PASTERNACK
an INFINITE brand



30 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 12.4 GHz

Features

- Bidirectional
- DC to 12.4 GHz Frequency Range
- Attenuation 30±0.75 dB
- Max Power 2 Watts (CW)
- VSWR < 1.25:1

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 PE7047-30 is rated to 2 Watts and operates from DC to 12.4 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12.4	GHz
Impedance		50		Ohms
Nominal Attenuation		30		dB
Attenuation Accuracy		0.75		dB
VSWR			1.25:1	
Input Power, CW derated linearly from 2W @ 25°C to 0.5W @ 125°C			2	Watts
Input Power, Peak 5µs pulse, 0.05% duty cycle			250	Watts

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 Passivated Stainless Steel Body Rated to 2 Watts Up to 12.4 GHz PE7047-30

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 4	4 to 8	8 to 12.4			GHz
VSWR, Max	1.15:1	1.2:1	1.25:1			

Mechanical Specifications

Size

Length	1.76 in [44.7 mm]
Width/Diameter	0.8 in [20.32 mm]
Weight	0.1356 lbs [61.51 g]
Body Material and Plating	Passivated Stainless Steel

Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized Module

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
Body Material and Plating	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range	-65 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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RF Fixed Attenuators Technical Data Sheet PE7047-30

30 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 12.4 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-2-watts-attenuator-pe7047-30-p.aspx

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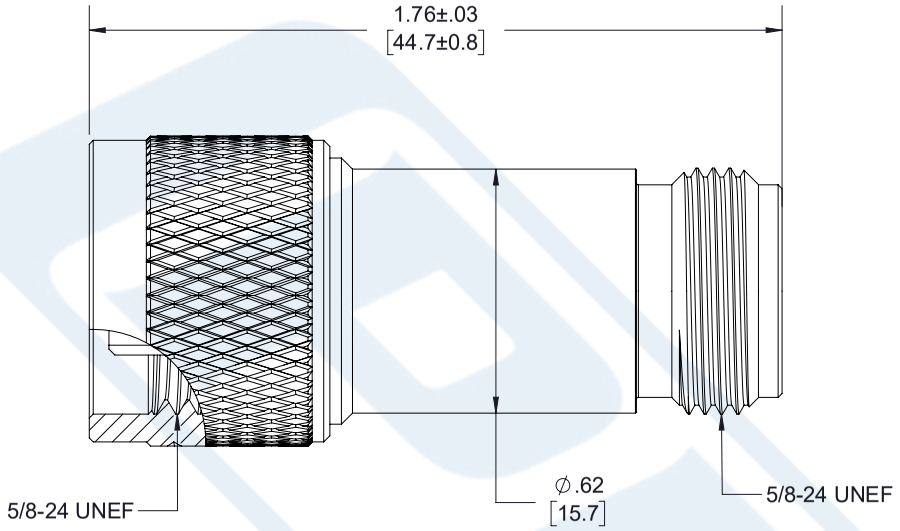
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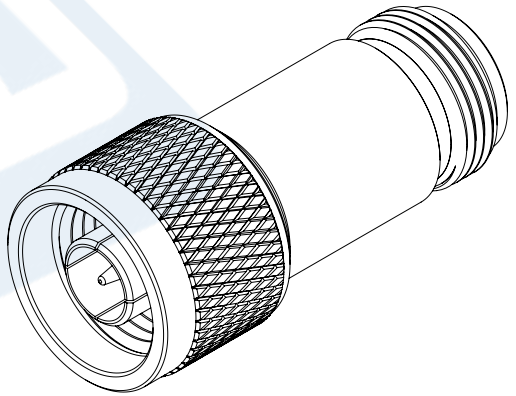
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
K	PE7047-9 02082019	03/11/19	J.GARCIA

PE7047-30 CAD Drawing

30 dB Fixed Attenuator, N Male to N Female Passivated Stainless Steel Body Rated to 2 Watts Up to 12.4 GHz



N MALE **N FEMALE**



LABEL:

PASTERNACK
PE7047-30

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

TOLERANCES:

.X=± .2 [5.08]	FRACTIONS ± 1/32
.XX=± .01 [.25]	ANGLES ± 1°
.XXX=± .005 [.13]	

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE	DRAWN BY	PART NUMBER	REV
A	53919	K.DANG	PE7047-30	K