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# Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

## RF Connectors
## Technical Data Sheet

**PE45539**

## Configuration

- Mini SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL
- VITA 67 Design

## Features

- Max. Operating Frequency 40 GHz
- Good VSWR of 1.45:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to ASTM B488
- Blind Mate Connector
- Coaxial interconnects on VPX platforms
- Standard MIL-STD-348 SMPM interface
- Rugged Stainless Steel construction
- Accepts 0.047” and 0.086” cable contacts for end-to-end solution

## Applications

- General Purpose Test
- Custom Cable Assemblies
- Robust and Rugged high speed cabled solution
- VITA 67 Backplane
- High Density Applications

### Description

Pasternack’s PE45539 4-position block housing is part of our full line of VITA 67 Backplane solutions and is available for same-day shipping. Pasternack introduces 4 position (VITA 67.1) and 8 position (VITA 67.2) RF connector housings designed for 3U and 6U formats within the OpenVPX architecture. These blocks are machined from stainless steel for a rugged solution. The blocks are designed to accept both PE45535 (0.047” cable contact) & PE45536 (.086” cable contact) used in flexible or semi-rigid cables. These blocks are ideal for blind mating daughtercards to motherboards as the RF contacts provide +/- .010” radial misalignment tolerance and have excellent return loss up to 40 GHz.

The SMPM (Mini-SMP) 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. The block’s right angle body geometry allows for easier connections in tight spaces.

Our SMPM (Mini-SMP) right angle block PE45539 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 | | 40 | GHz |
| VSWR | | | 1.45:1 | |
| Dielectric Withstanding Voltage (AC) | | | 325 | Vrms |
| Inner Conductor DC Resistance | | | 6 | mOhms |
| Outer Conductor DC Resistance | | | 5 | mOhms |
| 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: Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL PE45539

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**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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# Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

**RF Connectors**
**Technical Data Sheet** **PE45539**

## Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.42 in [10.67 mm] |
| Width/Dia. | 0.19 in [4.83 mm] |
| Height | 0.19 in [4.83 mm] |
| Weight | 0.0016 lbs [0.73 g] |
| Mating Cycles | 500 Cycles |

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | Beryllium Copper | Gold<br>ASTM B488 |
| Insulation | PEI | |
| Body | Brass | Gold<br>ASTM B488 |
| Retaining Ring | Beryllium Copper | Nickel<br>SAE-AMS-QQ-N-290 |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -55 to +125 deg C |
| Humidity | 1,000 megohms within 5 minutes after removal from humidity, tested per MIL-STD-202, Method 106 |
| Shock | Sawtooth pulse of 100 g 6ms per MIL-STD-202, Method 213, Condition I |
| Vibration | MIL-STD-202, Method 214, Test Condition I, Curve D |
| Thermal Shock | MIL-STD-202, Method 107, Test Condition A |

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

## Plotted and Other Data

Notes:

Click the following link (or enter part number in “SEARCH” on website) to obtain additional part information including price, inventory and certifications: Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL PE45539

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# Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL

## RF Connectors
## Technical Data Sheet

**PE45539**

Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL 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: Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL PE45539

URL: https://www.pasternack.com/mini-smp-male-pe-p047-pe-p047ll-pe-sr047fl-connector-pe45539-p.aspx

