



BMA Jack MIL-STD-38999 (D38999) Connector
Solder Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45325

Configuration

- Snap-On BMA Jack Connector
- 50 Ohms
- Straight Body Geometry
- RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ Interface Type
- Solder/Solder Attachment

Features

- Max. Operating Frequency 22 GHz
- Good VSWR of 1.27:1
- Gold Plated Beryllium Copper Contact
- 51.18µ in. minimum contact plating
- Blind Mate Connector
- IP54(Mated)
- Low-Engagement Force
- Radial and Axial Float Versions

Applications

- General Purpose Test
- Custom Cable Assemblies
- Blind Mating
- Rack and Panel
- Phased Array Systems
- Base Stations
- RF Backplanes
- Test I/O

Description

Pasternack's PE45325 BMA jack snap-on connector with solder/solder attachment for RG405, PE-SR405AL, PE-SR405FL and PE-SR405FLJ is part of our full line of RF components available for same-day shipping. Our BMA jack connector operates up to a maximum frequency of 22 GHz and offers good VSWR of 1.27:1. The Pasternack blind mate connector is ideal for applications where direct visual or tactile access to the connection point is not possible, for example, when two circuit boards need to be mated.

Our BMA jack connector PE45325 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 | | 22 | GHz |
| VSWR | | | 1.27:1 | |
| Insertion Loss | | | 0.14 | dB |
| Operating Voltage (AC) | | | 500 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,000 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [BMA Jack MIL-STD-38999 \(D38999\) Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ PE45325](#)



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PE-SR405FL, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45325

Mechanical Specifications

Size

| | |
|---------------|--------------------|
| Length | 0.84 in [21.34 mm] |
| Width/Dia. | 0.315 in [8.00 mm] |
| Weight | 0.007 lbs [3.18 g] |
| Mating Cycles | 1,000 Cycles |

Material Specifications

| Description | Material | Plating |
|-----------------|------------------|----------------------------|
| Contact | Beryllium Copper | Gold 51.18μ in. minimum |
| Insulation | PTFE | |
| Outer Conductor | Beryllium Copper | Gold |
| Body | Stainless Steel | Gold 19.68μ in. minimum |

Mechanical Specification Notes:

Recommended axial float mount for best electrical performance: 0.51 +/- 0.25 mm (.020" +/- .010)

Environmental Specifications

Temperature

| | |
|--------------------------------|-------------------|
| Operating Range | -40 to +105 deg C |
| Ingress Protection (IP) Rating | IP54(Mated) |

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BMA Jack MIL-STD-38999 (D38999) Connector
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PE-SR405FL, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45325

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

Plotted and Other Data

Notes:

BMA Jack MIL-STD-38999 (D38999) Connector Solder Attachment for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ 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.

