



2 Watt RF Load with Chain Up to 18 GHz with TNC Male Passivated Stainless Steel

RF Terminations Technical Data Sheet

PE6090

Features

- DC to 18 GHz Frequency Range
- VSWR 1.25:1 Max
- Max Power 2 Watt (CW)
- TNC Male Coaxial Interface
- Includes Beaded Chain

Applications

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

Description

Pasternack's PE6090 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 TNC termination / load has a male gender. PE6090 TNC load termination offers 1.25:1 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		18	GHz
Impedance		50		Ohms
VSWR			1.25:1	
Input Power (CW) derated linearly to 1W at +125°C			2	Watts
Input Power (Peak) 5µs pulse, 0.05% duty cycle			250	Watts

Mechanical Specifications

Size	
Length	1.25 in [31.75 mm]
Width	0.625 in [15.88 mm]
Weight	0.0825 lbs [37.42 g]

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 with Chain Up to 18 GHz with TNC Male Passivated Stainless Steel PE6090](#)



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Configuration

Connector	TNC Male
Connector Specification	MIL-C-39012
Hex Size	5/8 inch

Material Specifications

Description	Material	Plating
Connector 1 Contact	Beryllium Copper	Gold
Insulation	PTFE	
Body	Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel	
Housing	Passivated Stainless Steel	
Chain	Passivated Stainless Steel	

Mechanical Specification Notes:
TNC connectors are mode-free up to 18 GHz.

Environmental Specifications

Temperature

Operating Range	-65 to +125 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

2 Watt RF Load with Chain Up to 18 GHz with TNC Male Passivated Stainless Steel 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 with Chain Up to 18 GHz with TNC Male Passivated Stainless Steel PE6090](#)

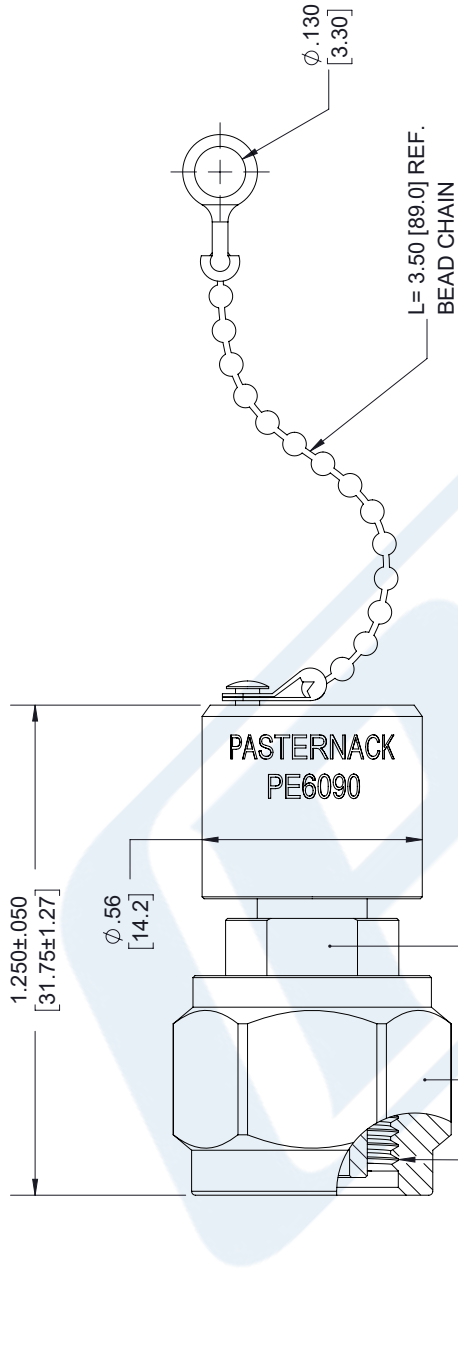
URL: <https://www.pasternack.com/2-watts-tnc-male-rf-load-up-to-18-ghz-precision-pe6090-p.aspx>

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.

PE6090 CAD Drawing

2 Watt RF Load with Chain Up to 18 GHz with TNC Male Passivated Stainless Steel

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
1.2	PCR PE6090 20190523	05/29/19	J.GARCIA



TNC MALE



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS			
TOLERANCES:			
X±.2	2	[5.08]	FRACTIONS
XX±.01	[.25]	±.132	
XXX±.005	[.13]	ANGLES ± 1°	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.			
THIRD-ANGLE PROJECTION			

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SIZE	CAGE	DRAWN BY	PART NUMBER
A	53919	K.DANG	PE6090
SHEET 1 OF 1			SCALE N/A
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