

2 Watt RF Load DC to 18 GHz with SMA Male Input Passivated Stainless Steel Body



PE6TR1173

Features

- DC to 18 GHz Frequency Range
- 50 Ohm Impedance
- SMA Male Coaxial Interface
- Max VSWR 1.2:1
- Max Power 2 Watts (CW)

Applications

- Instrumentation
- Precision Measurements
- Prototyping and Characterization
- Production Systems

Description

Pasternack's PE6TR1173 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 male gender. PE6TR1173 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. L-com 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 | | 1.15:1 | 1.2:1 | |
| Input Power (CW) | | | 2 | Watts |
| 2W average power from -55°C to 70°C linearly derated to 1 Watt at 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 | 0.52 in [13.21 mm] |
| Width | 0.31 in [7.87 mm] |
| Height | 0.31 in [7.87 mm] |
| Weight | 0.1 lbs [45.36 g] |

| | |
|----------------------|----------|
| Configuration | |
| Connector | SMA Male |

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Connector Specification

MIL-STD-348B

Material Specifications

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

Environmental Specifications

Temperature

Operating Range

-65 to +165 deg C

Humidity

MIL-STD-202, Method 106

Thermal Shock

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

2 Watt RF Load DC to 18 GHz with SMA Male Input Passivated 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 DC to 18 GHz with SMA Male Input Passivated Stainless Steel Body PE6TR1173](#)

URL: <https://www.pasternack.com/2-watts-sma-male-rf-load-18-ghz-pe6tr1173-p.aspx>

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PE6TR1173 CAD Drawing

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