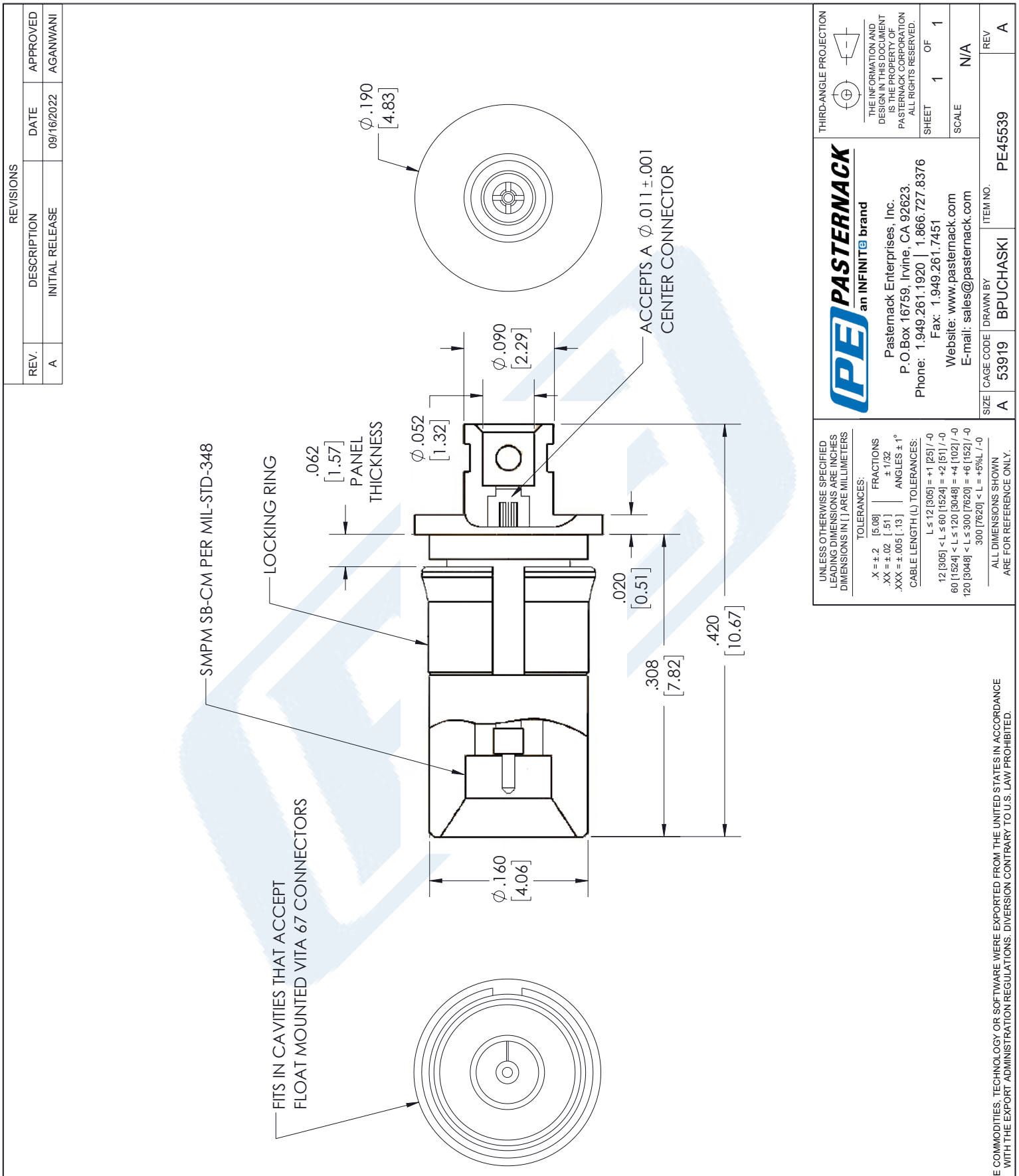
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# PE45539 CAD Drawing

Mini SMP Male VITA 67 Connector Solder Attachment for PE-P047, PE-P047LL, PE-047SR, PE-SR047FL, PE-SR047AL




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# BNC Female Connector Solder Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL, PE-SR047AL, IP68 Rated

## RF Connectors Technical Data Sheet PE44888

## Configuration

- BNC Female Connector
- MIL-STD-348
- 50 Ohms
- Straight Body Geometry
- PE-047SR, PE-SR047FL, PE-SR047AL Interface Type
- Solder/Solder Attachment
- 4 Hole Flange

## Features

- Max. Operating Frequency 2 GHz
- Excellent VSWR of 1.09:1
- Gold Plated Brass Contact
- IP68 Rated (Unmated)

## Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies

### Description

Pasternack's PE44888 BNC female 4 hole flange mount connector with solder/solder attachment for PE-047SR, PE-SR047FL and PE-SR047AL is part of our full line of RF components available for same-day shipping. Our BNC female connector operates up to a maximum frequency of 2 GHz and offers excellent VSWR of 1.09:1. This BNC 4 hole flange connector allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The connector has an IP68 rating to protect against dust and prolonged moisture protection under immersion conditions.

