

SA3N1007-10 DATA SHEET

10 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 100 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 selections and ships them same day. The SA3N1007-10 is a 10 dB Fixed Attenuator that operates from DC to 3 GHz and is rated to 100 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	Тур	Max	Units
Frequency Range	DC		3	GHz
Impedance		50		Ohms
Nominal Attenuation		10		dB
Attenuation Accuracy		±0.6		dB
VSWR			1.4:1	
Passive Intermodulation			-100	dBc
Input Power, CW derated linearly to 10V	V @125°C		100	Watts
Input Power, Peak 5µs pulse, 5% duty cy	cle		10	KWatts

Electrical Specification Notes:

Passive intermodulation specified at 910MHz with two input signals at 935MHz and 960MHz with average carrier power levels of +43dBm each.

Black Anodized Aluminum Heatsink

Mechanical Specifications

Body Material and Plating

 Size

 Length
 9.06 in [230.12 mm]

 Width/Diameter
 3.15 in [80.01 mm]

 Height
 2.36 in [59.94 mm]

 Weight
 3.968 lbs [1.8 Kg]

Configuration

Design Fixed, Bidirectional Package Style Connectorized



Features:

- Bidirectional
- DC to 3 GHz Frequency Range
- Attenuation 10±0.6 dB
- Max Power 100 Watts (CW)
- VSWR < 1.4:1

Applications:

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

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Connectors

Description	Connector 1	Connector 2		
Туре	N Male	N Female		
Contact Material & Plating	Brass, Gold	Beryllium Copper, Gold		
Outer Conductor Material & Plating	Brass, Nickel	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)

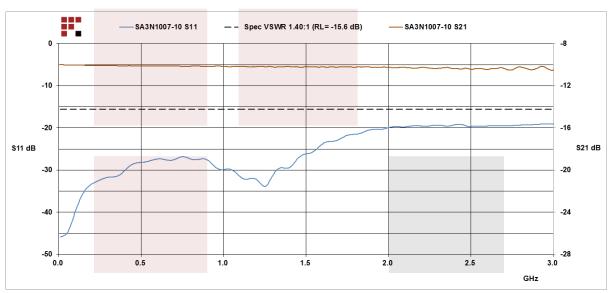
RoHS Compliant Yes

REACH Compliant 12/17/2015

Plotted and Other Data

Notes:

Typical Performance Data







10 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 100 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.

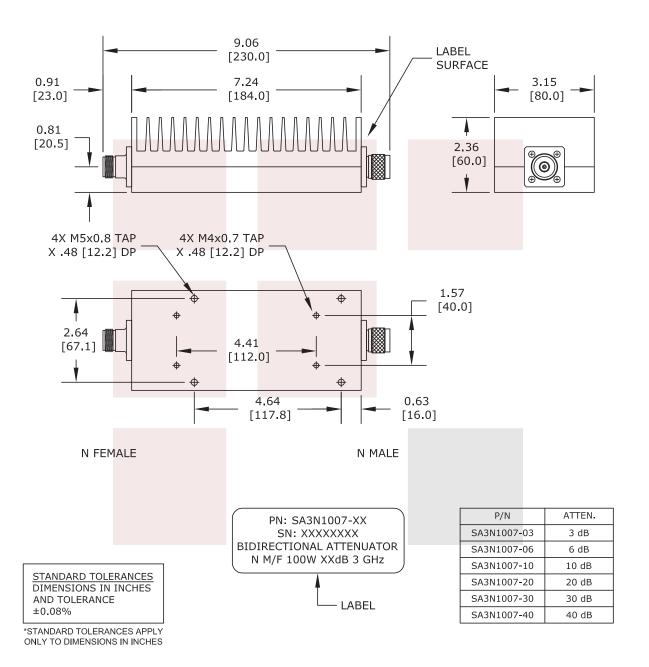
For additional information on this product, please click the following link: 10 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 100 Watts With Black Aluminum Heatsink Body SA3N1007-10

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL: http://www.fairviewmicrowave.com/10db-fixed-attenuator-n-male-n-female-100-watts-sa3n1007-10-p.aspx

described h	nerein. It may be necessar	y to make mod	ifications to the part a	nd/or tl	ne documentation of the par	t, in order
to impleme	ent improvements. Fairview	Microwave rese	erves the right to mak	e such o	changes as required. Unless	otherwise
stated, all	specifications are nominal.	Fairview Micro	wave does not make	any rep	resentation or warranty rega	arding the
suitability o	of the part described hereir	for any particu	ular purpose, and Fair	view Mi	crowave does not assume a	ny liability
arising out	of the use of any part or do	ocumentation.				





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10 dB Fixed Attenuator N Male To N Female Up To 3 GHz Rated To 100 Watts With Black Aluminum Heatsink Body	DWG NO SA3N1007			CAGE CODE 3FKR5		
	CAD FILE 032216	SHEET	SCALE	N/A	SIZE A	3045