

7 dB Fixed Attenuator N-Type Male to N-Type Female  
Passivated Stainless Steel Body Rated 2 Watt DC to 18GHz



**PE7612-7**

**Features**

- DC to 18 GHz Frequency Range
- N-Type Connectorized Design
- Attenuation 7 dB  $\pm$ 0.8 dB
- Max Power 2 Watts (CW)
- Max VSWR of 1.3:1

**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 7 dB Fixed Attenuator PE7612-7 is rated to 2 Watts and operates from DC to 18 GHz. The versatile coaxial package uses type N male to type N female connectors and is also REACH compliant.

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Nominal Attenuation		7		dB
Attenuation Accuracy			$\pm$ 0.8	dB
VSWR			1.3:1	
Input Power, CW			2	Watts

2W average power from -55°C to 25°C derated linearly to 0.2W at 125°C

**Mechanical Specifications**

**Size**

Length	2.2 in [55.88 mm]
Width/Diameter	0.8 in [20.32 mm]
Height	0.8 in [20.32 mm]
Weight	0.1 lbs [45.36 g]
Body Material and Plating	Passivated Stainless Steel

**Configuration**

Design	Fixed, Bidirectional
Package Style	Connectorized

7 dB Fixed Attenuator N-Type Male to N-Type Female  
Passivated Stainless Steel Body Rated 2 Watt DC to 18GHz



**PE7612-7**

**Connectors**

Description	Connector 1	Connector 2
Type	N Male	N Female
Contact Material and Plating	Beryllium Copper, Gold	Beryllium Copper, Gold
Dielectric Type	Teflon	Teflon

**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**

7 dB Fixed Attenuator N-Type Male to N-Type Female Passivated Stainless Steel Body Rated 2 Watt DC to 18GHz 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.

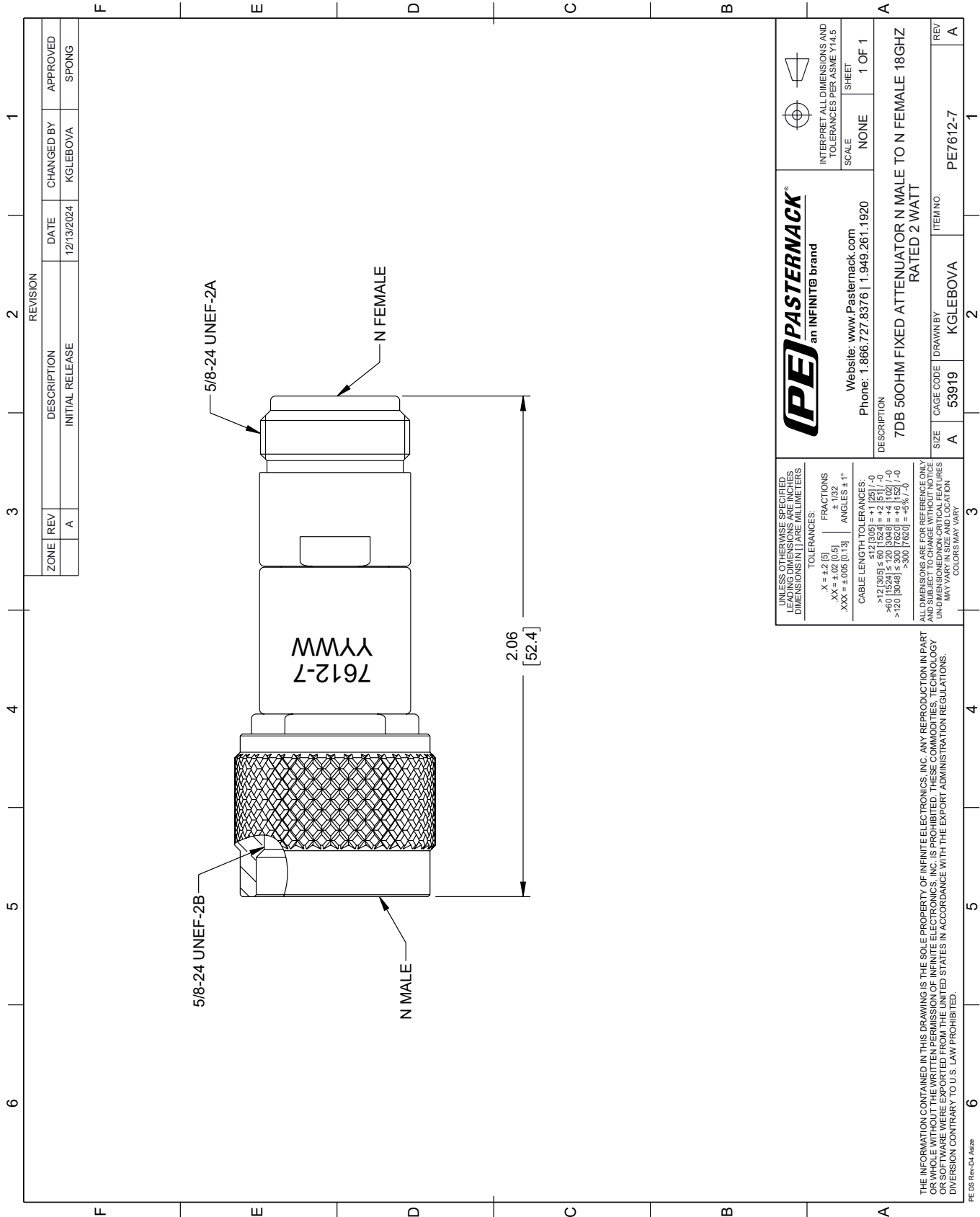
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [7 dB Fixed Attenuator N-Type Male to N-Type Female Passivated Stainless Steel Body Rated 2 Watt DC to 18GHz PE7612-7](#)

URL: <https://www.pasternack.com/7db-fixed-n-male-n-female-2-watts-attenuator-pe7612-7-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

# PE7612-7 CAD Drawing

7 dB Fixed Attenuator N-Type Male to N-Type Female Passivated Stainless Steel Body Rated 2 Watt DC to 18GHz



REVISION		DATE	CHANGED BY	APPROVED
ZONE	REV	DESCRIPTION	INITIAL RELEASE	
	A			SPONG

**PE PASTERNAK**  
an INFINIT® brand

Website: [www.Pasternack.com](http://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 DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [5]  
 .XX = ±.02 [0.5]  
 .XXX = ±.005 [0.13]  
 FRACTIONS: ± 1/32  
 ANGLES: ± 1°

CABLE LENGTH TOLERANCES:  
 <12 [305] ≤ 60 [1524] = ±.1 [25] / -0  
 >60 [1524] ≤ 120 [3048] = ±.1 [25] / -0  
 >120 [3048] ≤ 300 [7620] = ±.3 [7.6] / -0  
 >300 [7620] = ±.5 [12.7] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNLESS OTHERWISE SPECIFIED, DIMENSIONS MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

DESCRIPTION: 7DB 500HM FIXED ATTENUATOR N MALE TO N FEMALE 18GHZ RATED 2 WATT

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	KGLEBOVA	PE7612-7

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES, TECHNOLOGY OR SERVICES ARE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

PE DS Rev-04 Add2