

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors Technical Data Sheet

PE4981

Configuration

- 3.5mm Male Connector
- 50 Ohms
- Straight Body Geometry
- PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-

SR402TN, RG402 Interface Type

- Clamp/Solder Attachment
- 5/16 inch Hex

Features

- Max. Operating Frequency 34 GHz
- Excellent VSWR of 1.2:1

- Gold over Nickel Plated Beryllium Copper Contact
- 50 μ in minimum contact plating

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE4981 3.5mm male connector with clamp/solder attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN and RG402 is part of our full line of RF components available for same-day shipping. Our 3.5mm male connector operates up to a maximum frequency of 34 GHz and offers excellent VSWR of 1.2:1.

Our 3.5mm male connector PE4981 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		34	GHz
VSWR			1.2:1	
Insertion Loss		0.233		dB
Operating Voltage (AC)		500		Vrms
Dielectric Withstanding Voltage (AC)		1,500		Vrms
High Potential Voltage			1,000	Vrms
5 to 7.5 MHz				
Corona Discharge @ 70000 ft			375	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage	-90			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR-402FLJ, PE-SR402TN, RG402 PE4981](#)

3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors Technical Data Sheet

PE4981

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 12.4	12.4 to 26.5	26.5 to 34			GHz
VSWR, Max	1.1:1	1.14:1	1.2:1			

Electrical Specification Notes:
Insertion Loss is $0.04 * \text{sqrt}(F(\text{GHz}))$ dB

Mechanical Specifications

Size	
Length	0.86 in [21.84 mm]
Width/Dia.	0.32 in [8.13 mm]
Weight	0.012 lbs [5.44 g]
Mating Cycles	500 Cycles
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel 50 μ in minimum
Insulation	PCTFE	
Body	Passivated Stainless Steel	SAE-AMS-2700
Coupling Nut	Passivated Stainless Steel	SAE-AMS-2700
Gasket	Silicone Rubber	

Environmental Specifications

Temperature	
Operating Range	-65 to +150 deg C
Humidity	MIL-STD-202, METHOD 106, (NO VIBRATION)
Shock	MIL-STD-202, METHOD 213, CONDITION I
Vibration	MIL-STD-202, METHOD 204, CONDITION D
Thermal Shock	MIL-STD-202, METHOD 107, CONDITION B

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: **3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR-402FLJ, PE-SR402TN, RG402 PE4981**



3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

RF Connectors
Technical Data Sheet

PE4981

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

Plotted and Other Data

Notes:



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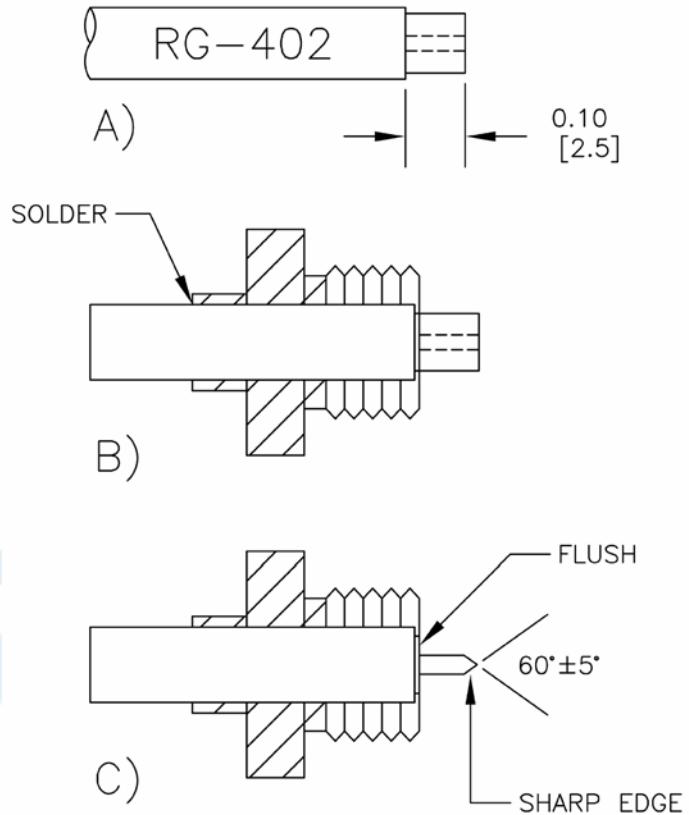
3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors
Technical Data Sheet

