40 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Directional Up to 18 GHz Rated to 100 Watts, Heatsink Body, 1.35 VSWR

SA18N100-40

Features

- Directional
- DC to 18 GHz Frequency Range
- Attenuation 40dB Typical

Applications

Instrumentation

· Precision measurements

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 SA18N100-40 is a 40 dB Fixed Attenuator that operates from DC to 18 GHz and is rated to 100 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		18	GHz
Impedance		50		Ohms
Nominal Attenuation		40		dB
Attenuation Accuracy		1.2		dB
VSWR			1.35:1	
Input Power, CW			100	Watts
rated at +25°C, derated linearly to 10	W at +125°C			
Input Power, Peak			1	kWatts
5µs pulse, 2.5% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 8	8 to 12.4	12.4 to 18			GHz
VSWR, Max	1.2:1	1.25:1	1.35:1			

Electrical Specification Notes:

Values at +25°C, sea level.



Prototyping and characterization

Max Power 100 Watts (CW)

Production systems

VSWR < 1.35:1

The Right Parts, Right Away

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Mechanical Specifications

Size Length Width/Diameter Height Weight Body Material and Plating

5.61 in [142.49 mm] 2.5 in [63.5 mm] 2.5 in [63.5 mm] 0.9185 lbs [416.62 g] Black Anodized Aluminum Heatsink

Configuration

Design Package Style

Connectors

Description	Connector 1	Connector 2
Туре	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	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature Operating Range

-55 to +125 deg C

Fixed. Directional

Connectorized Module

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



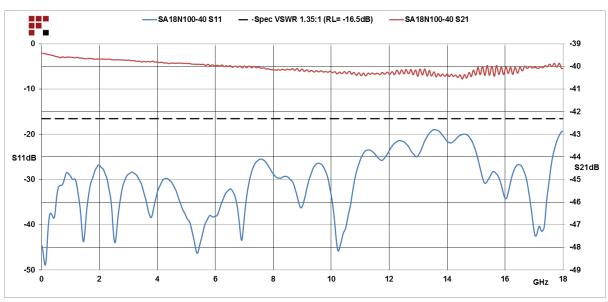


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SA18N100-40

Typical Performance Data



40 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Directional Up to 18 GHz Rated to 100 Watts, Heatsink Body, 1.35 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.

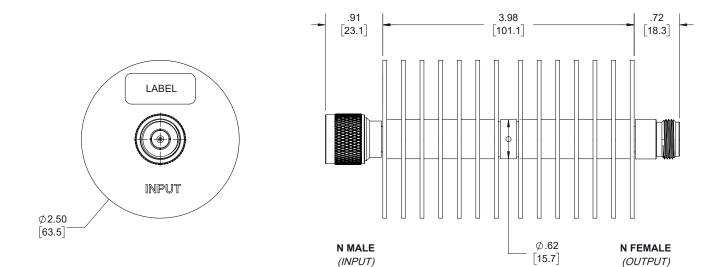
For additional information on this product, please click the following link: 40 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Directional Up to 18 GHz Rated to 100 Watts, Heatsink Body, 1.35 VSWR SA18N100-40

URL: https://www.fairviewmicrowave.com/40db-fixed-attenuator-n-male-n-female-100-watts-sa18n100-40-p.aspx

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SA18N100-40 CAD Drawing

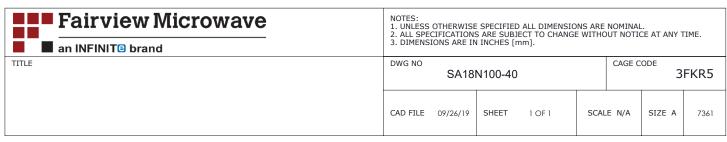
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	FAIRVIEW MICROWAVE
	SA18N100-40
	D/C: YYWW
STAN	IDARD TOLERANCES
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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