Our BNC female 4 hole flange connector PE44888 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 | | 2 | GHz |
| VSWR | | | 1.09:1 | |
| Operating Voltage (AC) | | | 125 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 375 | Vrms |

### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 0.72 in [18.29 mm] |
| Width/Dia. | 0.68 in [17.27 mm] |
| Height | 0.56 in [14.22 mm] |
| Weight | 0.01 lbs [4.54 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: BNC Female Connector Solder Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL, PE-SR047AL, IP68 Rated PE44888

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# BNC Female Connector Solder Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL, PE-SR047AL, IP68 Rated



Mating Cycles 500 Cycles

**Material Specifications**

| Description | Material | Plating |
|---|---|---|
| Contact | Brass | Gold |
| Insulation | PTFE | |
| Body | Passivated Stainless Steel | |

## Environmental Specifications

**Temperature**

| | |
|---|---|
| Operating Range | -65 to +165 deg C |
| Ingress Protection (IP) Rating | IP68 Rated (Unmated) |

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

## Plotted and Other Data

Notes:

BNC Female Connector Solder Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL, PE-SR047AL, IP68 Rated from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: BNC Female Connector Solder Attachment 4 Hole Flange Mount for PE-047SR, PE-SR047FL, PE-SR047AL, IP68 Rated PE44888

URL: https://www.pasternack.com/bnc-female-pe-047sr-pe-sr047fl-pe-sr047al-connector-pe44888-p.aspx

