PASTERNACK®
THE ENGINEER'S RF SOURCE



30 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 4 GHz

RF Fixed Attenuators Technical Data Sheet PE7421-30

Features

- Bidirectional
- DC to 4 GHz Frequency Range
- Attenuation 30 dB
- Max Power 100 Watts (CW)
- VSWR < 1.2:1

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 30 dB Fixed Attenuator PE7421-30 is rated to 100 Watts and operates from DC to 4 GHz. The versatile coaxial package uses type N male to type 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	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
VSWR			1.2:1	
Input Power, CW derated linearly to 2.5W at +125°C			100	Watts

Mechanical Specifications

Size

Width/Diameter	3 in [76.2 mm]
Weight	0.865 lbs [392.36 g]
Body Material and Plating	Black Anodized Aluminum Heatsink

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: 30 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 4 GHz PE7421-30

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Coupling Nut Material and Plating	Passivated Stainless Steel	
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range	-55 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

30 dB Fixed Attenuator, N Male to N Female Black Anodized Aluminum Heatsink Body Rated to 100 Watts Up to 4 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/30db-fixed-n-male-n-female-100-watts-attenuator-pe7421-30-p.aspx

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PE7421-30 CAD Drawing

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P/N	ATTEN.	FIGURE
PE7421-3	3 dB	1
PE7421-6	6 dB	1
PE7421-10	10 dB	1
PE7421-20	20 dB	1
PE7421-30	30 dB	1
PE7421-40	40 dB	1

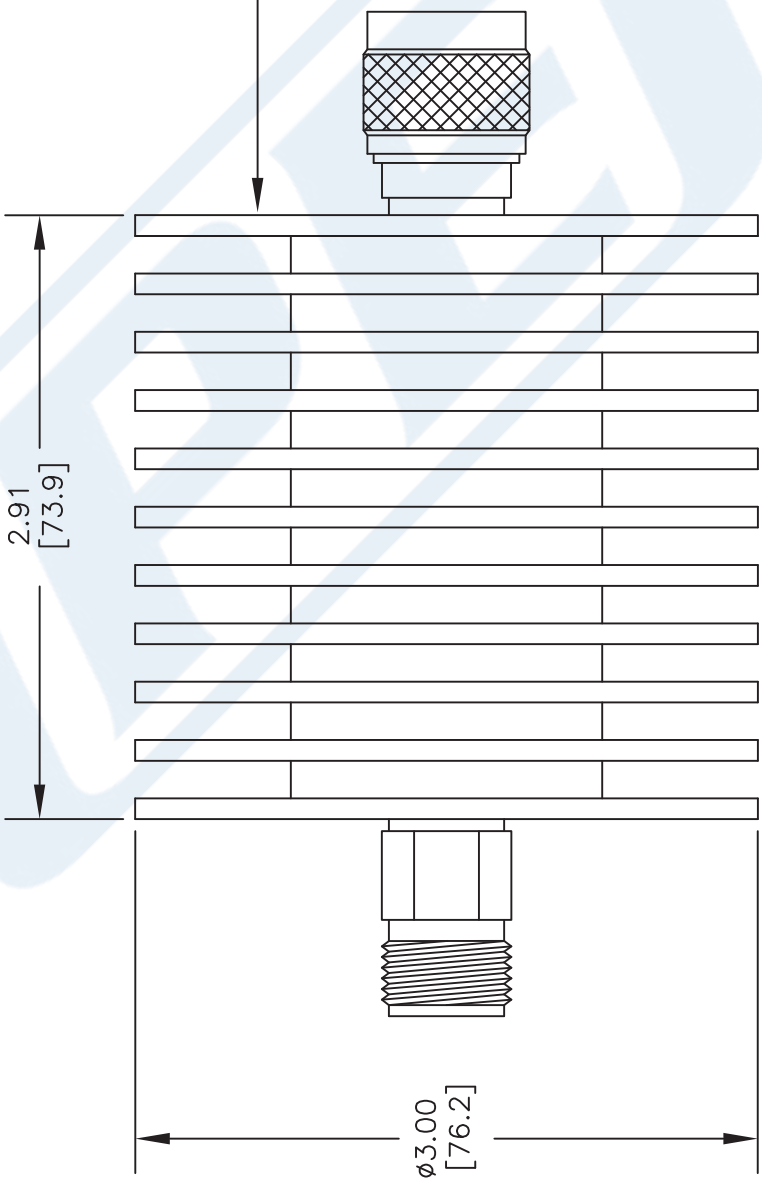


FIGURE 1

STANDARD TOLERANCES

.XX ±0.01
.XXX ±0.003

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE7421

CAD FILE 030116 | SCALE N/A | SIZE A | 3045

FSCM NO. 53919

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