PE4981

Assembly Instruction



ASSEMBLY PROCEDURES

1. STRIP CALBE AS SHOWN IN (A). DO NOT NICK CENTER DIELECTRIC.
2. INSERT CABLE THROUGH CLAMP NUT AS SHOWN IN (B). SOLDER OUTER CONDUCTOR TO CLAMP NUT.
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RF Connectors Technical Data Sheet

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3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402 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.

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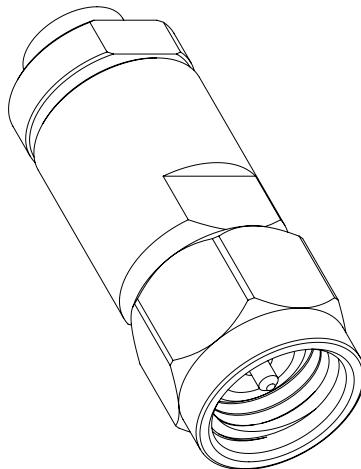
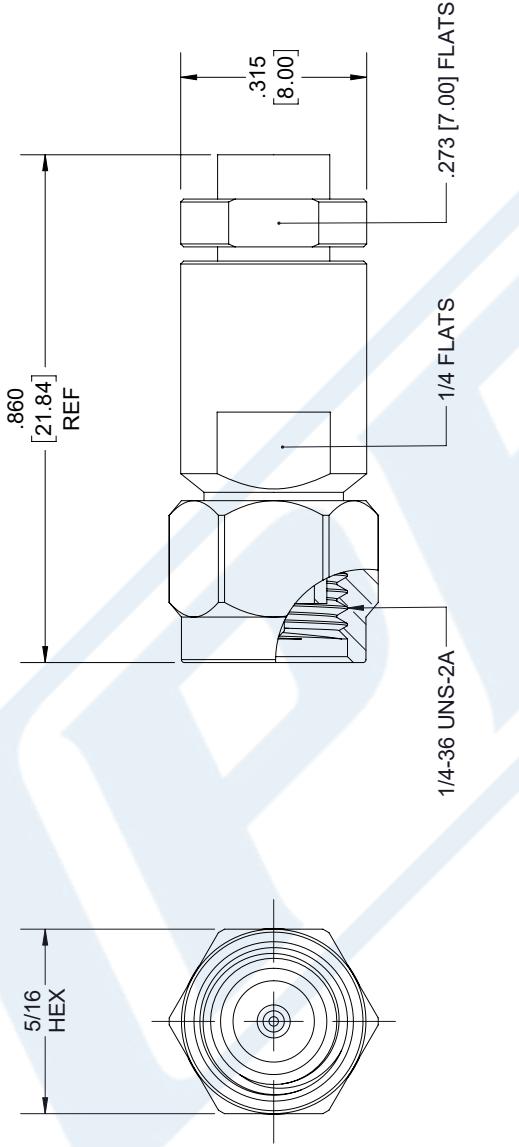
URL: <https://www.pasternack.com/3.5mm-male-pe-sr402al-pe-sr402fl-pe-sr402tn-rg402-connector-pe4981-p.aspx>

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PE4981 CAD Drawing

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PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
1.2	PCR PE4981 2019056	05/13/19	J.GARCIA	



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Fax: 1.949.261.7451	Fax: 1.949.261.7451
www.pasternack.com email: sales@pasternack.com	www.pasternack.com email: sales@pasternack.com
SCALE	N/A
SIZE	REV
CAGE	
A	1.2
53919	
K.Dang	
PE4981	

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3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402



RF Connectors Technical Data Sheet

PE4981

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Material Specifications

Description	Material	Plating
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Environmental Specifications

Temperature	
Operating Range	-65 to +150 deg C
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3.5mm Male Connector Clamp/Solder Attachment for PE-SR402AL, PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

RF Connectors
Technical Data Sheet

PE4981

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

Plotted and Other Data

Notes:



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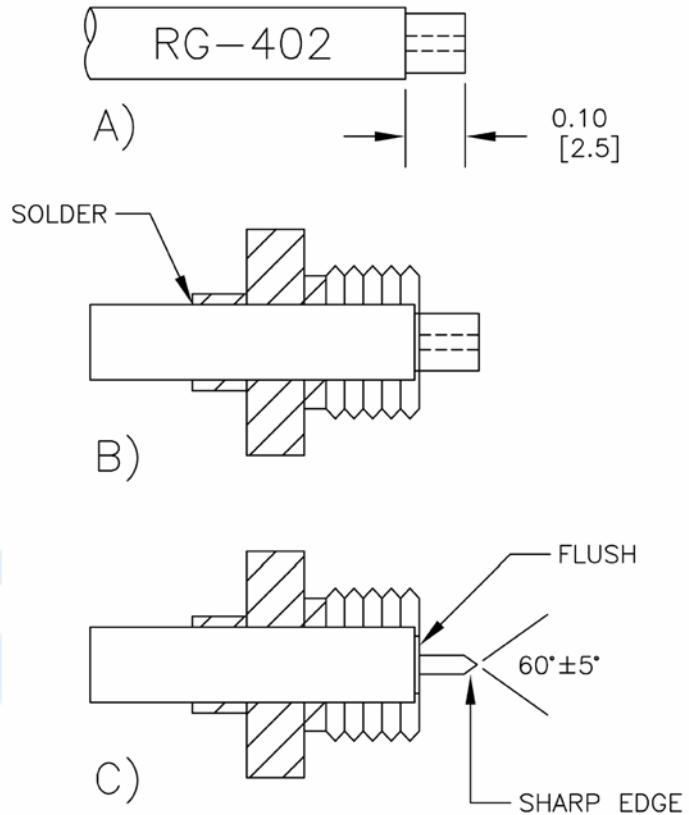
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Technical Data Sheet

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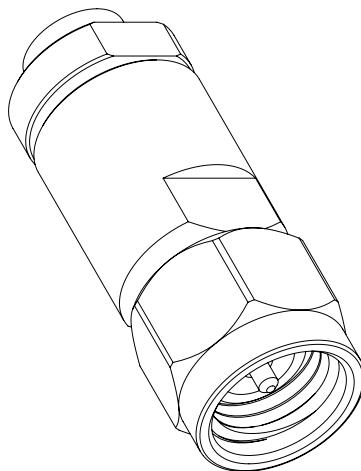
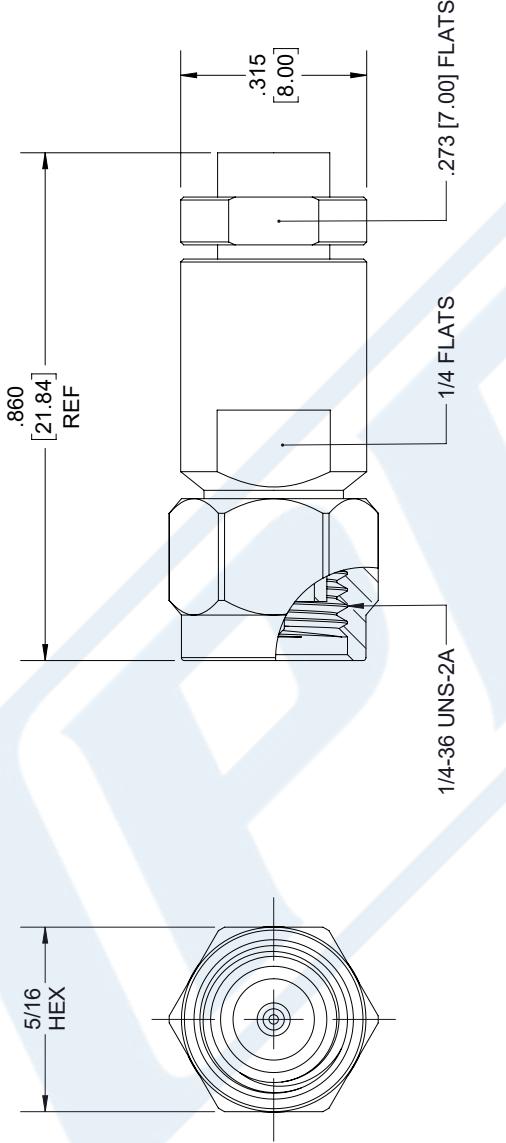
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PE4981 CAD Drawing