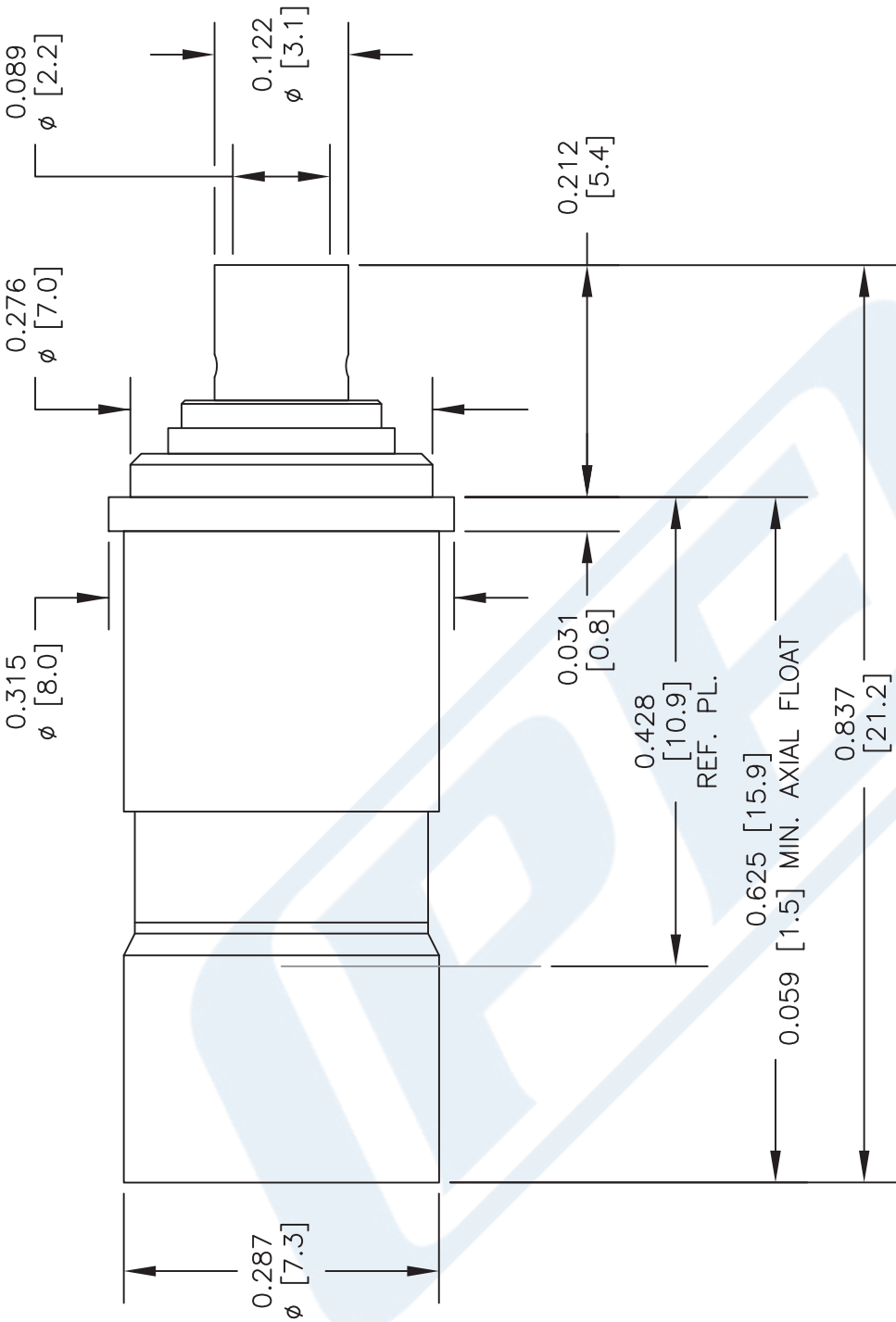
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URL: <https://www.pasternack.com/bma-jack-snap-on-rg405-pe-sr405al-pe-sr405fl-pe-sr405flj-connector-pe45325-p.aspx>

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PE45325 CAD Drawing

BMA Jack MIL-STD-38999 (D38999) Connector Solder Attachment
for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ



| STANDARD TOLERANCES | |
|---------------------|-------|
| .X | ±0.2 |
| .XX | ±0.1 |
| .XXX | ±0.05 |

*STANDARD TOLERANCES APPLY
ONLY TO DIMENSIONS IN INCHES

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
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DWG TITLE
PE45325

2233

SIZE A

SCALE N/A

CAD FILE 020817

CAGE CODE 53919

PE PASTERNAK®
THE ENGINEER'S RF SOURCE
Pasternack Enterprises, Inc.
P.O. Box 16759 | Irvine | CA | 92623
Phone: (949) 261-1920 | Fax: (949) 261-7451
Website: www.pasternack.com | E-Mail: sales@pasternack.com

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SLIDE CABLE INTO CONNECTOR INSURING CENTER CONDUCTOR MATES WITH CENTER PIN.
3. OUTER CONDUCTOR BOTTOMS OUT WITH BODY SHOULDER. SOLDER OUTER CONDUCTOR TO BODY.



BMA Jack MIL-STD-38999 (D38999) Connector
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| Description | Minimum | Typical | Maximum | Units |
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| Frequency Range | DC | | 22 | GHz |
| VSWR | | | 1.27:1 | |
| Insertion Loss | | | 0.14 | dB |
| Operating Voltage (AC) | | | 500 | Vrms |
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| Insulation Resistance | 5,000 | | | MOhms |

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Solder Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ

RF Connectors Technical Data Sheet

PE45325

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Mechanical Specification Notes:

Recommended axial float mount for best electrical performance: 0.51 +/- 0.25 mm (.020" +/- .010)

Environmental Specifications

Temperature

| | |
|--------------------------------|-------------------|
| Operating Range | -40 to +105 deg C |
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Solder Attachment for RG405, PE-SR405AL,
PE-SR405FL, PE-SR405FLJ**

RF Connectors Technical Data Sheet

PE45325

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

Plotted and Other Data

Notes:

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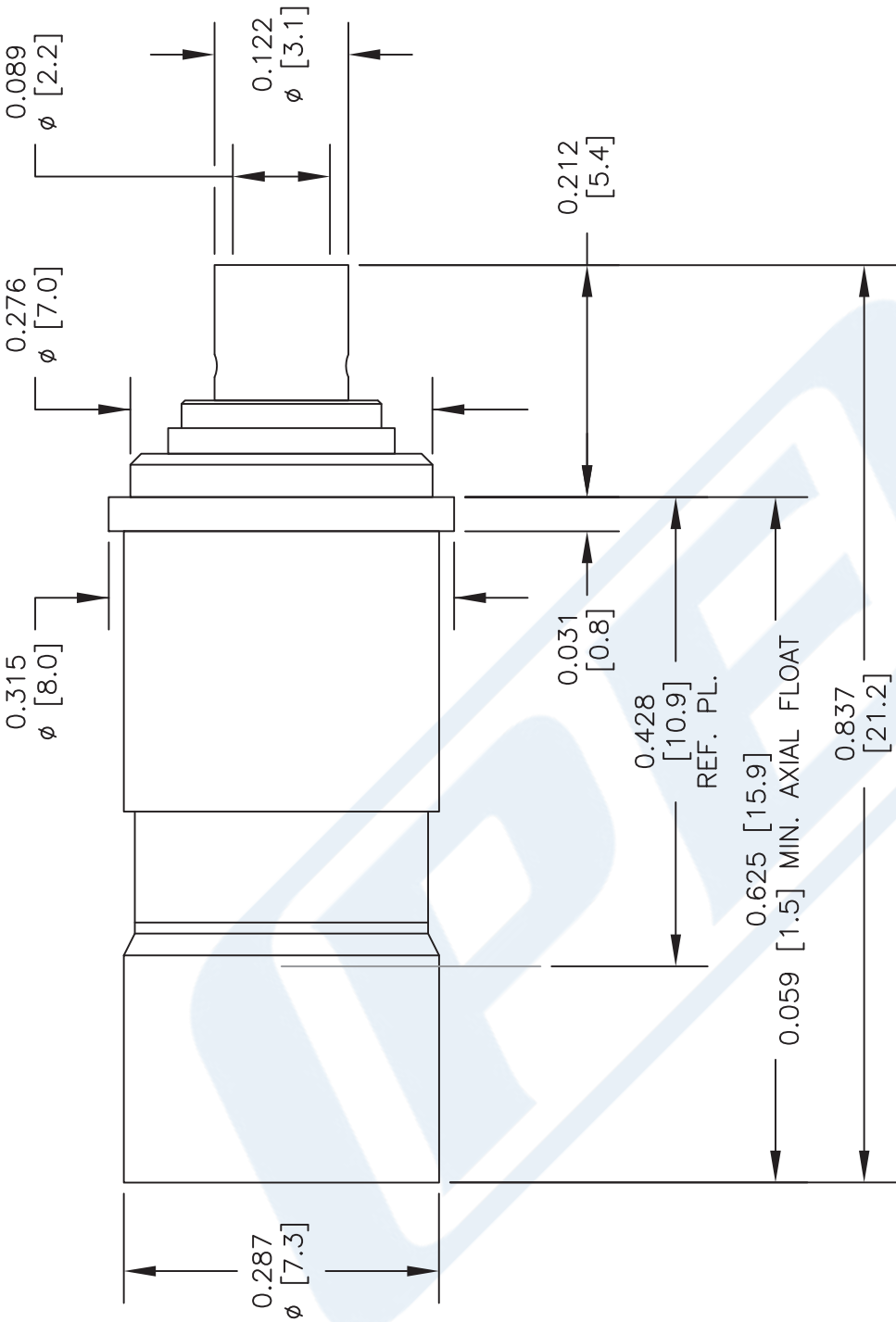
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URL: <https://www.pasternack.com/bma-jack-snap-on-rg405-pe-sr405al-pe-sr405fl-pe-sr405flj-connector-pe45325-p.aspx>

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PE45325 CAD Drawing

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for RG405, PE-SR405AL, PE-SR405FL, PE-SR405FLJ



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|---------------------|-------|
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| .XX | ±0.1 |
| .XXX | ±0.05 |

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SIZE A

SCALE N/A

CAD FILE 020817

CAGE CODE 53919

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ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SLIDE CABLE INTO CONNECTOR INSURING CENTER CONDUCTOR MATES WITH CENTER PIN.
3. OUTER CONDUCTOR BOTTOMS OUT WITH BODY SHOULDER. SOLDER OUTER CONDUCTOR TO BODY.

