



# 1 Watt RF Load Up to 18 GHz with BMA Jack

## RF Terminations Technical Data Sheet

PE6TR1042

### Features

- 50 Ohm RF Load
- DC to 18 GHz Frequency Range
- VSWR 1.30:1 Max
- Max Power 1 Watt (CW)
- BMA Jack Coaxial Interface

### Applications

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

### Description

RF termination (also called RF load or dummy load) PE6TR1042 from Pasternack operates from DC to 18 GHz and handles up to 1 Watt (CW). This BMA termination (or load) is a 50 Ohm impedance and has a Female gender. PE6TR1042 50 Ohm BMA load termination offers 1.30:1 max VSWR. RF terminations / loads are critical passive components in many RF, microwave and millimeter wave systems where signal reflection from unused ports can reduce the signal integrity can potentially damage the device. By terminating an unused port with a matched load (dummy load), the incident energy will be absorbed with minimal reflection. These radio frequency termination components are commonly used to terminate devices such as couplers, circulators, and switches. Loads / terminations are also widely used in measurement systems to ensure accurate results. Pasternack offers a large selection of in-stock RF, microwave and millimeter wave terminations up to 65 GHz with great performance over the entire operating range and with power handling capabilities up to 800 Watts (CW).

### Electrical Specifications

| Description                            | Minimum | Typical | Maximum | Units |
|--|---------|---------|---------|-------|
| Frequency Range                        | DC      |         | 18      | GHz   |
| Impedance                              |         | 50      |         | Ohms  |
| VSWR                                   |         |         | 1.3:1   |       |
| Input Power (CW)                       |         |         | 1       | Watts |
| Input Power (Peak)<br>1 μsec PW, 1% DC |         |         | 100     | Watts |

### Performance by Frequency

| Description     | F1      | F2        | F3         | F4 | F5 | Units |
|-----------------|---------|-----------|------------|----|----|-------|
| Frequency Range | DC to 4 | 4 to 12.4 | 12.4 to 18 |    |    | GHz   |
| VSWR, Typ       | 1.1:1   | 1.15:1    | 1.3:1      |    |    |       |

### Mechanical Specifications

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 BMA Jack PE6TR1042](#)



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**Configuration**

Connector BMA Jack  
Connector Specification MIL C39012

**Material Specifications**

| Description         | Material                   | Plating |
|---------------------|----------------------------|---------|
| Connector 1 Contact | Beryllium Copper           | Gold    |
| Insulation          | PTFE                       |         |
| Body                | Passivated Stainless Steel |         |

**Environmental Specifications**

**Temperature**

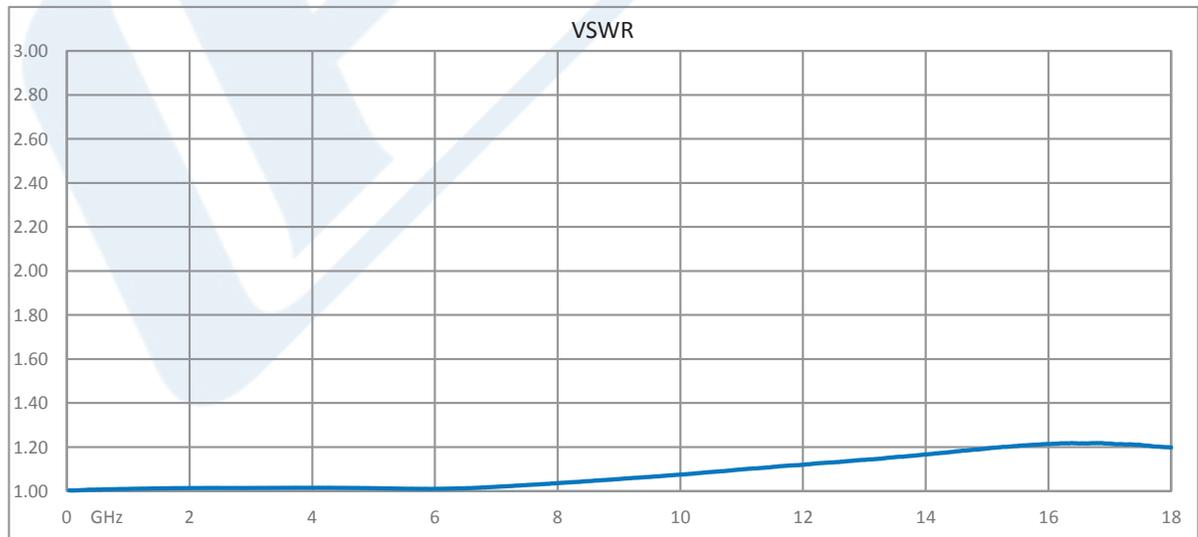
Operating Range -55 to +125 deg C  
Storage Range -55 to +125 deg C

