



2 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz

RF Fixed Attenuators Technical Data Sheet

PE7094-02

Features

- DC to 18 GHz Frequency Range
- Attenuation 2±0.3 dB
- N Type Male/Female Connectors
- Max Power 2 Watts (CW)
- VSWR < 1.35:1

Applications

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

Description

Pasternack carries a wide range of fixed attenuators with a broad selection of attenuation levels, frequency ranges, and power dissipation ranges. RF microwave attenuators (also known as RF pads) lower the amplitude of a signal (attenuate) a known amount and can be used in a wide variety of applications. These attenuator pads are used when a signal needs to be reduced to protect measurement equipment or other circuitry, to extend the range of power meters and amplifiers, and to impedance match 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 Pasternack carries one of the largest in-stock varieties and ships them same day. The 2 dB Fixed Attenuator PE7094-02 is rated to 2 Watts and operates from DC to 18 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		2		dB
Attenuation Accuracy		0.3		dB
VSWR			1.35:1	
Input Power, CW			2	Watts
Input Power, Peak 5µs pulse, 0.05% duty cycle			500	Watts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz PE7094-02](#)



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Mechanical Specifications

Size

Length	1.76 in [44.7 mm]
Width/Diameter	0.82 in [20.83 mm]
Height	0.82 in [20.83 mm]
Weight	0.15 lbs [68.04 g]
Body Material and Plating	Passivated Stainless Steel

Configuration

Design	Fixed
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Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Connector Specification	MIL-STD-348	MIL-STD-348
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Outer Conductor Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel
Coupling Nut Material and Plating	Passivated Stainless Steel	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range	-65 to +125 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

2 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 18 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/2db-fixed-n-male-n-female-2-watts-attenuator-pe7094-02-p.aspx>

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Technical drawing of a female connector. The drawing shows a cross-section of the component. The top part is a threaded section labeled "N FEMALE". The bottom part is a flange section labeled "N MALE". The overall height of the component is dimensioned as 1.76 [44.7]. The diameter of the flange section is dimensioned as $\varnothing .82$ [20.9].

N MALE

1.76
[44.7]

$$\phi_{.82}[20.9]$$

CABLE LENGTH (L) TOLERANCES:

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

T-Rev.D

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SHEET 1 OF 1

SCALE	N/A
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SIZE	CAGE CODE	DRAWN BY	ITEM NO.
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PE7094-02