



3 dB Fixed Attenuator, 2.2-5 Male to 2.2-5 Female
Brass Body Rated to 10 Watts, DC to 6 GHz

RF Fixed Attenuators Technical Data Sheet

PE7493-3

Features

- DC to 6 GHz Frequency Range
- 2.2-5 Connectorized Design
- Attenuation 3 dB $\pm$ 1 dB
- Max Power 10 Watts (CW)
- Max VSWR of 1.25:1

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems
- 5G Cellular bands

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 3 dB Fixed Attenuator PE7493-3 is rated to 10 Watts and operates from DC to 6 GHz.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
Nominal Attenuation		3		dB
Attenuation Accuracy			± 1	dB
VSWR			1.25:1	
Input Power, CW			10	Watts
Input Power, Peak 8% Duty Cycle, 20us PW			100	Watts

Mechanical Specifications

Size	
Length	2.36 in [59.94 mm]
Width/Diameter	0.79 in [20.07 mm]
Height	0.79 in [20.07 mm]
Weight	0.07 lbs [31.75 g]
Body Material and Plating	Brass, Copper-Tin-Zinc Alloy

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3 dB Fixed Attenuator, 2.2-5 Male to 2.2-5 Female Brass Body Rated to 10 Watts, DC to 6 GHz PE7493-3](#)



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Configuration

Design	Fixed, Bidirectional
Design Type	Standard
Package Style	Connectorized

Connectors

Description	Connector 1	Connector 2
Type	2.2-5 Male	2.2-5 Female
Contact Material and Plating	Beryllium Copper, Silver	Beryllium Copper, Silver
Dielectric Type	PTFE	PTFE
Body Material and Plating	Brass, Tri-Metal	Brass, Tri-Metal

Environmental Specifications

Temperature

Operating Range	-40 to +75 deg C
Storage Range	-50 to +85 deg C

Humidity	<95%
Shock	IEC 60068-2-27
Vibration	IEC 60068-2-6-Fc
Altitude	<5000m
Thermal Shock	IEC 60068 -2-14-Na

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

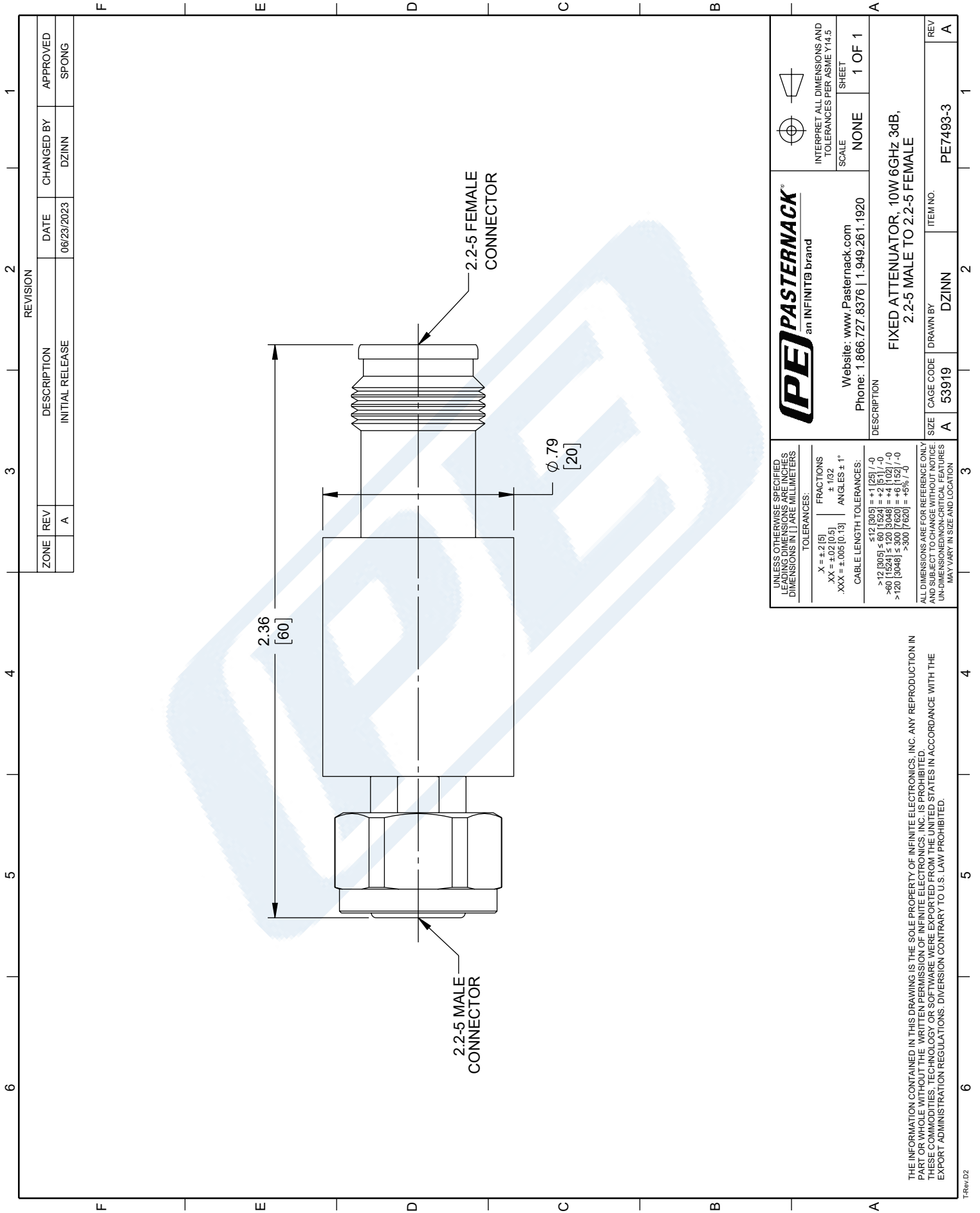
3 dB Fixed Attenuator, 2.2-5 Male to 2.2-5 Female Brass Body Rated to 10 Watts, DC to 6 GHz from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/3db-fixed-10-watts-attenuator-pe7493-3-p.aspx>

PE7493-3 CAD Drawing

3 dB Fixed Attenuator, 2.2-5 Male to 2.2-5 Female Brass
Body Rated to 10 Watts, DC to 6 GHz



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	06/23/2023	DZINN	SPONG

PE PASTERNAK an INFINITI® brand Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	DESCRIPTION FIXED ATTENUATOR, 10W 6GHz 3dB, 2.2-5 MALE TO 2.2-5 FEMALE	REV A
	SIZE: A CAGE CODE: 53919 DRAWN BY: DZINN ITEM NO.: PE7493-3		

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE MILLIMETERS.	
TOLERANCES: X = ± 2 [5] XX = ± 0.02 [0.5] XXX = ± 0.05 [0.13]	FRACTIONS ± 1/32 ANGLES ± 1°
CABLE LENGTH TOLERANCES: ≤ 12 [305] = +1 [25] / -0 > 12 [305] ≤ 60 [1524] = +2 [50] / -0 > 60 [1524] ≤ 150 [3810] = +3 [75] / -0 > 150 [3810] ≤ 300 [7620] = +6 [152] / -0 > 300 [7620] = +5% / -0	
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNLESS OTHERWISE NOTED, DIMENSIONS MAY VARY IN SIZE AND LOCATION.	

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