



## 2 Watt RF Load DC to 12 GHz With TNC Female Input Brass Body

### RF Terminations Technical Data Sheet

**PE6TR1148**

#### Features

- DC to 12 GHz Frequency Range
- 50 Ohm Impedance
- TNC Female 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 PE6TR1148 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 TNC termination / load has a female gender. PE6TR1148 TNC 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) Derated linearly to 1W at +165°C			2	Watts
Dielectric Withstanding Voltage (DC)			1,500	Vdc
Operating Voltage (DC)			500	Vdc

#### Mechanical Specifications

Size	
Length	0.902 in [22.91 mm]
Width	0.433 in [11 mm]
Height	0.433 in [11 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 TNC Female Input Brass Body PE6TR1148](#)



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Weight	0.025 lbs [11.34 g]
Package Type	Connectorized
<b>Configuration</b>	
Connector	TNC Female

#### Material Specifications

Description	Material	Plating
Connector 1 Contact	Phosphor Bronze	Gold
Insulation	Teflon	
Body	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 TNC Female 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 TNC Female Input Brass Body PE6TR1148](#)

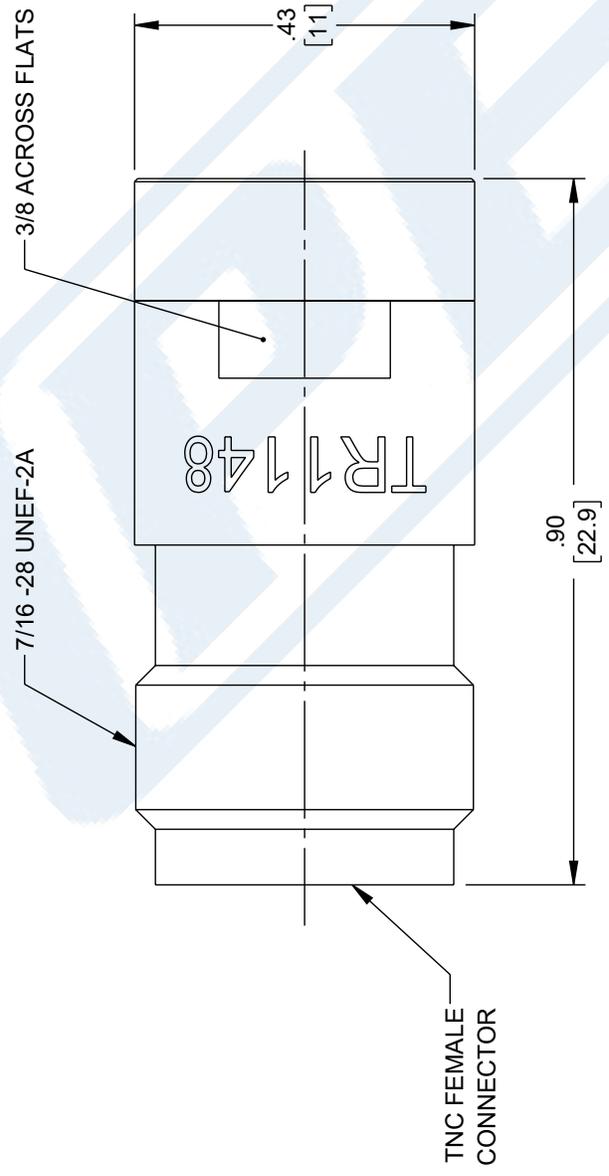
URL: <https://www.pasternack.com/2-watts-tnc-female-feed-thru-load-12-ghz-pe6tr1148-p.aspx>

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.

# PE6TR1148 CAD Drawing

2 Watt RF Load DC to 12 GHz With TNC Female Input Brass Body

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



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

TOLERANCES:  
 .X = ±.2 [ .5 ] FRACTIONS  
 .XX = ±.02 [ .5 ] ± 1/32  
 .XXX = ±.005 [ .13 ] ANGLES ± 1°

CABLE LENGTH TOLERANCES:  
 ≤ 12 [305] = +1 [25] / -0  
 > 12 [305] ≤ 60 [1524] = +2 [51] / -0  
 > 60 [1524] ≤ 120 [3048] = +4 [102] / -0  
 > 120 [3048] ≤ 300 [7620] = +6 [152] / -0  
 > 300 [7620] = +5% / -0

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

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 Phone: 1.866.727.8376 | 1.949.261.1920

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: TNC FEMALE TERMINATOR, 2 WATT, 50 OHM, 12 GHz, VSWR 1.2, BRASS

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	DZINN	PE6TR1148	A