

## 2 Watt RF Load With Chain Up to 18 GHz With SMA Female Input Stainless Steel Body



### PE6TR1174C

#### Features

- DC to 18 GHz Frequency Range
- VSWR <1.2:1
- Max Power 2 Watt (CW)
- SMA Female Coaxial Interface
- Includes Beaded Chain

#### Applications

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

#### Description

Pasternack's PE6TR1174C is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 2 Watt (CW). Our SMA termination/load has a female gender. PE6TR1174C SMA load termination offers 1.2:1 VSWR max.

RF load / termination are indispensable components in many RF, microwave and millimeter wave systems where signal reflections 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, Input			1.2:1	
Input Power (CW)			2	Watts
Derated linearly to 1W @ 165°C				
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Operating Voltage (AC)			500	Vrms

#### Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4	12.4 to 18			GHz
VSWR, Input Typ	1.1:1	1.15:1	1.2:1			

#### Mechanical Specifications

##### Size

Length	0.559 in [14.2 mm]
Width	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.008 lbs [3.63 g]

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#### Configuration

Connector  
Mating Torque

SMA Female  
7 to 9.5 in-lbs [0.79 to 1.07 Nm]

#### Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over nickel
Insulation	Teflon	
Gasket	Silicone	
Connector 1 Body	Stainless Steel	Passivated
Chain	Brass	Copper-Tin-Zinc Alloy

#### Environmental Specifications

##### Temperature

Operating Range  
Ingress Protection (IP) Rating  
Humidity  
Thermal Shock  
Salt Spray

-55 to +70 deg C  
IP67  
MIL-STD-202, Method 106  
MIL-STD-202, Method 107, Condition B  
MIL-STD-202, Method 101, Condition B

#### Compliance Certifications (see product page for current document)

#### Plotted and Other Data

Notes:

2 Watt RF Load With Chain Up to 18 GHz With SMA Female Input Stainless Steel 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.

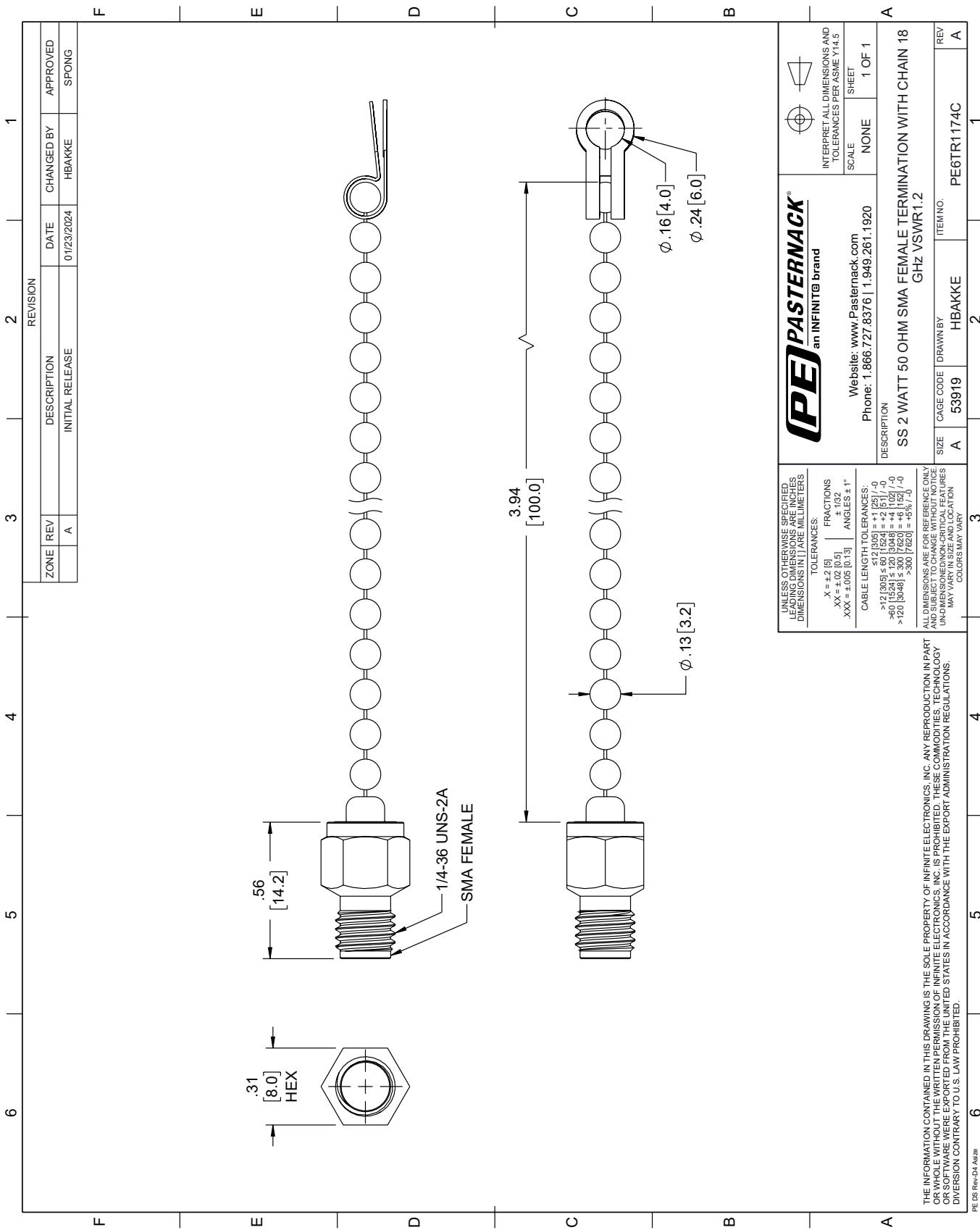
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2 Watt RF Load With Chain Up to 18 GHz With SMA Female Input Stainless Steel Body PE6TR1174C](#)

URL: <https://www.pasternack.com/2-watts-sma-female-rf-load-18-ghz-pe6tr1174c-p.aspx>

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# PE6TR1174C CAD Drawing

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