**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

**Typical Performance Data**



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 BMA Jack PE6TR1042](#)

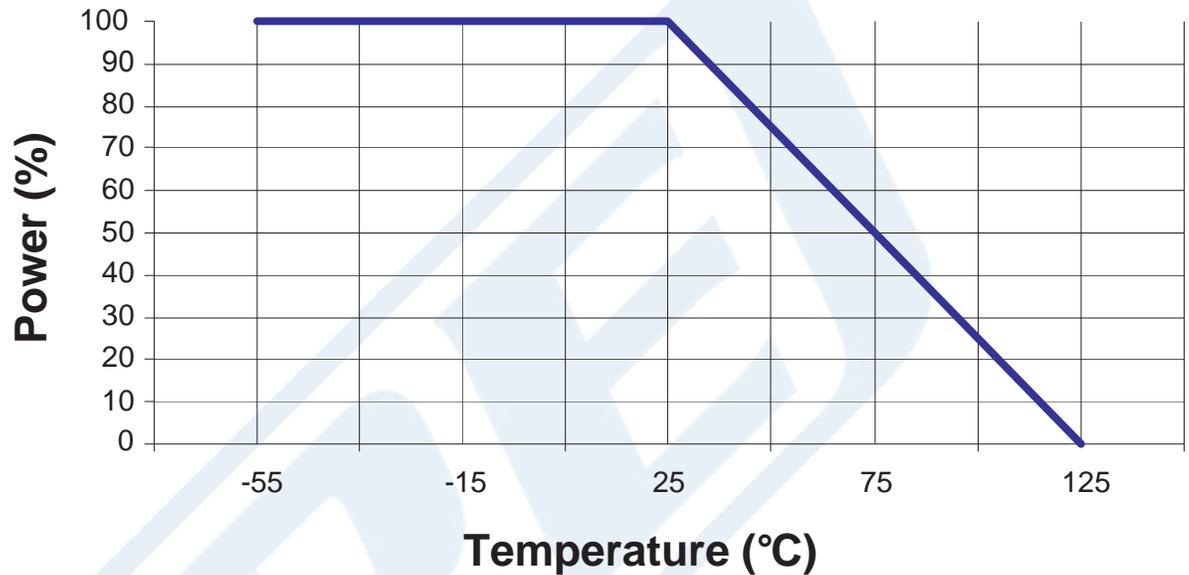


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#### Power derating Vs. temperature



1 Watt RF Load Up to 18 GHz with BMA Jack 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.

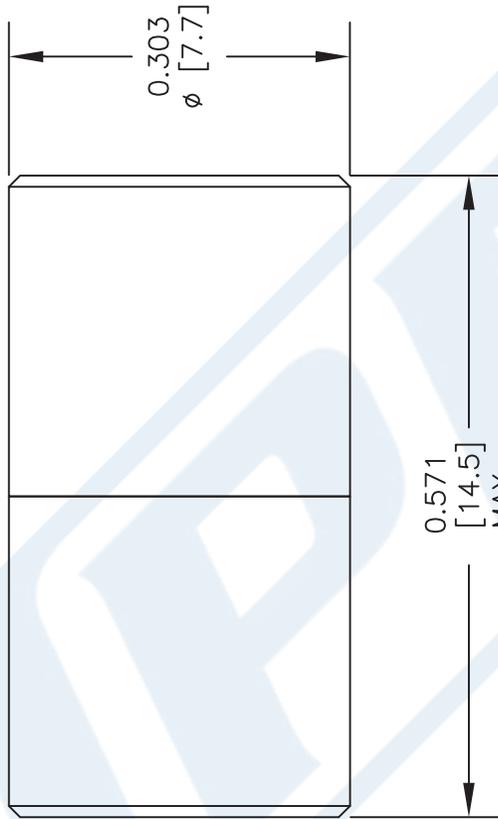
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [1 Watt RF Load Up to 18 GHz with BMA Jack PE6TR1042](https://www.pasternack.com/1-watts-bma-jack-rf-load-18-ghz-pe6tr1042-p.aspx)

URL: <https://www.pasternack.com/1-watts-bma-jack-rf-load-18-ghz-pe6tr1042-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.

# PE6TR1042 CAD Drawing

1 Watt RF Load Up to 18 GHz with BMA Jack



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

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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 THE ENGINEER'S RF SOURCE  
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DWG TITLE  
**PE6TR1042**

CAGE CODE **53919**

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].  
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 061317 SCALE N/A SIZE A 2233