

# **3 dB Fixed Attenuator N Male To N Female** Directional Up To 8 GHz Rated To 150 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 SA8N150-03 is a 3 dB Fixed Attenuator that operates from DC to 8 GHz and is rated to 150 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	Мах	Units
Frequency Range	DC		8	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
VSWR			1.5:1	
Input Power, CW derated linearly to 15W at +125°C			150	Watts
Input Power, Peak 5µs pulse, 0.1% duty	cycle		2.5	KWatts

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 2	2 to 4	4 to 6	6 to 8		GHz
VSWR, Max	1.2:1	1.3:1	1.4:1	1.5:1		
Atten Accuracy, Ty	p ±0.5	±0.75	±0.75	±1.25		dB

### **Mechanical Specifications**

Size Length Width/Diameter Height Weight Body Material and Plating

### Configuration

Design Package Style 6.39 in [162.31 mm] 5.8 in [147.32 mm] 4.21 in [106.93 mm] 4.2355 lbs [1.92 Kg] Black Anodized Aluminum Heatsink

Fixed, Directional Connectorized Module

# SA8N150-03 DATA SHEET



## Features:

- Directional
- DC to 8 GHz Frequency Range
- Attenuation 3±1.25 dB
- Max Power 150 Watts (CW)
- VSWR < 1.5:1

# **Applications:**

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

Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 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		
Connector Spec.	MIL-STD-348	MIL-STD-348		
Contact Material & Plating	Beryllium Copper, Silver	Beryllium Copper, Silver		
Body Material & Plating	Stainless Steel, Silver	Stainless Steel, Silver		

### Mechanical Specification Notes:

Connector interface in accordance with MIL-STD-348 and MIL-PRF-39012

## **Environmental Specifications**

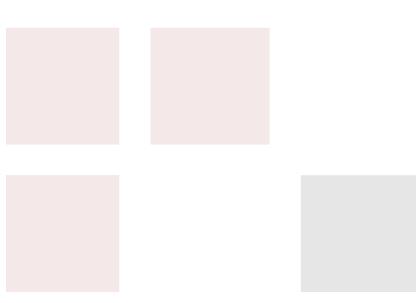
Temperature Operating Range

-55 to +125 deg C

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

# **Plotted and Other Data**

Notes:

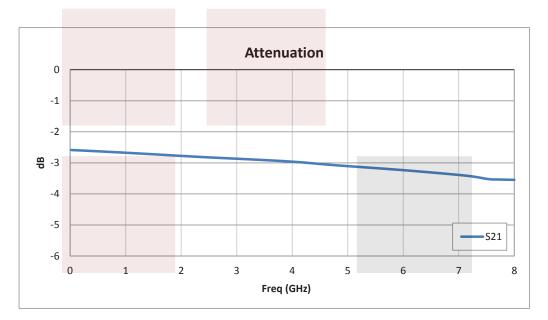






### **Typical Performance Data**





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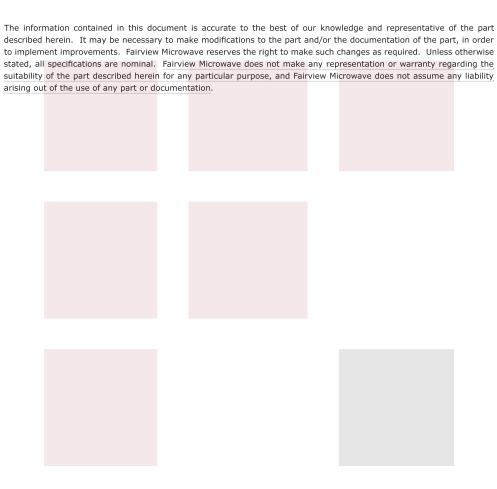




3 dB Fixed Attenuator N Male To N Female Directional Up To 8 GHz Rated To 150 Watts With Black Aluminum Heatsink Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: 3 dB Fixed Attenuator N Male To N Female Directional Up To 8 GHz Rated To 150 Watts With Black Aluminum Heatsink Body SA8N150-03

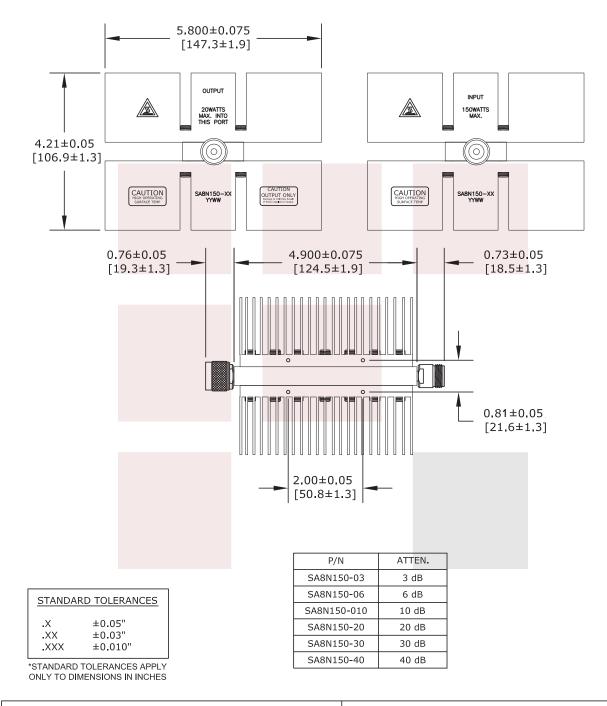
URL: https://www.fairviewmicrowave.com/3db-fixed-attenuator-n-male-n-female-150-watts-sa8n150-03-p.aspx



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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].					
3 dB Fixed Attenuator N Male To N Female Directional Up To 8 GHz Rated To 150 Watts With Black Aluminum Heatsink Body	DWG NO SA8N150			CAGE CODE 3FKR5		
	CAD FILE 031616	SHEET	SCAL	E N/A	SIZE A	3045

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