

50 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Paint 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 SA3N300-50 is a 50 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 300 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	Typ	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		50		dB
Attenuation Accuracy			±1.45	dB
VSWR			1.45:1	
Input Power, CW			300	Watts
Input Power, Peak			1	KWatts

Mechanical Specifications

Size	
Length	13.9 in [353.06 mm]
Width/Diameter	5.12 in [130.05 mm]
Height	5.51 in [139.95 mm]
Weight	0.52911 lbs [240 g]
Body Material and Plating	Black Anodized Aluminum Heatsink, Paint

Configuration

Design	Fixed
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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Connection Method	Standard	Standard
Polarity	Standard	Standard
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Coupling Nut Material & Plating	Brass, Nickel	
Body Material & Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range -55 to +125 deg C

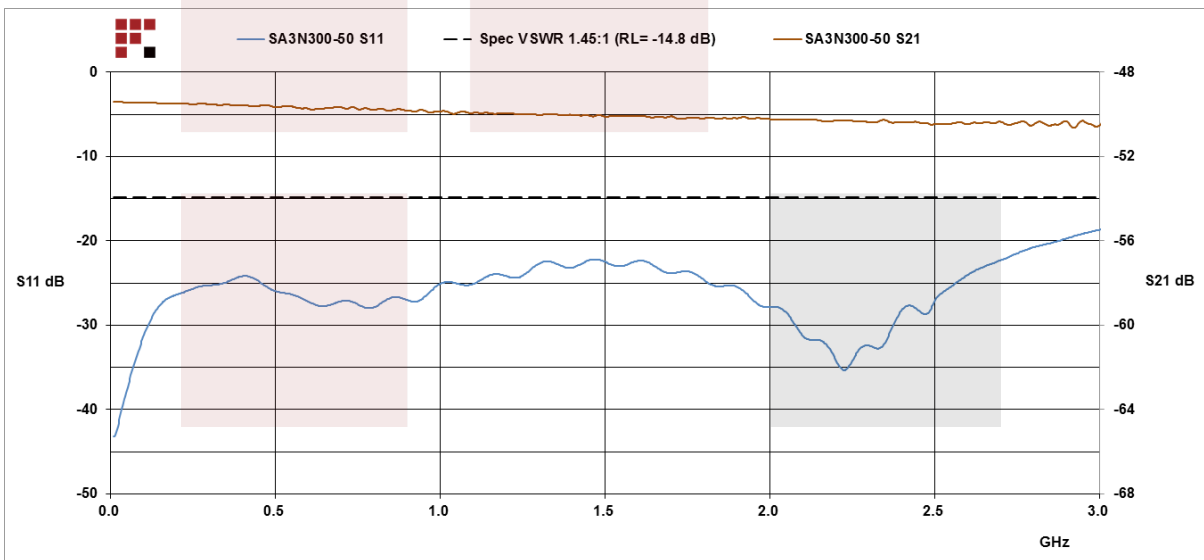
Compliance Certifications (visit www.FairviewMicrowave.com for current document)

RoHS Compliant Yes
 REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data



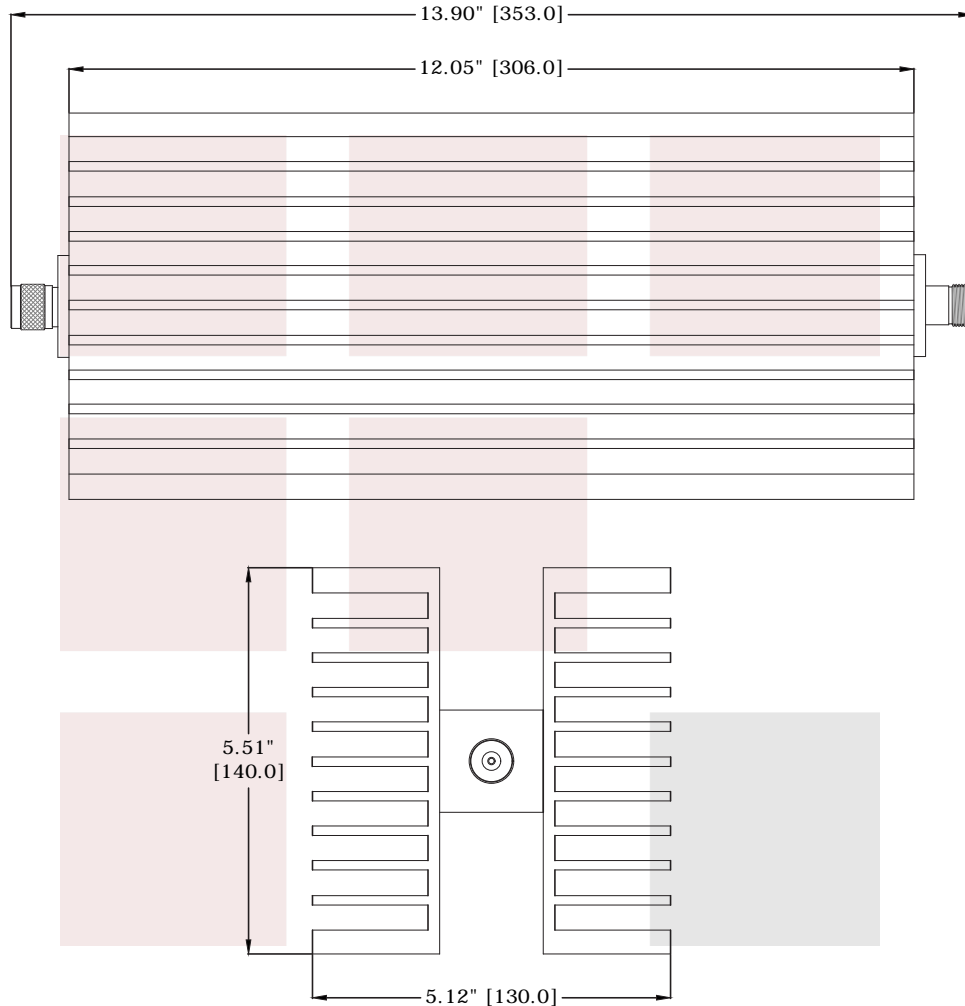
50 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Paint Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [50 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Paint Body SA3N300-50](#)

URL: <http://www.fairviewmicrowave.com/50db-fixed-attenuator-n-male-n-female-300-watts-sa3n300-50-p.aspx>

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TITLE 50 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 300 Watts With Black Aluminum Heatsink Paint Body		DWG NO SA3N300		CAGE CODE 3FKR5	
		CAD FILE 033116	SHEET	SCALE N/A	SIZE A