



High Performance SMA Female Solder / Clamp connectors for PE-P142LL Coax

RF Connectors Technical Data Sheet

PE44814

Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- PE-P142LL Interface Type
- Clamp/Solder Attachment
- Precision Design

Features

- Gold Platted Solder ferrules
- Stainless Steel Interface and connector Body
- Excellent VSWR to 18 Ghz
- Tuned specifically for use with 83% VoP Tape Style
- Low Loss Coax
- Compatible with Harbour LL142 Coax
- Easy to assemble multi Piece design

Description

Pasternack's solder/clamp connectors designed for use with our flexible PE-P142LL Low Loss coax offer excellent performance and durability. The multi piece design has been optimized for use with Low Loss tape wrapped coax having a 83% VoP. The stainless steel construction provides for over 500 mating cycles. These connectors are compatible with LL142 coax from Harbour Industries.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
VSWR			1.18:1	
Insertion Loss			0.25	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 22	22 to 26.5			GHz
VSWR, Max	1.14:1	1.16:1	1.18:1			
Insertion Loss, Max	0.21	0.23	0.25			dB

Mechanical Specifications

Size

Length 1.26 in [32 mm]
Width/Dia. 0.37 in [9.40 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female Precision Connector Clamp/Solder Attachment for PE-P142LL PE44814](#)



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Weight 0.017 lbs [7.71 g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold ASTM-B488, 50μ in. minimum
Insulation	PTFE	
Outer Conductor	Passivated Stainless Steel	SAE-AMS-2700
Body	Passivated Stainless Steel	SAE-AMS-2700

Environmental Specifications

Temperature

Operating Range -65 to 165 deg C

Compliance Certifications (visit www.Pasternack.com for current document)

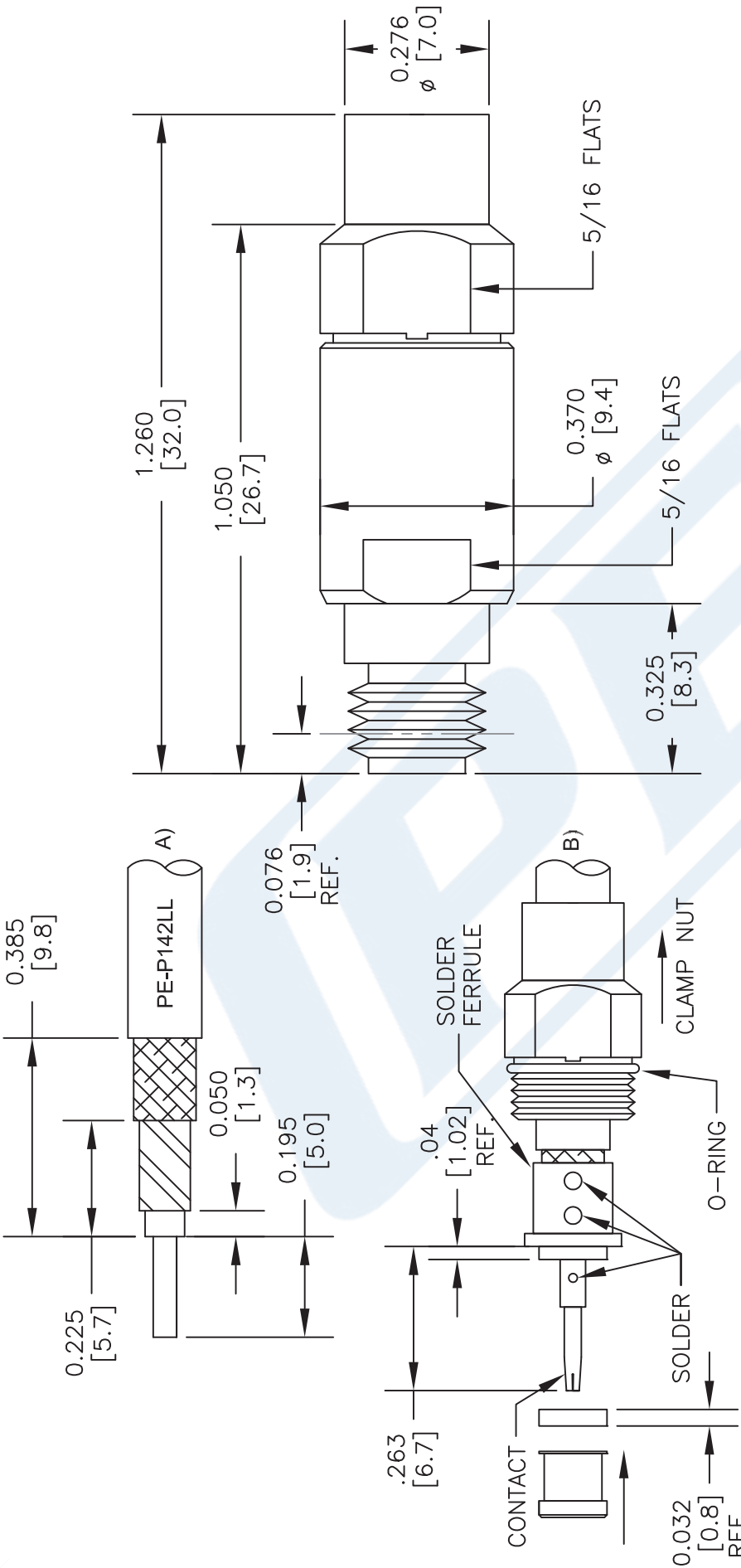
RoHS Compliant

REACH Compliant

01/01/1753

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STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. TRIM CABLE AS SHOWN IN (A)
2. SLIDE CLAMP NUT OVER CABLE AS SHOWN. SOLDER CABLE TO SOLDER FERRULE WITH DIELECTRIC FLUSH WITH FACE OF FERRULE. SLIDE DIELECTRIC STO (Ø.200 OD) OVER CABLE CENTER CONDUCTOR AND SOLDER CONTACT FLUSH TO STOP TO DIMENSION SHOWN. SLIDE FORWARD INSULATOR & DIELECTRIC BEAD (Ø 0.173 OD) ONTO CONTACT.
3. SCREW ASSEMBLY INTO BODY & TIGHTEN NUT.

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DWG TITLE

PE44814

- 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].
 4. FITS MIL-C-17 AND EQUIVALENT CABLES.

FSCM NO. 53919

CAD FILE 042313

SCALE N/A

SIZE A

2233