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PE-SR402FL, PE-SR402FLJ, PE-SR402TN, RG402

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
1.2	PCR PE4981 2019056	05/13/19	J.GARCIA	



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www.pasternack.com email: sales@pasternack.com	www.pasternack.com email: sales@pasternack.com
SCALE	N/A
SIZE	REV
CAGE	
A	1.2
53919	
K.Dang	
PE4981	

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0.141 Formable Non-Magnetic Cable with Silver Plated Copper Conductor

RF Cables Technical Data Sheet

PE-141FL-NM

Configuration

- Non-Magnetic Formable Cable
- 1 Shield(s)

Features

- Max Frequency 34 GHz
- Magnetic Susceptibility 10^{-5}

Applications

- General Purpose Test
- Custom Cable Assemblies
- Medical
- Military and Aerospace
- Quantum Computing

Description

Pasternack's 0.141 semi-rigid non-magnetic cable uses series coaxial is available for same-day shipping from our facility. PE-141FL-NM cables from Pasternack are great choices for solutions requiring high quality and rapid shipping. Our non-magnetic RF cable has a 50 Ohm impedance and is rated for a 34 GHz maximum operating frequency. This high-quality cable is part of a large selection of in-stock, commercial-off-the-shelf, and custom-built coaxial cable assemblies for RF and microwave that all ship the same business day as they are ordered.

These formable RF cable assemblies are built with RF shielding of 90 dB and have a cable weight of 1.32 lbs/ft. Our RF coaxial cable has a 0.036-inch SPC (silver-plated copper) conductor and a bending moment of 0.375 lbs-ft. The coaxial RF cable has a maximum attenuation of 109.02 dB/100ft at a frequency of 26.5 GHz.

The technical performance specifications of this 34 GHz cable are located on the PE-141FL-NM datasheet PDF, along with a CAD drawing and dimensions. Our non-magnetic RF cable has a PTFE dielectric type. This RF non-magnetic cable has a copper-tin composite outer conductor and a maximum operating temperature of 125 deg C. The Pasternack 0.141 semi-rigid RF cable assembly data sheet with specs and drawing dimensions can be found on this product page just above.

0.141 semi-rigid non-magnetic cable is one of a large selection of in-stock RF products available. Pasternack not only has this off-the-shelf but also custom versions of our cable assemblies are available for same-day shipping, we have thousands of other products that have same day shipping. Our expert technical support and knowledgeable sales teams are ready to help and answer your RF coaxial cable assembly questions.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		34	GHz
Impedance		50		Ohms
Velocity of Propagation		70		%
Shielding Effectiveness	90			dB
Operating Voltage (AC)			5,000	Vrms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [0.141 Formable Non-magnetic Cable with Silver Plated Copper Conductor PE-141FL-NM](#)



0.141 Formable Non-Magnetic Cable with Silver Plated Copper Conductor

RF Cables Technical Data Sheet

PE-141FL-NM

Performance by Frequency Band

Description	F1	F2	F3	F4	F5	Units
Frequency	0.5	1	5	10	18	GHz
Attenuation, Typ	11.2 36.75	16.2 53.15	39.2 128.61	59.4 194.88	85.2 279.53	dB/100ft dB/100m

Description	F6	F7	F8	F9	F10	Units
Frequency	26.5	40				GHz
Attenuation, Typ	109.2 358.27	142.9 468.83				dB/100ft dB/100m

Mechanical Specifications

Min. Bend Radius (Repeated) 0.375 in [9.53 mm]

Construction Specifications

Description	Material and Plating	Diameter
Inner Conductor	Silver Plated Copper, 1 Strand	0.036 in [0.91 mm]
Conductor Type	Solid	
Dielectric	PTFE PTFE	0.117 in [2.97 mm]
Outer Conductor	Copper-Tin Composite 100% coverage	0 in [0 mm]
Jacket	Copper	[]

