PASTERNACK
an INFINITE brand



2 dB Fixed Attenuator, TNC Male to TNC Female Brass Nickel Body Rated to 2 Watts Up to 2 GHz

RF Fixed Attenuators Technical Data Sheet PE7003-2

Features

- Bidirectional
- DC to 2 GHz Frequency Range
- Attenuation 2±0.3 dB
- Max Power 2 Watts (CW)
- VSWR < 1.15:1

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 2 dB Fixed Attenuator PE7003-2 is rated to 2 Watts and operates from DC to 2 GHz. The versatile coaxial package uses TNC male to TNC female connectors and is also REACH and RoHS compliant.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2	GHz
Impedance		50		Ohms
Nominal Attenuation		2		dB
Attenuation Accuracy		0.3		dB
VSWR			1.15:1	
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: 2 dB Fixed Attenuator, TNC Male to TNC Female Brass Nickel Body Rated to 2 Watts Up to 2 GHz PE7003-2

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

Size

Length	1.84 in [46.74 mm]
Width/Diameter	0.59 in [14.99 mm]
Weight	0.072 lbs [32.66 g]
Body Material and Plating	Brass, Nickel

Configuration

Design	Fixed, Bidirectional
Package Style	Connectorized Module

Connectors

Description	Connector 1	Connector 2
Type	TNC Male	TNC Female
Contact Material and Plating	Brass, Gold	Beryllium Copper, Gold
Coupling Nut Material and Plating	Brass, Nickel	
Body Material and Plating	Brass, Nickel	Brass, Nickel

Environmental Specifications

Temperature

Operating Range	-65 to +125 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2 dB Fixed Attenuator, TNC Male to TNC Female Brass Nickel Body Rated to 2 Watts Up to 2 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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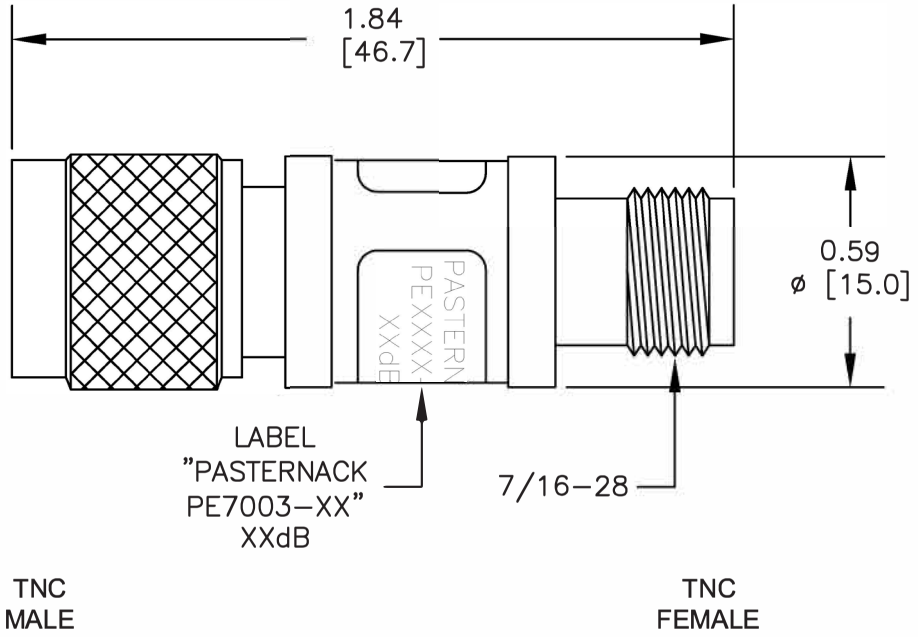
URL: https://www.pasternack.com/2db-fixed-tnc-female-tnc-male-1-watt-attenuator-pe7003-2-p.aspx

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PE7003-2 CAD Drawing

2 dB Fixed Attenuator, TNC Male to TNC Female Brass
Nickel Body Rated to 2 Watts Up to 2 GHz



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

PASTERNACK
THE ENGINEER'S RF SOURCE
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DWG TITLE

PE7003

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].

FSCM NO. 53919	CAD FILE 092216	SCALE N/A	SIZE A	2233