

Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum



RF Terminations Technical Data Sheet

PE6TR1157

Features

- 50 Ohm Impedance
- 400 to 6,000 MHz Frequency Range
- VSWR 1.25:1 Typ

- · Max Power 300 Watts (CW)
- PIM rating -168dBc Typical
- 4.3-10 Female Coaxial Interface

Applications

- Wireless
- SatCom
- · Test and Measurement
- Commercial and Military Communication
- Base Station

4G/AWS/PCS

Description

Pasternack's PE6TR1157 is a high power RF cable termination (also called RF load or dummy load) that operates from 400 to 6,000 MHz and handles up to 300 Watts (CW). Our 4.3-10 termination / load is a 50 Ohm impedance and has a female gender. PE6TR1157 load termination offers 1.25:1 VSWR and low PIM (passive intermodulation) of -168 dBc typical. This Pasternack 300 Watts terminator has a heatsink body which is designed to provide adequate heat dissipation within its full frequency of operation.

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 terminating 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, hybids, and combiners. 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 Watts (CW).

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.4		6	GHz
Impedance		50		Ohms
VSWR		1.25:1		
Passive Intermodulation		-168	-160	dBc
2x43dBm				
Input Power (CW)			300	Watts
Input Power (Peak)			3	kWatts
8% duty cycle, 20us PW				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum PE6TR1157

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



Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum



RF Terminations Technical Data Sheet

PE6TR1157

Mechanical Specifications

Size

 Length
 10.63 in [270 mm]

 Width
 7.48 in [189.99 mm]

 Height
 3.74 in [95 mm]

 Weight
 8.83 lbs [4.01 kg]

 Package Type
 Connectorized

Configuration

Connector 4.3-10 Female
Termination Design RF Load

Material Specifications

Description	Material	Plating	
Connector 1 Contact	Beryllium Copper	Gold	
Body	Brass	Tri-Metal	
Housing	Black Anodized Aluminum Heatsink		

Environmental Specifications

Temperature

Operating Range -40 to +75 deg C Storage Range -50 to +85 deg C

Humidity <95%

 Shock
 IEC 60068-2-27

 Vibration
 IEC 60068-2-6-Fc

Altitude <5000m

Thermal Shock IEC 60068 -2-14-Na

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum PE6TR1157

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



Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum



RF Terminations Technical Data Sheet

PE6TR1157

Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum 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: Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum PE6TR1157

URL: https://www.pasternack.com/300-watts-4.3-10-female-rf-load-6-ghz-low-pim-pe6tr1157-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.

PE6TR1157 CAD Drawing Low PIM 300 Watt RF Load 0.4 GHz to 6 GHz with 4.3-10 Female Black Anodized Aluminum ш INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 ⋖ APPROVED 1 OF SPONG RF TERMINATION 4.3-10 FEMALE 400MHz TO 6GHz 300W, LOW PIM PE6TR1157 NONE CHANGED BY • SREITER 4.3-10 FEMALE PASTERNACK ITEM NO. CONNECTOR Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 03/10/2023 DATE an INFINIT® brand SREITER N REVISION 95.0 3.74 CAGE CODE DRAWN BY 53919 SRI INITIAL RELEASE DESCRIPTION SIZE ⋖ ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. <12 [305] = +1 [25] / -0</p> >12 [305] < 60 [1524] = +2 [51] / -0</p> >60 [1524] < 120 [3048] = +4 [102] / -0</p> >120 [3048] < 300 [7620] = +6 [152] / -0</p> ± 1/32 ANGLES ± 1° UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILL IMETERS FRACTIONS CABLE LENGTH TOLERANCES: >300 [7620] = +5% / -0 က TOLERANCES REV ⋖ $X = \pm .2 \quad [5]$ $XX = \pm .02 \quad [.5]$ $XXX = \pm .005 \quad [.13]$ ZONE 10.63 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN ART OR WHOLE WITHOUT THE WRITHST PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBITED. THESE COMMODITIES TECHNOLOGY OR SOLTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED. 0 Ф 0 0 [190.0] 7.48 [42.5] 1.67 2 Φ 0 0 Φ, 5.51 [140.0] TYP. .33 [8.5] 8X Ø .22 [5.5] MOUNTING HOLE [21.5] 3.74 [95.0]9 1.77 [45.0] TYP. .79 [20.0] TYP.

Ш

ш

 \circ

В

О

⋖