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor

RF Cables Technical Data Sheet

PE-SR405TN

Configuration

- Semi-Rigid Cable
- MIL-C-17
- 1 Shield(s)

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|-----------------|---------|---------|---------|-------|
| Frequency Range | DC | | 40 | GHz |
| Impedance | | 50 | | Ohms |

Performance by Frequency Band

| Description | F1 | F2 | F3 | F4 | F5 | Units |
|-----------------------|-------|--------|-------|----|----|----------|
| Frequency | 1 | 10 | 20 | | | GHz |
| Attenuation, Typ | 22 | 80 | 120 | | | dB/100ft |
| | 72.18 | 262.47 | 393.7 | | | dB/100m |
| Input Power (CW), Max | 130 | 35 | 20 | | | Watts |

Mechanical Specifications

Min. Bend Radius (Installation) 0.05 in [1.27 mm]

Construction Specifications

| Description | Material and Plating | Diameter |
|-----------------|-------------------------------------|--------------------|
| Inner Conductor | Copper Clad Steel, Silver, 1 Strand | 0.02 in 0.51 mm |
| Conductor Type | Solid | |
| Dielectric | PTFE | 0.066 in [1.68 mm] |
| First Shield | Tinned Copper | 0.087 in 2.21 mm |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN](#)

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor

RF Cables Technical Data Sheet

PE-SR405TN

Environmental Specifications

Temperature

Operating Range

-55 to +125 deg C

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

Plotted and Other Data

Notes:

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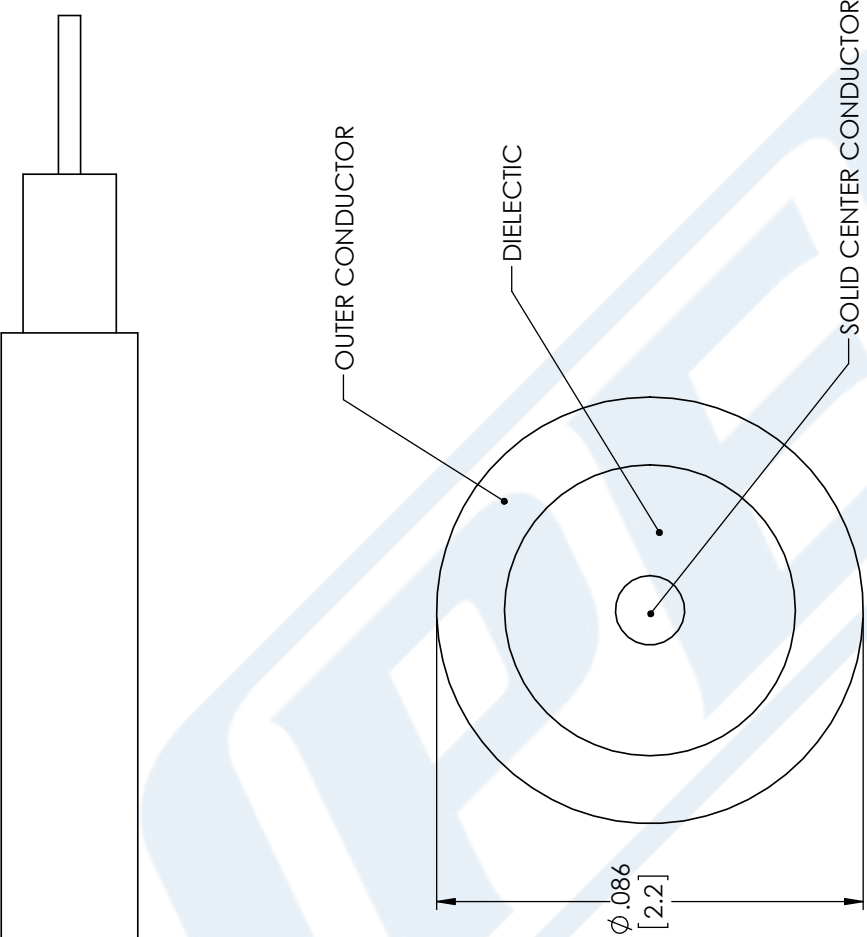
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RG405 Tinned Coax Cable with Tinned Copper Outer Conductor PE-SR405TN](#)

URL: <https://www.pasternack.com/50-ohm-semi-rigid-rg405-tinned-tinned-copper-pe-sr405tn-p.aspx>

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PE-SR405TN CAD Drawing

RG405 Tinned Coax Cable with Tinned Copper Outer Conductor



| STANDARD TOLERANCES | |
|---------------------|--------|
| .X | ±0.2 |
| .XX | ±0.01 |
| .XXX | ±0.005 |

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[PE]

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| | |
|-----------|------------|
| DWG TITLE | PE-SR405TN |
| CAGE CODE | 53919 |

| | | | | | | | |
|---|----------|----------|-------|-----|------|---|--------|
| 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]. | CAD FILE | 11/28/17 | SCALE | N/A | SIZE | A | CN2245 |
|---|----------|----------|-------|-----|------|---|--------|