



1 Watt RF Load Up to 18 GHz with SMP Male
Limited Detent Gold over Nickel Plated Brass

RF Terminations Technical Data Sheet

PE6161

Features

- DC to 18 GHz Frequency Range
- Return Loss -20 dB Max
- Max Power 1 Watt (CW)
- SMP Male Limited Detent Coaxial Interface

Applications

- Wireless
- SatCom
- Radar Systems
- Test and Measurement
- Commercial and Military Communication

Description

Pasternack's PE6161 is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 1 Watt (CW). Our SMP male termination / load has a limited detent interface. PE6161 SMP load termination offers -20 dB max return loss.

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 terminating 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 Watts (CW).

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		18	GHz
Impedance		50		Ohms
Return Loss			-20	dB
Input Power (CW) derated linearly by 0.01 W/K			1	Watts

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 8				GHz
Return Loss, Max	-28.3	-20				dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 Watt RF Load Up to 18 GHz with SMP Male Limited Detent Gold over Nickel Plated Brass PE6161](#)



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Mechanical Specifications

Size

Length	0.45 in [11.43 mm]
Width	0.2 in [5.08 mm]
Weight	0.002 lbs [0.91 g]

Configuration

Connector	Limited Detent SMP Male
Connector Specification	MIL-STD-348
Durability	500 Cycles

Material Specifications

Description	Material	Plating
Connector 1 Contact	Brass	Gold over Nickel 0.8µm min.
Insulation	PTFE	
Body	Brass	Gold over Nickel 0.8µm min.
Housing	Brass	Gold over Nickel 0.8µm min.

Environmental Specifications

Temperature

Operating Range	-55 to +155 deg C
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Compliance Certifications (visit www.Pasternack.com for current document)

RoHS Compliant	
REACH Compliant	12/17/2015

Plotted and Other Data

Notes:

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1 Watt RF Load Up to 18 GHz with SMP Male Limited Detent Gold over Nickel Plated Brass from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

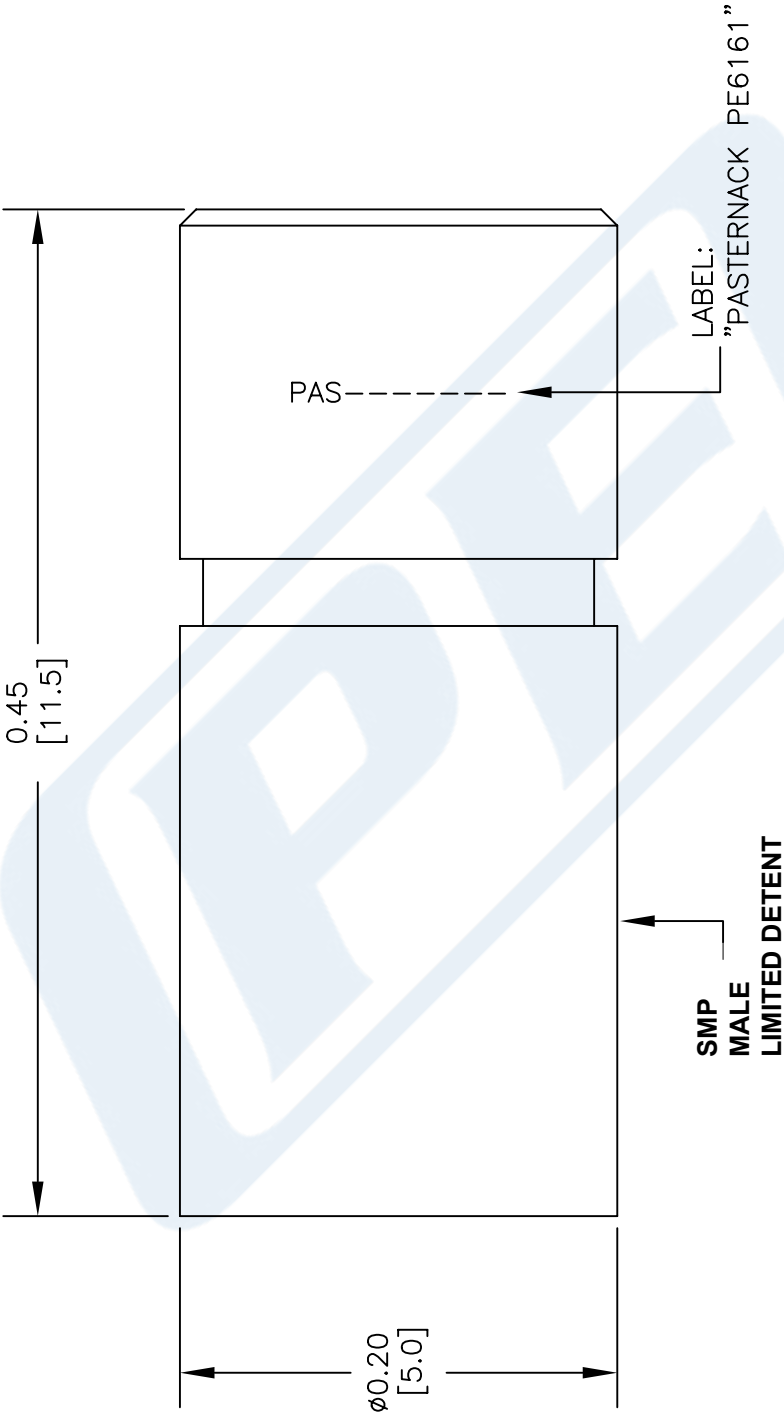
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 Watt RF Load Up to 18 GHz with SMP Male Limited Detent Gold over Nickel Plated Brass PE6161](https://www.pasternack.com/1-watts-smp-male-rf-load-up-to-10-ghz-pe6161-p.aspx)

URL: <https://www.pasternack.com/1-watts-smp-male-rf-load-up-to-10-ghz-pe6161-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.

PE6161 CAD Drawing

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STANDARD TOLERANCES		
.X	± 0.2	
.XX	± 0.1	
.XXX	± 0.05	

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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].

DWG TITLE
PE6161

FSCM NO. 53919

SCALE N/A

SIZE A

CAD FILE 060916

3045

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