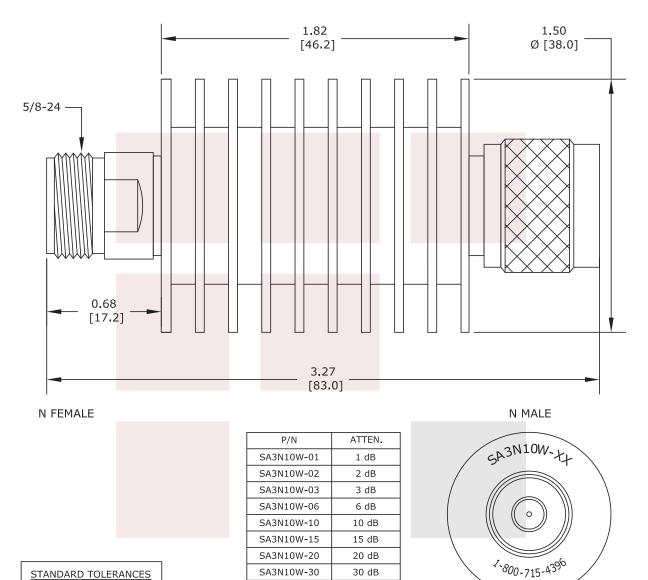
For additional information on this product, please click the following link: 2 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 10 Watts With Black Aluminum Heatsink Body SA3N10W-02

URL: http://www.fairviewmicrowave.com/2db-fixed-attenuator-n-male-n-female-10-watts-sa3n10w-02-p.aspx









STANDARD TOLERANCES DIMENSIONS IN INCHES AND TOLERANCE ±0.08%

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].					
2 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 10 Watts With Black Aluminum Heatsink Body	DWG NO SA3N10W			CAGE CODE 3FKR5		
	CAD FILE 032216	SHEET	SCALE	E N/A	SIZE A	3045

30 dB

40 dB

LABEL -

SA3N10W-30

SA3N10W-40

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