



## 2.4mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405

### RF Connectors Technical Data Sheet

PE44215

#### Configuration

- 2.4mm Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-SR405AL, PE-SR-405FL, RG405
- 5/16 inch Hex

#### Features

- Max. Operating Frequency 50 GHz
- Good VSWR of 1.3:1
- Gold over Nickel Plated Beryllium Copper Contact
- Contact plating according to MIL-G-45204

#### Applications

- General Purpose Test
- Custom Cable Assemblies

#### Description

Pasternack's PE44215 2.4mm male connector with solder attachment for PE-SR405AL, PE-SR405FL and RG405 is part of our full line of RF components available for same-day shipping. Our 2.4mm male connector operates up to a maximum frequency of 50 GHz and offers good VSWR of 1.3:1.

Our 2.4mm male connector PE44215 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		50	GHz
VSWR			1.3:1	
Insertion Loss			0.36	dB

Electrical Specification Notes:  
Insertion loss:  $0.05 \times \sqrt{f(\text{GHz})}$  dB.

#### Mechanical Specifications

<b>Size</b>	
Length	0.525 in [13.34 mm]
Width/Dia.	0.312 in [7.92 mm]
Weight	0.008 lbs [3.63 g]
Mating Cycles	500 Cycles
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE44215](#)



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**Material Specifications**

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PPO	
Body	Passivated Stainless Steel	ASTM-A380
Coupling Nut	Passivated Stainless Steel	ASTM-A380

**Environmental Specifications**

**Temperature**

Operating Range

-55 to +100 deg C

Vibration

MIL-STD-202, Method 204, Condition D (20 G's)

Salt Spray

MIL-STD-202, Method 101, Condition B, 5% salt solution

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

**Plotted and Other Data**

Notes:

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#### Assembly Instruction

**1.**

**1.0 PREPARATION OF CABLE:**

- 1.1 Trim cable to dimensions shown.
- 1.2 File blunt end of cable inner conductor to a 60°/90° Cone.
- 1.3 Remove burrs and sharp edges from outer conductor with scotch brite.
- 1.4 Dip prepared end of cable into flux, then into solder pot approx. 1/2 inch. Forming a thin coat of tin on the outer and inner conductor.  
(Remove Excess solder if needed) clean with solvent.

**2.**

**2.0 SOLDERING OF CENTER CONTACT TO INNER CABLE CONDUCTOR.**

- 2.1 Place shim on center conductor resting firmly against Cable Dielectric.
- 2.2 Heat center contact and slide it over inner conductor to rest firmly against shim.
- 2.3 Solder contact as shown using 60/40.
- 2.4 Remove excess solder and clean with solvent.

**3.**

**3.0 SOLDERING OF CABLE SUB-ASSEMBLY TO BODY.**

- 3.1 Form a ring (360°) with .010 solder around cable.
- 3.2 Thread mating tool into connector.
- 3.3 Insert cable Sub-Assembly into back of connector Housing until it bottoms. Place into Fixture and clamp cable to prevent movement while soldering.
- 3.4 Using resistive soldering iron, heat housing (Holding Downwards) until solder flows evenly around cable and housing.
- 3.5 Remove Mating tool and clean solder joint with solvent (alcohol). Verify that solder is FREE of voids.
- 3.6 Inspect center contact length from Reference Plane (.052/.058)

\*CAUTION: Avoid using cleaning fluids containing halogenated and aromatic hydrocarbons, these chemicals can cause damage to the center conductor support bead. (Use Isopropyl Alcohol for Cleaning Procedures.)

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2.4mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 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: [2.4mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405 PE44215](https://www.pasternack.com/2.4mm-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44215-p.aspx)

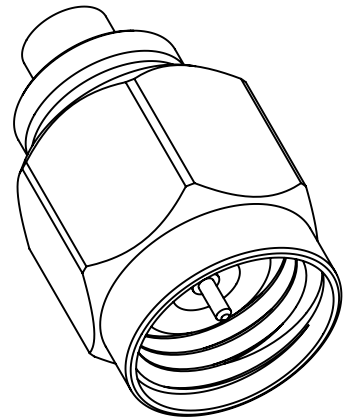
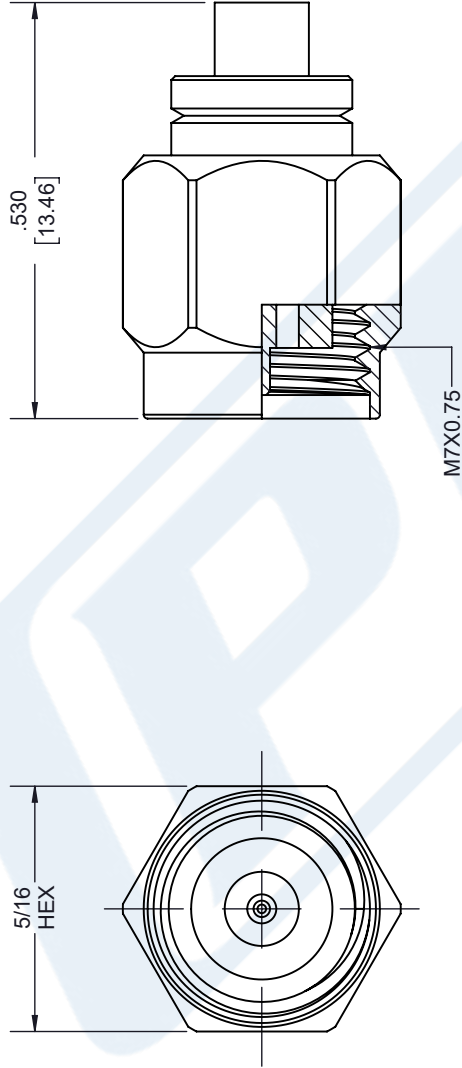
URL: <https://www.pasternack.com/2.4mm-male-standard-pe-sr405al-pe-sr405fl-rg405-connector-pe44215-p.aspx>

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.

# PE44215 CAD Drawing

2.4mm Male Connector Solder Attachment for PE-SR405AL, PE-SR405FL, RG405

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PCR PE44215	9/18/2020	S. ELLIS



UNLESS OTHERWISE SPECIFIED  
LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:  
 .X = ±.2 [ .008 ]    FRACTIONS ± 1/32  
 .XX = ±.02 [ .51 ]    ANGLES ± 1°  
 .XXX = ±.005 [ .13 ]

CABLE LENGTH (L) TOLERANCES:  
 L ≤ 12 [305] = +1 [25] / -0  
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
an INFINITE brand

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SCALE: N/A

SHEET 1 OF 2

THIRD-ANGLE PROJECTION

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SIZE: A    CAGE CODE: 53919    DRAWN BY: K.DANG    ITEM NO.: PE44215    REV: A