



# 1 Watt RF Load with Chain Up to 18 GHz with SMA Male Passivated Stainless Steel

## RF Terminations Technical Data Sheet

PE6069

### Features

- DC to 18 GHz Frequency Range
- VSWR 1.2:1 Max
- Max Power 1 Watt (CW)
- SMA Male Coaxial Interface
- Includes Beaded Chain

### Applications

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

### Description

Pasternack's PE6069 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 SMA termination / load has a male gender. PE6069 SMA 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		18	GHz
Impedance		50		Ohms
VSWR			1.2:1	
Input Power (CW) derated linearly to 0W at +125°C			1	Watts

### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 8	8 to 12.4	12.4 to 18			GHz
VSWR, Max	1.1:1	1.15:1	1.2:1			

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 with Chain Up to 18 GHz with SMA Male Passivated Stainless Steel PE6069](#)



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**Mechanical Specifications**

**Size**

Length	0.5 in [12.7 mm]
Width	0.315 in [8 mm]
Weight	0.012 lbs [5.44 g]

**Configuration**

Connector	SMA Male
Connector Specification	MIL-STD-348
Hex Size	5/16 inch

**Material Specifications**

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	
Housing	Passivated Stainless Steel	
Chain	Passivated Stainless Steel	

**Environmental Specifications**

**Temperature**

Operating Range	-55 to +125 deg C
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**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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1 Watt RF Load with Chain Up to 18 GHz with SMA Male 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.

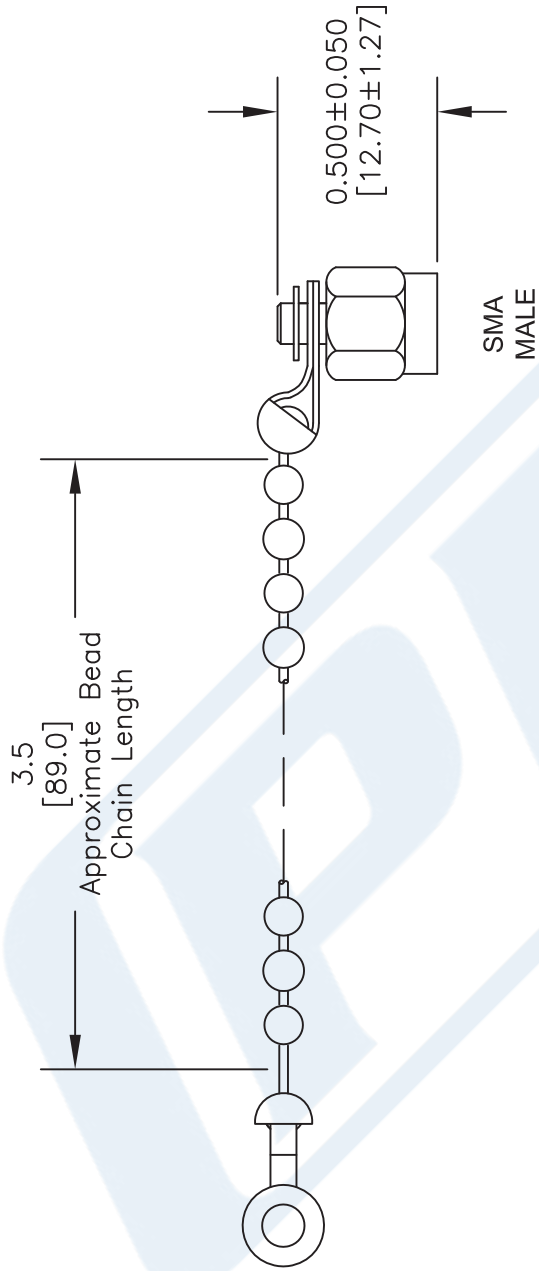
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 Watt RF Load with Chain Up to 18 GHz with SMA Male Passivated Stainless Steel PE6069](https://www.pasternack.com/0.5-watts-sma-male-rf-load-up-to-18-ghz-precision-pe6069-p.aspx)

URL: <https://www.pasternack.com/0.5-watts-sma-male-rf-load-up-to-18-ghz-precision-pe6069-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.

# PE6069 CAD Drawing

1 Watt RF Load with Chain Up to 18 GHz with SMA Male Passivated Stainless Steel



**STANDARD TOLERANCES**

- .X ±0.2
- .XX ±0.1
- .XXX ±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



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DWG TITLE

**PE6069**

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].

CAGE CODE 53919

CAD FILE 051617

SCALE N/A

SIZE A

2233