

RP-TNC Plug Connector Crimp/Solder Attachment for RG214, RG9, RG225, RG393



PE517807

Configuration

- TNC Plug Reverse Polarity Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG214, RG9, RG225, RG393

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Phosphor Bronze Contact
- Reverse Polarity

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE517807 RP TNC Plug Connector Crimp/Solder Attachment for RG214, RG9, RG225 and RG393 Cable is part of our full line of RF components available for same-day shipping. The plug reverse polarity configuration uses a plug connector body with an inner contact receptacle. Our TNC plug connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.2:1.

Our reverse polarity TNC plug connector PE517807 datasheet specifications and drawing with dimensions are shown below in this PDF. Pasternack's broad catalog of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. Whether the need is to provide an I/O for a board design, or simply create a custom cable assembly configuration, Pasternack has the right connector for the job. Pasternack can also expertly build your custom cable assemblies for you and ship same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		3	GHz
VSWR			1.2:1	
Insertion Loss		0.173		dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			1.5	mOhms
Outer Conductor DC Resistance			1	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.114 in [28.3 mm]
Width	0.591 in [15.01 mm]
Height	1.114 in [28.3 mm]
Weight	0.2 lbs [90.72 g]
Mating Cycles	500 Cycles
Mating Torque	4.1 to 6.1 in-lbs [[0.46 to 0.69 Nm]]

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Material Specifications

Description	Material	Plating
Contact	Phosphor Bronze	Gold over Nickel over Copper
Insulation	PTFE	
Outer Conductor	Brass	Copper-Tin-Zinc Alloy
Body	Brass	Copper-Tin-Zinc Alloy
Retaining Ring	Phosphor Bronze	Copper-Tin-Zinc Alloy
Gasket	Silicone	
Crimp Sleeve	Copper	Copper-Tin-Zinc Alloy

Environmental Specifications

Temperature

Operating Range
Humidity
Thermal Shock
Salt Spray

-65 to +165 deg C
MIL-STD-202, Method 106
MIL-STD-202, Method 107, Condition B
MIL-STD-202, Method 101, Condition B

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

RP-TNC Plug Connector Crimp/Solder Attachment for RG214, RG9, RG225, RG393 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: [RP-TNC Plug Connector Crimp/Solder Attachment for RG214, RG9, RG225, RG393 PE517807](#)

URL: <https://www.pasternack.com/tnc-male-reverse-polarity-rg214-rg9-rg225-rg393-connector-pe517807.html>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE517807 CAD Drawing

RP-TNC Plug Connector Crimp/Solder Attachment for RG214, RG9, RG225, RG393

ASSEMBLY INSTRUCTIONS

1. STRIP CABLE AS SHOWN.

2. SLIDE FERRULE C OVER CABLE.

3. PUT CONTACT B ON CENTER CONDUCTOR AND SOLDER OR CRIMP IN Y. USE 0.3mm GAGE ST-0.3.

4. LOOSEN BRAIDING AND SLIDE CONNECTOR A IN PLACE.

5. SLIDE FERRULE C TOWARDS CONNECTOR A AND CRIMP.

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A		INITIAL RELEASE	04/04/2025	KGLEBOVA	AGAWANIANI

CONTACT

FERRULE

CRIMP SIZE REQUIRED:

- CONTACT: 100 [2.5] HEX CRIMP TOOL.
- FERRULE: .421 [10.7] HEX CRIMP TOOL.

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DESCRIPTION: RP TNC MALE CONNECTOR CRIMP/SOLDER ATTACHMENT FOR RG214, RG9, RG225, RG393

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES. FOLLOWING DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES. FOLLOWING DIMENSIONS ARE IN MILLIMETERS.

$X = \pm .02$ [0.5]	$Y = \pm .01$ [0.25]	$Z = \pm .005$ [0.13]	$A = .132$
$XX = \pm .02$ [0.5]	$YY = \pm .01$ [0.25]	$ZZ = \pm .005$ [0.13]	$ANGLES: \pm .5^\circ$

CABLE LENGTH TOLERANCES:

$51.7 [30.5] \leq L \leq 50.5 [30.0]$	$X = +1$ [25]	$Y = -2$ [51]	$Z = -2$ [51]
$> 60 [34.9] \leq L \leq 59 [34.5]$	$X = +2$ [25]	$Y = +4$ [51]	$Z = +4$ [51]
$> 70 [39.0] \leq L \leq 69 [38.6]$	$X = +2$ [25]	$Y = +4$ [51]	$Z = +4$ [51]
$> 80 [44.1] \leq L \leq 79 [43.7]$	$X = +2$ [25]	$Y = +4$ [51]	$Z = +4$ [51]
$> 90 [49.2] \leq L \leq 89 [48.8]$	$X = +2$ [25]	$Y = +4$ [51]	$Z = +4$ [51]

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UNDIMENTIONED CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLOURS MAY VARY.

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE SHEET

SIZE A CAGE CODE 53919 DRAWN BY KGLEBOVA ITEM NO. PE517807 REV A

DS Rev-D 04/26