

# 40 dB Fixed Attenuator N Male to N Female Directional Up to 8.5 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 SA8N007-40 is a 40 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 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		8.5	GHz
Impedance		50		Ohms
Nominal Attenuation		40		dB
VSWR			1.5:1	
Input Power, CW			150	Watts
Input Power, Peak 5µs pulse, 1.5% duty	cycle		5	kWatts
	cycle			

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 4	4 to 8.5				GHz
Atten Accuracy, Typ	±0.5	±1				dB

Electrical Specification Notes: Power Sensitivity: 0.0005 dB/dB/W max. Temperature coefficient: 0.0004 dB/dB/°C max.

### **Mechanical Specifications**

Size Length Width/Diameter Height Weight Body Material and Plating

Configuration

Design

6.8 in [172.72 mm] 2.25 in [57.15 mm] 1.5 in [38.1 mm] 2.0145 lbs [913.76 g] Black Anodized Aluminum Heatsink

Fixed, Directional

# SA8N007-40 DATA SHEET



## Features:

- Directional
- DC to 8.5 GHz Frequency Range
- Attenuation 40±1 dB
- Max Power 150 Watts (CW)
- VSWR < 1.5:1

# **Applications:**

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

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### Package Style

Connectorized Module

#### Connectors

Description	Connector 1	Connector 2
Туре	N Male	N Female
Connector Spec.	MIL-STD-348A	MIL-STD-348A
Contact Material & Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Body Material & 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 +100 deg C

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:

40 dB Fixed Attenuator N Male to N Female Directional Up to 8.5 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.

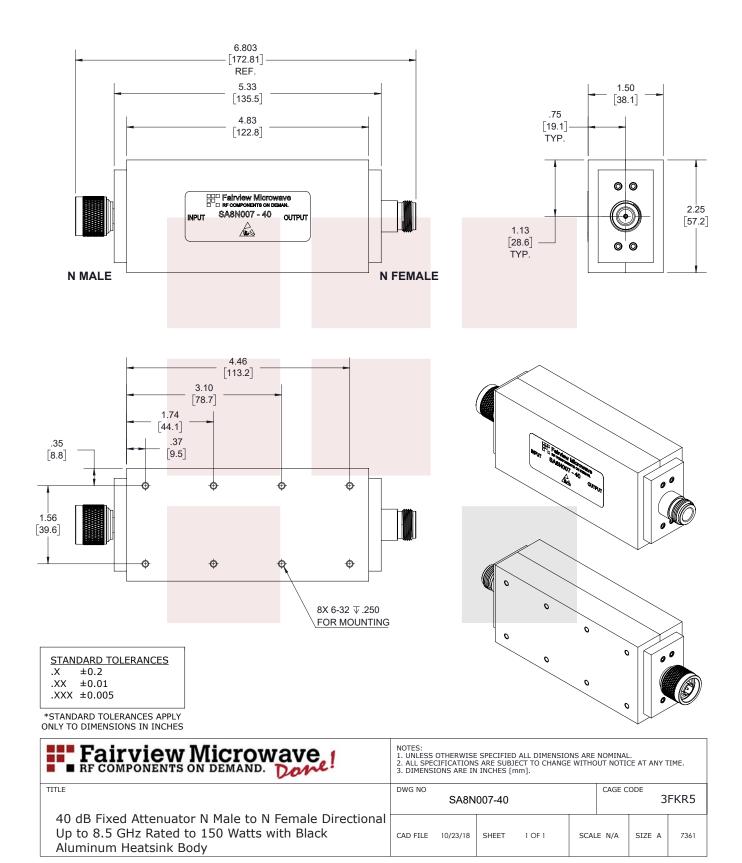
For additional information on this product, please click the following link: 40 dB Fixed Attenuator N Male to N Female Directional Up to 8.5 GHz Rated to 150 Watts with Black Aluminum Heatsink Body SA8N007-40

URL: https://www.fairviewmicrowave.com/40db-fixed-attenuator-n-male-n-female-150-watts-sa8n007-40-p.aspx

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