

5 Watt RF Load Up to 18 GHz With TNC Female Input Stainless Steel Body

PE6TR1176



Features

- DC to 18 GHz Frequency Range
- VSWR <1.2:1
- Max Power 5 Watt (CW)
- TNC Female Coaxial Interface

Applications

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

Description

Pasternack's PE6TR1176 is an RF termination (also called RF load or dummy load) that operates from DC to 18 GHz and handles up to 5 Watt (CW). Our TNC termination/load has a female gender. PE6TR1176 TNC 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)			5	Watts
Derated linearly to 1.5W @ 165°C				
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Operating Voltage (AC)			500	Vrms

Mechanical Specifications

Size

Length	1.703 in [43.26 mm]
Width	0.709 in [18.01 mm]
Height	0.709 in [18.01 mm]
Weight	0.06 lbs [27.22 g]

Configuration

Connector	TNC Female
Mating Torque	4.1 to 6.1 in-lbs [0.46 to 0.69 Nm]

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Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold over nickel
Insulation	Teflon	
Connector 1 Body	Stainless Steel	Passivated

Environmental Specifications

Temperature

Operating Range

-55 to +70 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:

5 Watt RF Load Up to 18 GHz With TNC 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: [5 Watt RF Load Up to 18 GHz With TNC Female Input Stainless Steel Body PE6TR1176](#)

URL: <https://www.pasternack.com/5-watts-tnc-female-rf-load-18-ghz-pe6tr1176-p.aspx>

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PE6TR1176 CAD Drawing

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