PASTERNACK®
THE ENGINEER'S RF SOURCE



0.5 Watt RF Load Up to 40 GHz With Mini SMP Female Input Gold over Nickel Plated Beryllium Copper

RF Terminations Technical Data Sheet PE6162

Features

- DC to 40 GHz Frequency Range
- VSWR 1.35:1 Max
- Max Power 0.5 Watt (CW)
- Mini SMP Female Coaxial Interface

Applications

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

Description

Pasternack's PE6162 is an RF termination (also called RF load or dummy load) that operates from DC to 40 GHz and handles up to 0.5 Watt (CW). Our Mini SMP termination / load has a female gender. PE6162 Mini SMP load termination offers 1.35:1 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		40	GHz
Impedance		50		Ohms
VSWR			1.35:1	
Input Power (CW)			0.5	Watts
derated linearly to 0W at +125°C				

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 26.5	26.5 to 40			GHz
VSWR, Max	1.1:1	1.3:1	1.35:1			

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 0.5 Watt RF Load Up to 40 GHz With Mini SMP Female Input Gold over Nickel Plated Beryllium Copper PE6162

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Mechanical Specifications

Size

Length	0.29 in [7.37 mm]
Width	0.13 in [3.3 mm]
Weight	0.006 lbs [2.72 g]

Configuration

Connector	Mini SMP Female
Connector Specification	MIL-STD-348
Durability	100 Cycles

Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over Nickel 1.27µm min.
Insulation	PTFE	
Body	Beryllium Copper	Gold over Nickel 0.8µm min.
Housing	Beryllium Copper	Gold over Nickel 0.8µm min.

Environmental Specifications

Temperature

Operating Range	-55 to +155 deg C

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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RF Terminations Technical Data Sheet PE6162

0.5 Watt RF Load Up to 40 GHz With Mini SMP Female Input Gold over Nickel Plated Beryllium Copper 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: 0.5 Watt RF Load Up to 40 GHz With Mini SMP Female Input Gold over Nickel Plated Beryllium Copper PE6162

URL: http://www.pasternack.com/0.5-watts-mini-smp-female-rf-load-up-to-40-ghz-precision-pe6162-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.

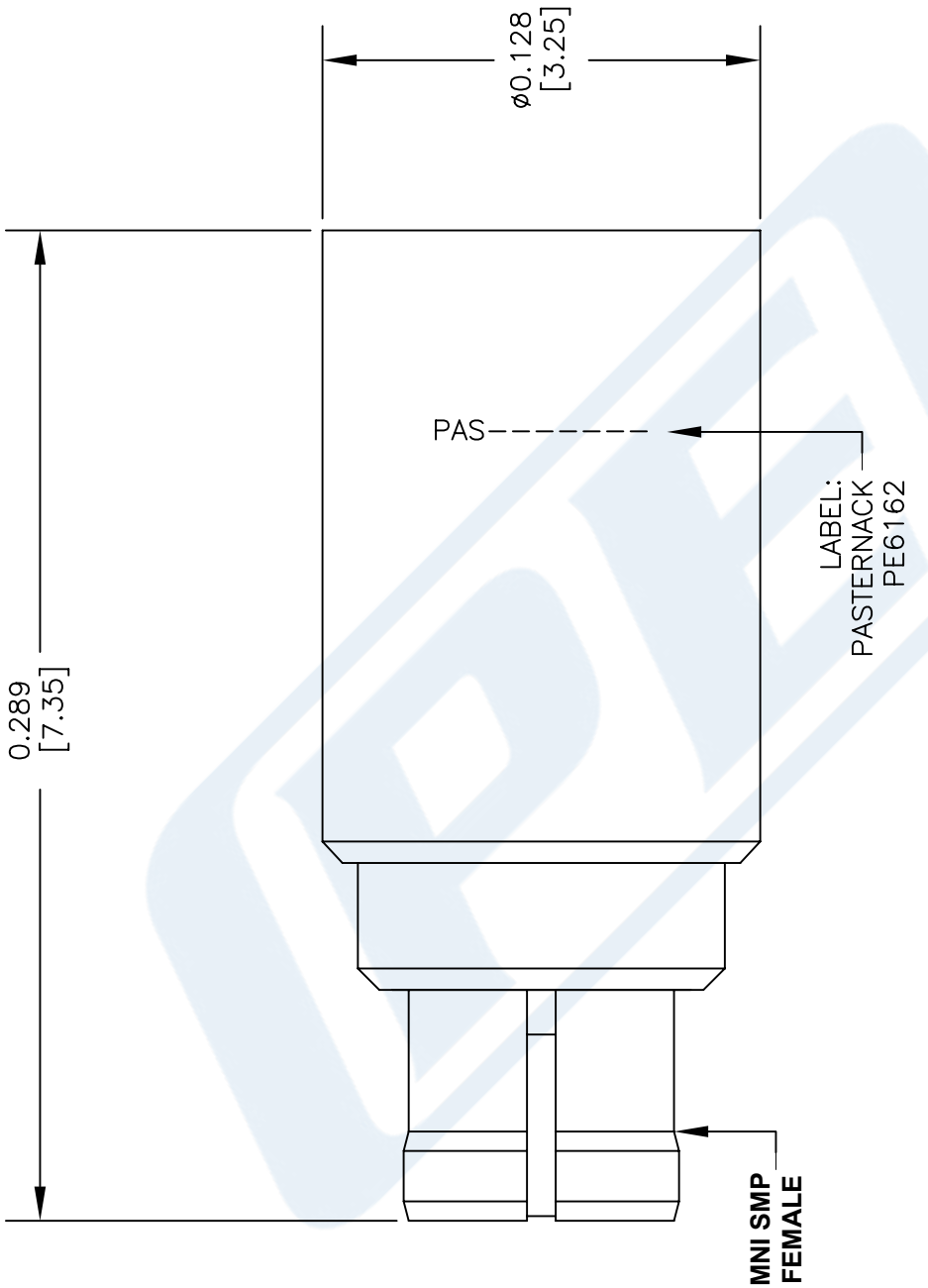
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PE6162 CAD Drawing

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Gold over Nickel Plated Beryllium Copper



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].

CAD FILE	SCALE	SIZE	
060916	N/A	A	3045

DWG TITLE **PE6162**

FSCM NO. 53919

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

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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