



SMA Male Connector Clamp/Solder Attachment for RG316, RG174, LMR-100

RF Connectors Technical Data Sheet

PE45142

Configuration

- SMA Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG316, RG174, LMR-100
- 5/16 Inch Hex

Features

- Max. Operating Frequency 3 GHz
- Excellent VSWR of 1.25:1
- Gold Plated Brass Contact
- 50µ in. minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45142 SMA male connector with clamp/solder attachment for RG316, RG174 and LMR-100 is part of our full line of RF components available for same-day shipping. Our SMA male connector operates up to a maximum frequency of 3 GHz and offers excellent VSWR of 1.25:1.

Our SMA male connector PE45142 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			1.25:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size	
Length	0.646 in [16.41 mm]
Width/Dia.	0.315 in [8.00 mm]
Weight	0.018 lbs [8.16 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Clamp/Solder Attachment for RG316, RG174, LMR-100 PE45142](#)



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Material Specifications

Description	Material	Plating
Contact	Brass	Gold 50μ in. minimum
Insulation	Teflon	
Body	Brass	Gold 3μ in. minimum
Coupling Nut	Brass	Gold 3μ in. minimum

Mechanical Specification Notes:

When attaching the connector to the cable use a clamp torque value of 10 to 12 in-lbs [1.13 to 1.36 Nm]

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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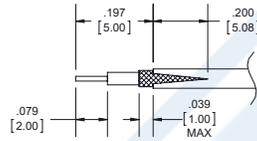
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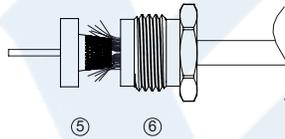
Assembly Instruction

ASSEMBLY PROCEDURES

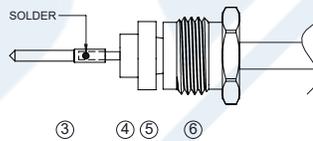
1. STRIP CABLE TO THE DIMENSIONS SHOWN. DO NOT NICK CENTER CONDUCTOR OR BRAID.



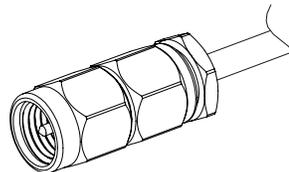
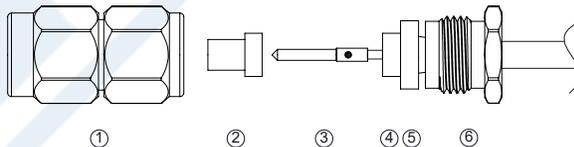
2. SLIDE NUT (6) INTO CABLE AND FLARE BRAID. INSERT BRAID CLAMP (5) OVER DIELECTRIC OF CABLE AND FORM BRAID OVER PROXIMAL OF BRAID CLAMP AS SHOWN AND THEN PRESS IT TIGHT FIT WITH THE NUT TO KEEP CABLE NOT MOVE.



3. SLIDE INSULATION 1 (4) AND PRESS IT TO BRAID CLAMP (5) TO KEEP CENTER CONDUCTOR STRAIGHT AND CENTER. INSERT CENTER CONTACT (3) INTO CABLE ASSEMBLY AND SOLDER CONTACT TO CENTER CONDUCTOR. REMOVE EXCESS SOLDER.



4. SLIDE INSULATION 2 (2) OVER THE CONTACT (3) THEN INSERT CABLE ASSEMBLY INTO BODY (1) & TIGHTEN.



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SMA Male Connector Clamp/Solder Attachment for RG316, RG174, LMR-100 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.