Environmental Specifications

Temperature

Operating Range -55 to +200 deg C
Storage Range -55 to +200 deg C

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0.141 Formable Non-Magnetic Cable with Silver Plated Copper Conductor

RF Cables Technical Data Sheet

PE-141FL-NM

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

Plotted and Other Data

Notes:

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URL: <https://www.pasternack.com/non-magnetic-formable-pe-141fl-nm-copper-jacket-pe-141fl-nm-p.aspx>

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PE-141FL-NM CAD Drawing

0.141 Formable Non-Magnetic Cable with Silver Plated Copper Conductor

F

E

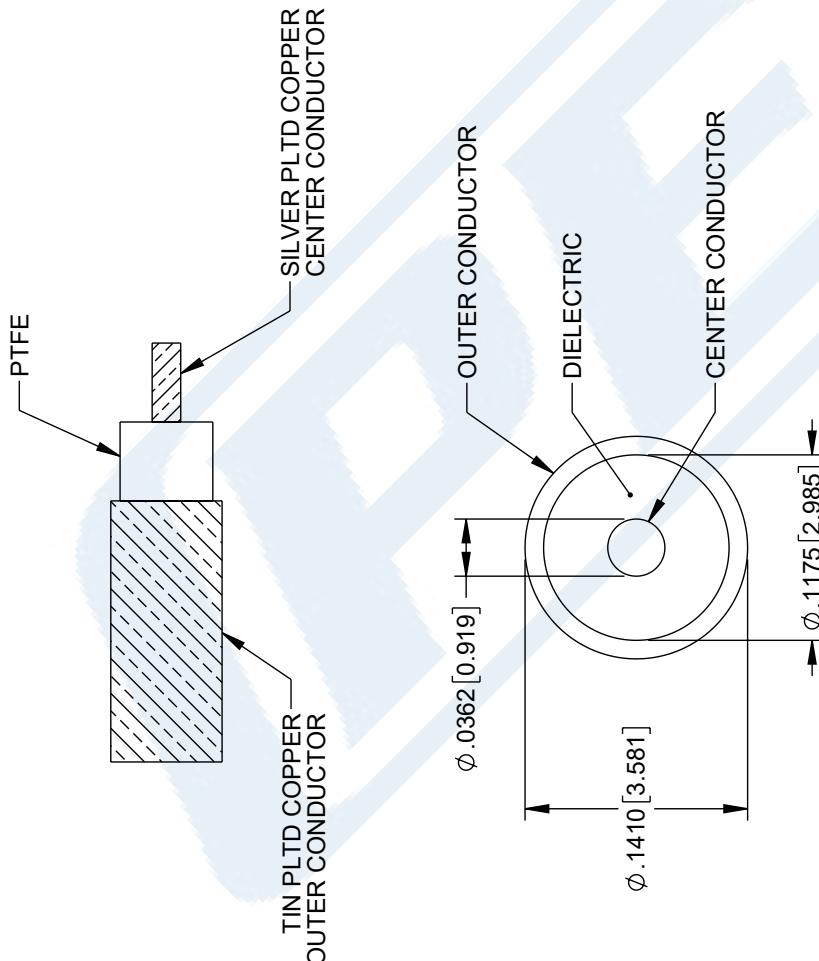
D

C

B

A

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
A	A	INITIAL RELEASE	08/01/2023	DZINN	AGANWAN



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5
X = ± 0.02 [0.5]	FRACTIONS $\pm 1/32$
XX = ± 0.005 [0.13]	ANGLES $\pm 1^\circ$
XXX = ± 0.0005 [0.013]	CABLE LENGTH TOLERANCES:
	\$12.305] = ± 1 [25] / -0 12.305] = ± 2 [51] / -0 >60.15245] = ± 1 [102] / -0 >60.15245] = ± 2 [152] / -0 >120.3048] = ± 4 [304.8] = ± 4 [102] / -0 >120.3048] = ± 8 [762.0] = ± 8 [152] / -0 >300 [762.0] = $\pm 8\%$ / -0
	DESCRIPTION
	PASTERNACK an INFINITI® brand
	Website: www.Pasternack.com
	Phone: 1.866.727.8376 1.949.261.1920
	SCALE
	None
	ITEM NO.
	PE-141FL-NM
	REV A

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