



6dB DC Bias Attenuator, SMA Male to SMA Female Brass
Tri-Metal Body Rated to 2 Watts from 100MHz to 3 GHz

DC Bias Attenuators Technical Data Sheet

PE7447-6

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 PE7447-6 is a 6 dB DC passing Fixed Attenuator that operates from 100 MHz to 3 GHz and is rated to 2 Watts and 0.1A DC current. PE7447-6 would only attenuate RF signal without reducing the DC current passing through the part. The versatile coaxial package uses SMA male to SMA female connectors.

- 0.1GHz to 3GHz Frequency Range
- Input Power 2 Watts (CW)
- 50ohm impedance
- Attenuation 6±2.5dB
- DC Bias Current 100mA Max
- VSWR < 1.35:1

Configuration

Design	DC Bias Attenuator
Connector 1	SMA Male
Connector 2	SMA Female
Body Material and Plating	Brass, Tri-Metal

Electrical Specifications

Frequency Range, GHz	0.1 to 3
Impedance, Ohms	50
Attenuation Value, dB	6
Attenuation Accuracy, dB	±2.5
Maximum Input Power, Watts	2
Maximum VSWR	1.35:1
Maximum DC Bias Voltage, Volts	100
Maximum DC Bias Current, A	0.1

Mechanical Specifications

Size

Length, in [mm]	1.22 [30.99]
Width, in [mm]	0.315 [8]
Height, in [mm]	0.315 [8]
Weight, lbs [g]	0.013 [5.9]

Connector 1

Type	SMA Male
Contact Material and Plating	Beryllium Copper, Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [6dB DC Bias Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 2 Watts from 100MHz to 3 GHz PE7447-6](#)



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Outer Conductor Material and Plating

Beryllium Copper, Gold

Connector 2

Type

SMA Female

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

Plotted and Other Data

Notes:

Values at 25 °C, sea level

Attenuation accuracy is Typical

6dB DC Bias Attenuator, SMA Male to SMA Female Brass Tri-Metal Body Rated to 2 Watts from 100MHz to 3 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% availability and are part of the broadest selection in the industry.

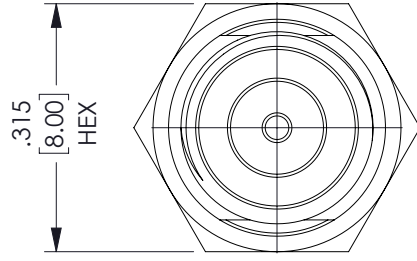
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URL: <https://www.pasternack.com/6db-dc-bias-sma-male-sma-female-2-watts-attenuator-pe7447-6-p.aspx>

PE7447-6 CAD Drawing

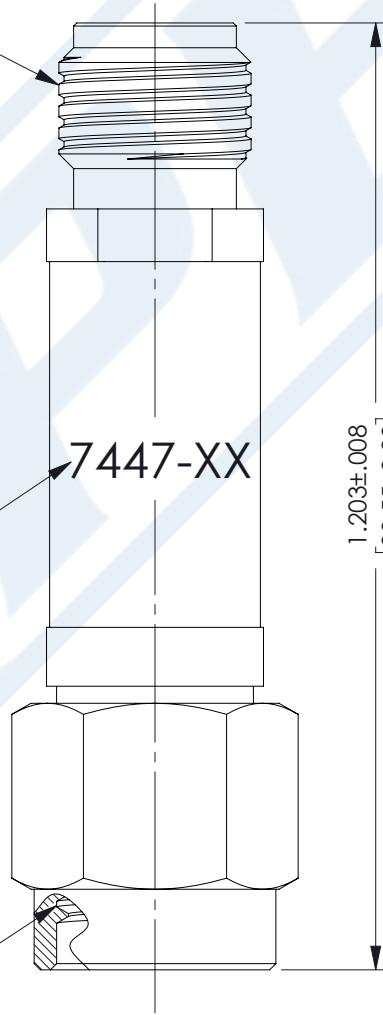
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	08/08/2022	SPONG



1/4-36 UNS-2A

SEE NOTE 1.



1.203±.008
[30.55±0.20]

NOTES:

- ITEM IS MARKED WITH ITEM NUMBER WHERE SHOWN.
"-XX" DENOTES THE ATTENUATION VALUE,
EXAMPLE: 7447-3 = 3dB, 7447-10 = 10dB, ETC.

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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS
.XX = ±.02 [.51] ±.1/32
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

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

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE N/A

REV A



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SIZE A CAGE CODE 53919 DRAWN BY AKRESOWSK ITEM NO. PE7447