

10 Watt RF Load Up to 12.4 GHz With N Male Input Aluminum Body



Communication

RF Terminations Technical Data Sheet

PE6TR1138

Features

- · DC to 12.4GHz Frequency Range
- 50 Ohm Impedance
- · N Male Coaxial Interface

- Max VSWR 1.35:1
- Max Power 10 Watts (CW)

Applications

- WIFI 6E
- · 5G Cellular Bands
- SatCom

- Radar Systems
- Test and Measurement
- · Commercial and Military

Description

Pasternack's PE6TR1138 is an RF termination (also called RF load or dummy load) that operates from DC to 12.4 GHz and handles up to 10 Watt (CW). Our N termination / load has a male gender. PE6TR1138 N load termination offers 1.35:1 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		12.4	GHz
Impedance	1	50		Ohms
VSWR			1.35:1	
Input Power (CW)			10	Watts
Derated linearly to 1W at 125°C				
Input Power (Peak)			1	kWatts
5 μs pulse, 1% Duty Cycle				

Mechanical Specifications

Size

 Length
 2.28 in [57.91 mm]

 Width
 1.5 in [38.1 mm]

 Height
 1.5 in [38.1 mm]

 Weight
 0.17 lbs [77.11 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 10 Watt RF Load (Termination) Up to 12.4 GHz With N Male Input Black Anodized Aluminum Body PE6TR1138

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



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Configuration

Connector N Male
Termination Design RF Load

Material Specifications

Description	Material	Plating	
Connector 1 Contact	Brass	Gold	
Body	Black Anodized Aluminum		
Coupling Nut	Brass	Nickel	
Housing	Black Anodized Aluminum		

Environmental Specifications

Temperature

Operating Range -55 to +85 deg C

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

10 Watt RF Load Up to 12.4 GHz With N Male Input Aluminum 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.

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URL: https://www.pasternack.com/10-watts-n-male-rf-load-12.4-ghz-pe6tr1138-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.

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PE6TR1138 CAD Drawing 10 Watt RF Load Up to 12.4 GHz With N Male Input Aluminum Body ш INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 DESCRIPTION N MALE TERMINATION, ALUMINUM BODY RATED TO 10 WATTS UP TO 12.4 GHz ⋖ APPROVED BY 1 OF SPONG PE6TR1138 NONE \bigoplus CHANGED BY DMAY **PASTERNACK** ITEM NO Website: www.Pasternack.com Phone: 1.866.727.8376 | 1.949.261.1920 01/30/2023 DATE an INFINIT® brand REVISION N DMAY CAGE CODE DRAWN BY INITIAL RELEASE 2.28 [58] DESCRIPTION 53919 SIZE ⋖ ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. ± 1/32 ANGLES ± 1° >12 [305] = +1 [25] / -0 >12 [305] ≤ 60 [1624] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILL IMETERS FRACTIONS >300 [7620] = +5% / -0 CABLE LENGTH TOLERANCES: REV. ⋖ N MALE CONNECTOR TOLERANCES ZONE $X = \pm .2 \quad [5]$ $XX = \pm .02 \quad [.5]$ $XXX = \pm .005 \quad [.13]$ Ø1.50[38] THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF INFINITE ELECTRONICS, INC. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF INFINITE ELECTRONICS, INC. IS PROHIBÍTED.

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