



0.5 Watts RF Load Up to 110 GHz with 1.0 mm  
Male Input Passivated Stainless Steel

## RF Terminations Technical Data Sheet

**PE6TR1123**

### Features

- DC to 110 GHz Frequency Range
- 50 Ohm Impedance
- 1.0 mm Male Coaxial Interface
- VSWR 2.5:1 Max
- Max Power 0.5 Watts (CW)

### Applications

- Wireless
- Video Signal Transmission
- Radar Systems
- Test and Measurement
- Commercial and Military Communication
- Avionics

### Description

Pasternack's PE6TR1123 is an RF termination (also called RF load or dummy load) that operates from DC to 110 GHz and handles up to 0.5 Watt (CW). Our 1.0 mm termination / load has a male gender. PE6TR1123 1.0 mm load termination offers 2.5:1 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 110 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		110	GHz
Impedance		50		Ohms
VSWR			2.5:1	
Input Power (CW)			0.5	Watts
Derated linearly to 10% @ 100°C from 25°C				

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 26.5	26.5 to 40	40 to 65	65 to 90	90 to 110	GHz
VSWR, Max	1.35:1	1.55:1	1.65:1	2.1:1	2.5:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.5 Watts RF Load Up to 110 GHz with 1.0 mm Male Input Passivated Stainless Steel PE6TR1123](#)



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### Mechanical Specifications

#### Size

Length	0.5 in [12.7 mm]
Width	0.66 in [16.76 mm]
Height	0.46 in [11.68 mm]
Weight	0.04 lbs [18.14 g]
Package Type	Connectorized

#### Configuration

Connector	1.0mm Male
Termination Design	RF Load

### Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Insulation	Teflon	
Body	Stainless Steel	Passivated Stainless Steel
Housing	Stainless Steel	Passivated Stainless Steel

### Environmental Specifications

#### Temperature

Operating Range	-55 to +100 deg C
Storage Range	-55 to +100 deg C

### Compliance Certifications

(see [product page](#) for current document)

### Plotted and Other Data

Notes:

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**PE6TR1123**

0.5 Watts RF Load Up to 110 GHz with 1.0 mm Male Input Passivated Stainless Steel 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: [0.5 Watts RF Load Up to 110 GHz with 1.0 mm Male Input Passivated Stainless Steel PE6TR1123](https://www.pasternack.com/0.5-watts-1.0mm-male-rf-load-110-ghz-pe6tr1123-p.aspx)

URL: <https://www.pasternack.com/0.5-watts-1.0mm-male-rf-load-110-ghz-pe6tr1123-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.

# PE6TR1123 CAD Drawing

0.5 Watts RF Load Up to 110 GHz with 1.0 mm Male Input Passivated Stainless Steel

F

D

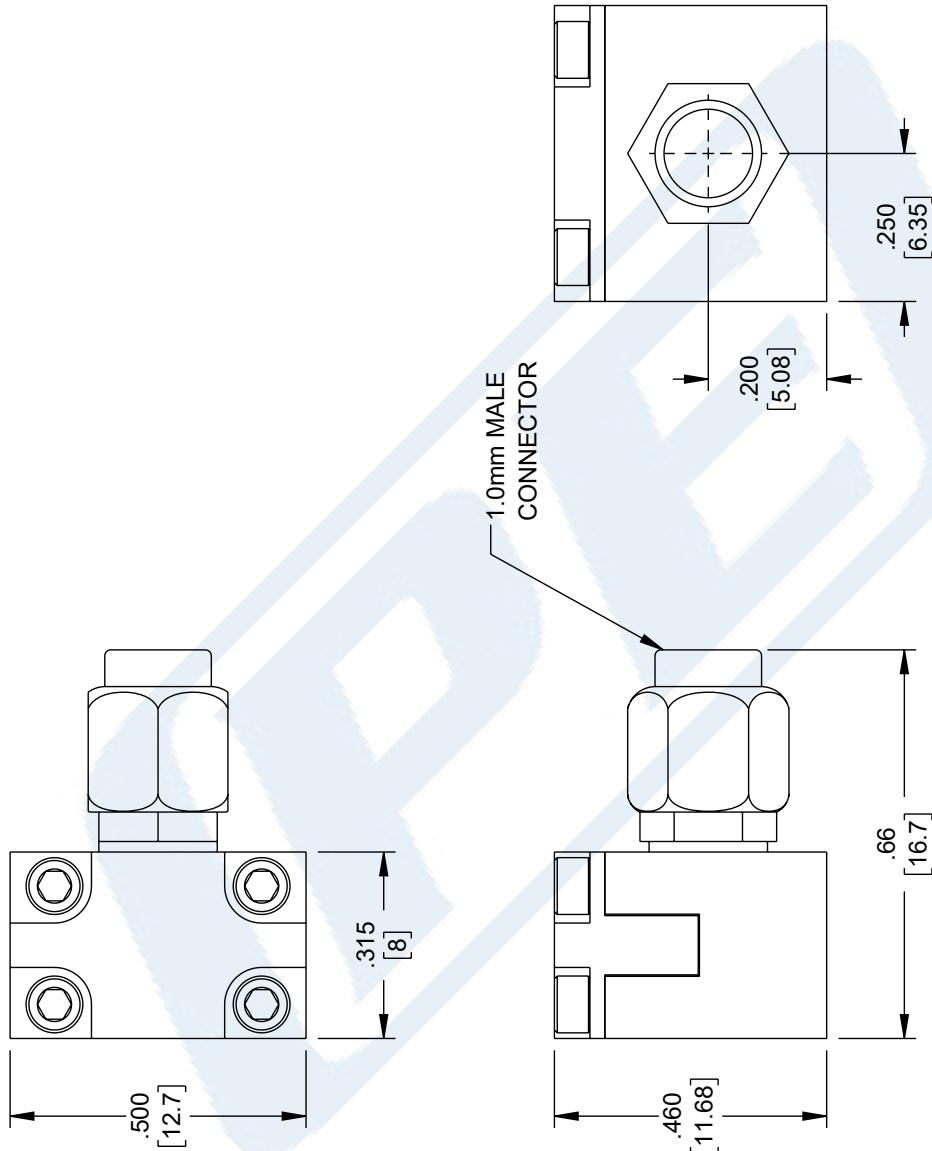
C

B

A

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	03/22/2023	SREITER	SPOONG

REVISION



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

TOLERANCES:

$X = \pm .2$	[.5]	FRACTIONS
$XX = \pm .02$	[.5]	$\pm .132$
$XXX = \pm .005$	[.13]	ANGLES $\pm 1^\circ$
CABLE LENGTH TOLERANCES:		
$\leq 12 [305] = +1 [28] / -0$		
$> 12 [305] \leq 60 [1524] = +2 [51] / -0$		
$> 60 [1524] \leq 120 [3048] = +4 [102] / -0$		
$> 120 [3048] \leq 300 [7620] = +6 [152] / -0$		
$> 300 [7620] = +5\% / -0$		

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



INTERPRET ALL DIMENSIONS AND  
TOLERANCES PER ASME Y14.5

SCALE

NONE

ITEM NO.

PE6TR1123

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