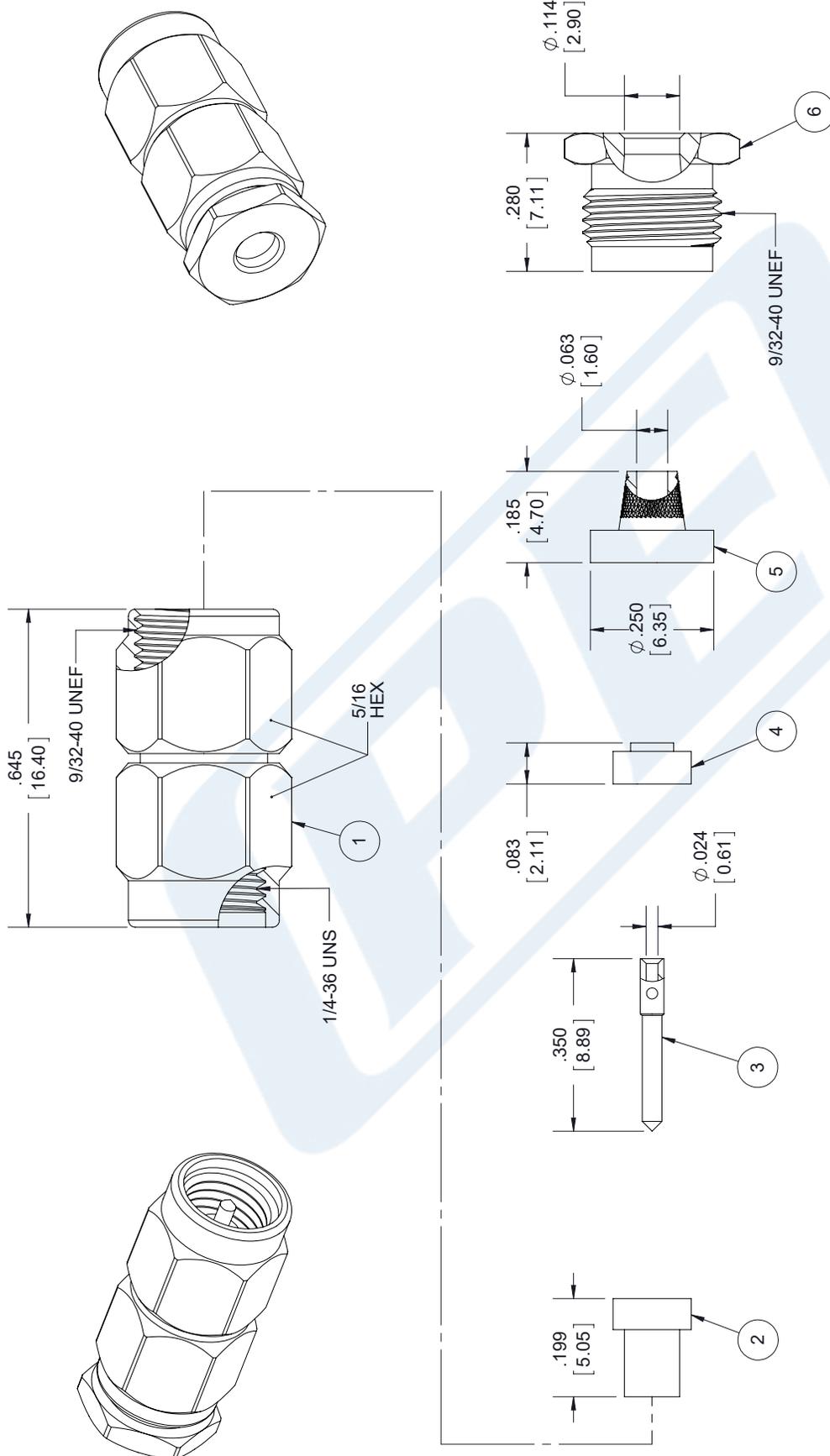
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male Connector Clamp/Solder Attachment for RG316, RG174, LMR-100 PE45142](https://www.pasternack.com/sma-male-rg316-rg174-lmr-100-connector-pe45142-p.aspx)

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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.

PE45142 CAD Drawing

SMA Male Connector Clamp/Solder Attachment for RG316, RG174, LMR-100



STANDARD TOLERANCES

.X ±0.2
.XX ±0.01
.XXX ±0.005

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES



THE ENGINEER'S RF SOURCE

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DWG TITLE

PE45142

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME
3. DIMENSIONS ARE IN INCHES [mm].

CAGE CODE 53919

CAD FILE 092517

SCALE N/A

SIZE A

7361