



## 2 Watt RF Load DC to 12 GHz With N Male Input Brass Body

### RF Terminations Technical Data Sheet

**PE6TR1142**

#### Features

- DC to 12 GHz Frequency Range
- 50 Ohm Impedance
- N Male Coaxial Interface
- Max VSWR 1.2:1
- Max Power 2 Watts (CW)

#### Applications

- WIFI 6E
- 5G Cellular bands
- SatCom
- Radar Systems
- Test and Measurement
- Commercial and Military
- Communication

#### Description

Pasternack's PE6TR1142 is an RF termination (also called RF load or dummy load) that operates from DC to 12 GHz and handles up to 2 Watt (CW). Our N termination / load has a male gender. PE6TR1142 N load termination offers 1.2:1 max VSWR.

RF load / terminations are indispensable components in many RF, microwave and millimeter wave systems where signal reflection from unused ports can potentially damage the device or reduce the signal integrity. By using a terminator on an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These termination components are commonly used to terminate devices such as couplers, circulators, and switches. They are also widely used in measurement systems to ensure accurate results. Pasternack offers a huge selection of RF, microwave and millimeter wave terminations up to 65 GHz with excellent performance over the entire operating range and power handling capabilities up to 800 Watt (CW).

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
VSWR			1.2:1	
Input Power (CW)			2	Watts
Derated linearly to 1W at +165°C				
Dielectric Withstanding Voltage (DC)			2,500	Vdc
Operating Voltage (DC)			1,000	Vdc

#### Mechanical Specifications

<b>Size</b>	
Length	0.866 in [22 mm]
Width	0.827 in [21.01 mm]
Height	0.827 in [21.01 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 Watt RF Load DC to 12 GHz With N Male Input Brass Body PE6TR1142](#)



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Weight 0.038 lbs [17.24 g]  
Package Type Connectorized

**Configuration**  
Connector N Male

#### Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Insulation	Teflon	
Body	Brass	Copper-Tin-Zinc Alloy
Coupling Nut	Brass	Copper-Tin-Zinc Alloy

#### Environmental Specifications

**Temperature**  
Operating Range -55 to +165 deg C  
**Humidity** MIL-STD-202, Method 106  
**Thermal Shock** MIL-STD-202, Method 107, Condition B  
**Salt Spray** MIL-STD-202, Method 101, Condition B

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

#### Plotted and Other Data

Notes:

2 Watt RF Load DC to 12 GHz With N Male Input Brass Body 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: [2 Watt RF Load DC to 12 GHz With N Male Input Brass Body PE6TR1142](#)

URL: <https://www.pasternack.com/2-watts-n-male-feed-thru-load-12-ghz-pe6tr1142-p.aspx>

The information contained in 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 reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

# PE6TR1142 CAD Drawing

2 Watt RF Load DC to 12 GHz With N Male Input Brass Body

F

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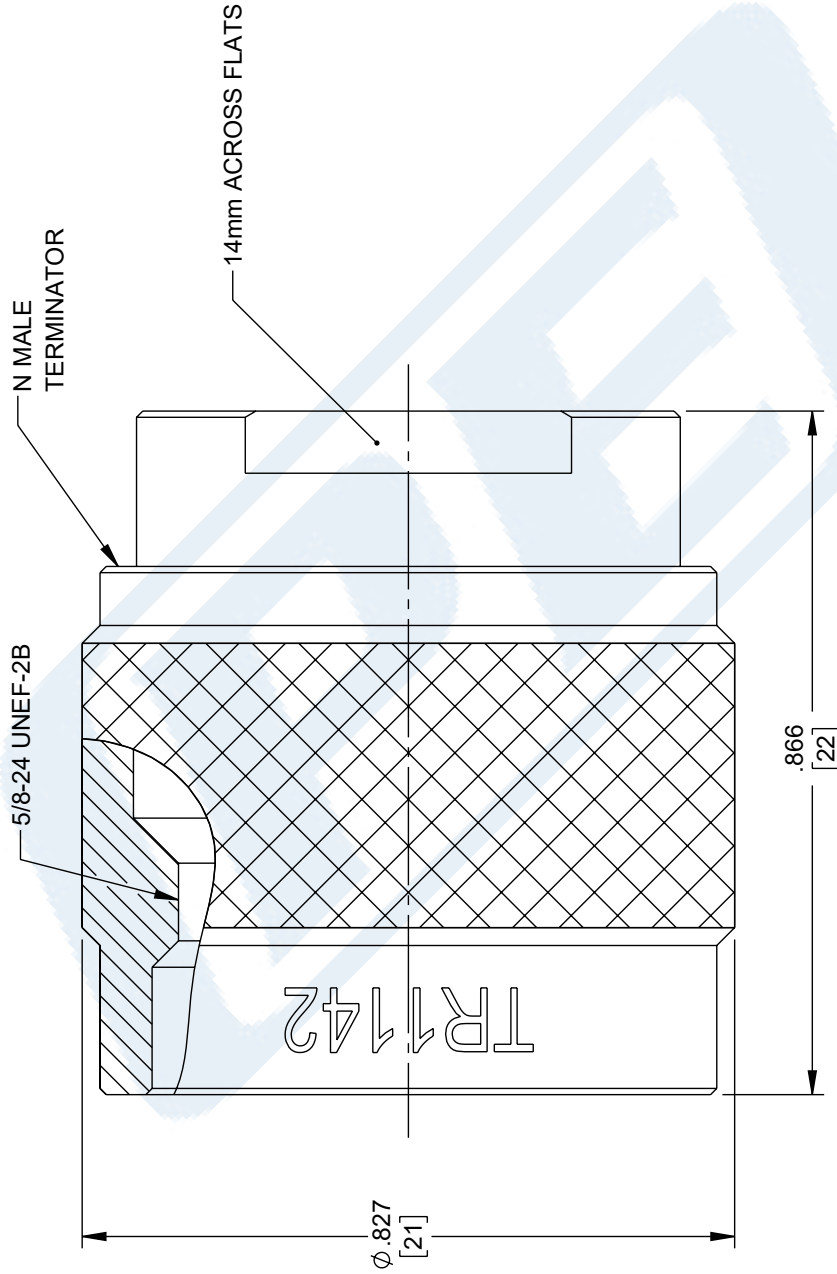
4

5

6

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	05/10/2023	DZINN	SPONG



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

TOLERANCES:

X = ±.2 [5] FRACTIONS  
.XX = ±.02 [.5] ±.132  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH TOLERANCES:

≤12 [305] = ±.125 [-0]  
>12 [305] ≤ 60 [1524] = ±.25 [-0]  
>60 [1524] ≤ 120 [3048] = ±.4 [102] [-0]  
>120 [3048] ≤ 300 [7620] = ±.6 [152] [-0]  
>300 [7620] = ±.6% [-0]

ALL DIMENSIONS ARE FOR REFERENCE ONLY  
AND SUBJECT TO CHANGE WITHOUT NOTICE

**PE PASTERNAK®**  
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Website: [www.Pasternack.com](http://www.Pasternack.com)  
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

N MALE TERMINATOR, 2 WATT, 50 OHM,  
12 GHz, VSWR 1.2, BRASS



INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE

NONE

SHEET

1 OF 1

SIZE CASE CODE DRAWN BY ITEM NO.

A 53919 DZINN

PE6TR1142

REV

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