

10 dB Fixed Attenuator N Male (Plug) to N Female (Jack)
Up to 3 GHz Rated to 5 Watts, Aluminum Body, 1.2 VSWR



SA3N5W-10

Features

- Bidirectional
- DC to 3 GHz Frequency Range
- Attenuation 10±0.75 dB
- Max Power 5 Watts (CW)
- VSWR < 1.2:1

Applications

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

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 SA3N5W-10 is a 10 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 5 Watts. The versatile coaxial package uses type N male to type N female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		0.75		dB
VSWR			1.2:1	
Passive Intermodulation			-100	dBc
Input Power, CW			5	Watts
derated linearly to 0.5W @125°C				
Input Power, Peak			500	Watts
5µs pulse, 0.5% duty cycle				

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	2.76 in [70.1 mm]
Width/Diameter	0.79 in [20.07 mm]
Height	0 in [0 mm]
Weight	0.1675 lbs [75.98 g]
Body Material and Plating	Aluminum

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Configuration	
Design	Fixed, Bidirectional
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Outer Conductor Material and Plating	Brass, Nickel	Brass, Nickel
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

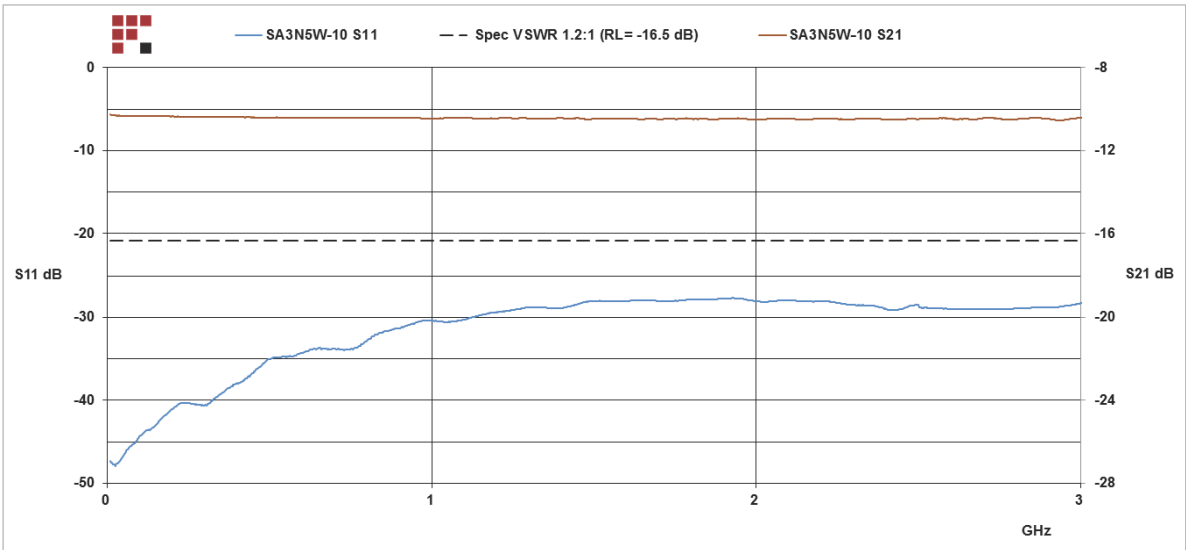
Temperature	
Operating Range	-55 to +125 deg C

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

Plotted and Other Data

Notes:

Typical Performance Data



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10 dB Fixed Attenuator N Male (Plug) to N Female (Jack) Up to 3 GHz Rated to 5 Watts, Aluminum Body, 1.2 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: [10 dB Fixed Attenuator N Male \(Plug\) to N Female \(Jack\) Up to 3 GHz Rated to 5 Watts, Aluminum Body, 1.2 VSWR SA3N5W-10](https://www.fairviewmicrowave.com/10db-fixed-attenuator-n-male-n-female-5-watts-sa3n5w-10-p.aspx)

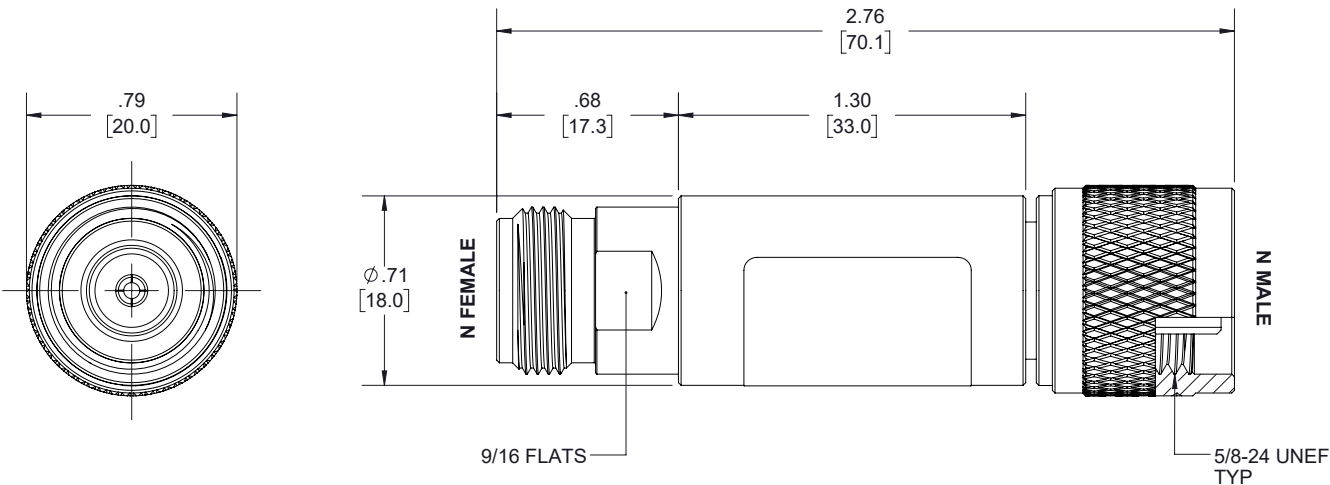
URL: <https://www.fairviewmicrowave.com/10db-fixed-attenuator-n-male-n-female-5-watts-sa3n5w-10-p.aspx>

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SA3N5W-10 CAD Drawing

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR SA3N5W-XX	6/15/2020	S.PONG



LABEL:

FAIRVIEW MICROWAVE
SA3N5W-10
D/C: YYWW

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TITLE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ± 1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
12 [305] < L ≤ 60 [1524] = +2 [51] / -0
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	K.DANG	SA3N5W-10	A

T-Rev.D