

1 dB Fixed Attenuator, 3.5mm Male to 3.5mm Female
Aluminum Body Rated to 2 Watts Up to 26.5 GHz



PE7471-1

Features

- DC to 26.5 GHz Range
- Attenuation 1 + 1.0 dB
- 2 Watts Average Input Power
- VSWR <1.45:1
- Functional up to 33 GHz

Applications

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

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 attenuators 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 1 dB Fixed Attenuators PE7471-1 is rated to 2 Watts and operates from DC to 26.5 GHz. The versatile coaxial package uses 3.5mm male to 3.5mm female connectors.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
Impedance		50		Ohms
Nominal Attenuation		1		dB
VSWR			1.45:1	
Input Power, CW			2	Watts
Derated linearly to 0.5W @ 125°C				
Input Power, Peak			500	Watts
5µs pulse, 0.4% duty cycle				

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5					GHz
Attenuation Accuracy, Typ	1					dB

Mechanical Specifications

Size

- Length 1.437 in [36.5 mm]
- Width/Diameter 0.394 in [10.01 mm]
- Height 0.394 in [10.01 mm]

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Weight	0.03 lbs [13.61 g]
Body Material and Plating	Aluminum
Configuration	
Design	Fixed

Connectors

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Body Material and Plating	Stainless Steel	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:

Typical Performance Data

1 dB Fixed Attenuator, 3.5mm Male to 3.5mm Female Aluminum Body Rated to 2 Watts Up to 26.5 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.

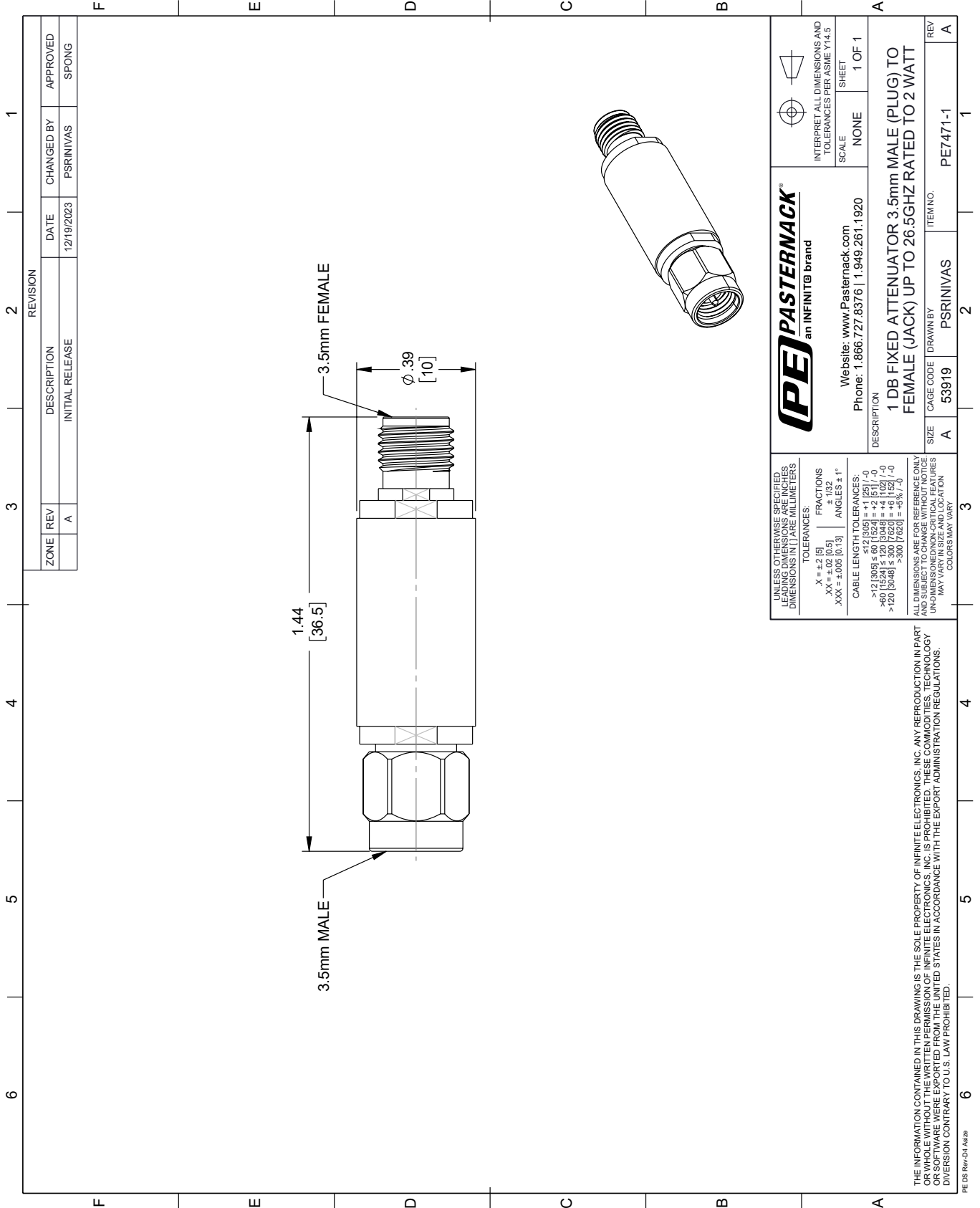
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 dB Fixed Attenuator, 3.5mm Male to 3.5mm Female Aluminum Body Rated to 2 Watts Up to 26.5 GHz PE7471-1](#)

URL: <https://www.pasternack.com/1db-fixed-3.5mm-male-3.5mm-female-2-watts-attenuator-pe7471-1-p.aspx>

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PE7471-1 CAD Drawing

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ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
		A	INITIAL RELEASE	12/19/2023	PSRINIVAS	SPONG

PASTERNAK an INFINIT® 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
UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS IN [] ARE MILLIMETERS.		TOLERANCES: .X = +.2 [5] FRACTIONS ± 1/32 .XX = ±.02 [0.5] ANGLES ± 1° .XXX = ±.005 [0.13]		CAGE CODE: PSRINIVAS DRAWN BY: PSRINIVAS ITEM NO.: PE7471-1 REV: A
ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS IN [] ARE MILLIMETERS. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS IN [] ARE MILLIMETERS.		CABLE LENGTH TOLERANCES: <12 [305] ≤ 60 [1524] = +1 [25] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +5% / -0		DESCRIPTION: 1 DB FIXED ATTENUATOR 3.5mm MALE (PLUG) TO FEMALE (JACK) UP TO 26.5GHZ RATED TO 2 WATT SIZE: A CAGE CODE: PSRINIVAS DRAWN BY: PSRINIVAS ITEM NO.: PE7471-1 REV: A

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