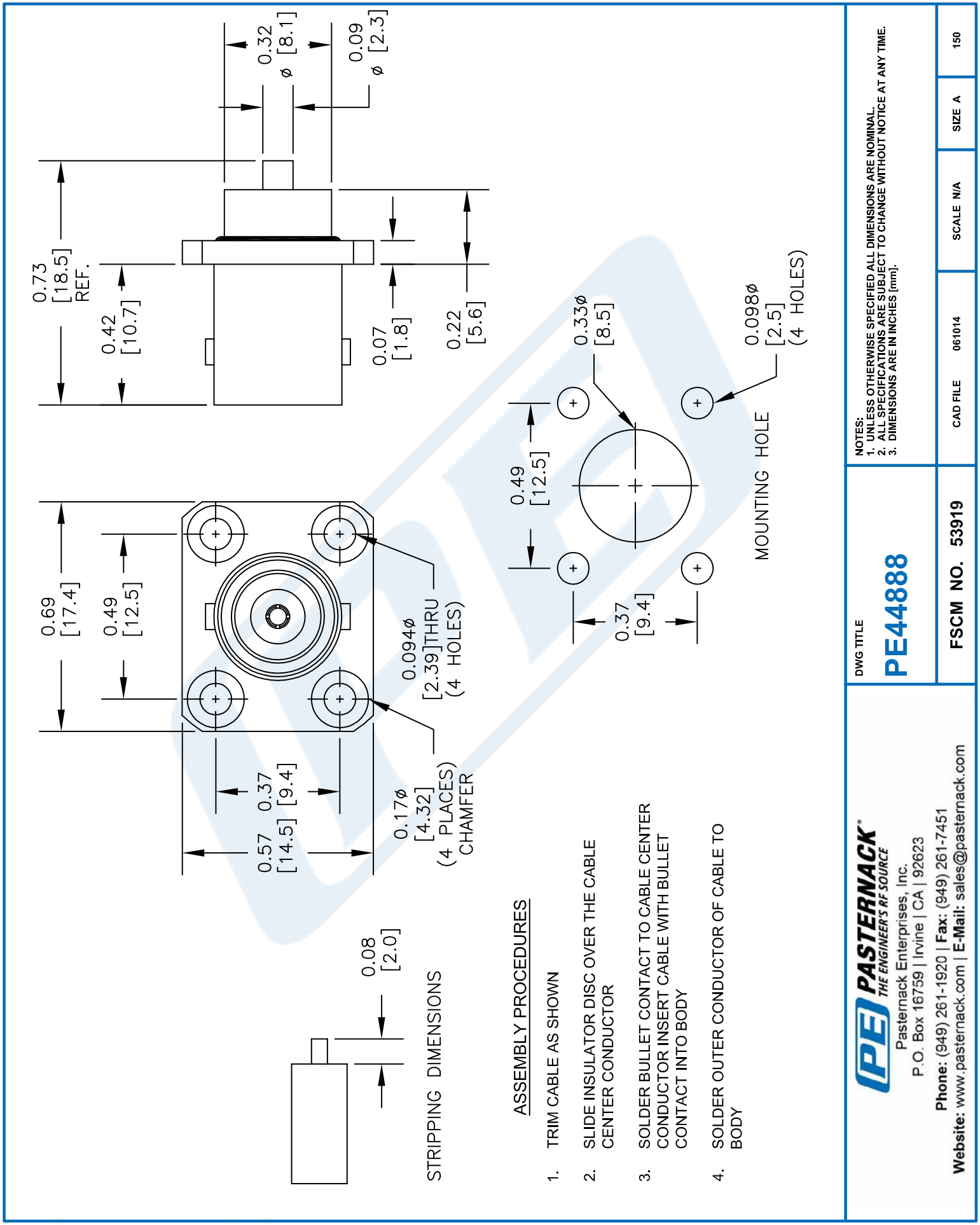
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# PE44888 CAD Drawing

BNC Female Connector Solder Attachment 4 Hole Flange Mount
for PE-047SR, PE-SR047FL, PE-SR047AL, IP68 Rated




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# 047 Semi-rigid Coax Cable with Copper Outer Conductor

## TECHNICAL DATA SHEET PE-047SR

### Configuration

| | |
|---|---|
| Inner Conductor Material and Plating | Copper Clad Steel, Silver |
| Dielectric Type | PTFE |
| Shield Materials | Copper |

### Electrical Specifications

| | |
|---|---|
| Impedance, Ohms | 50 |
| Maximum Operating Frequency, GHz | 40 |
| Dielectric Withstanding Voltage, Vrms | 2,000 |

**Electrical Specifications by Frequency**

**Frequency 1**

| | |
|---|---|
| Frequency, MHz | 1000 |
| Attenuation, dB/100ft [dB/100m] | 40 [131.23] |
| Power Handling, Watts | 32 |

**Frequency 2**

| | |
|---|---|
| Frequency, GHz | 10 |
| Attenuation, dB/100ft [dB/100m] | 130 [426.51] |
| Power Handling, Watts | 9 |

**Frequency 3**

| | |
|---|---|
| Frequency, GHz | 20 |
| Attenuation, dB/100ft [dB/100m] | 190 [623.36] |
| Power Handling, Watts | 6.5 |

### Mechanical Specifications

**Temperature**

| | |
|---|---|
| Operating Range, deg C | -55 to +100 |

**Inner Conductor**

| | |
|---|---|
| Number of Strands | 1 |
| Material | Copper Clad Steel |
| Plating | Silver |
| Diameter, in [mm] | 0.011 [0.28] |

**Dielectric:**

| | |
|---|---|
| Type | PTFE |
| Diameter, in [mm] | 0.037 [0.94] |

**Shield:**

| | |
|---|---|
| Number of | 1 |
| Material 1 | Copper |
| Diameter, in [mm] | 0.047 [1.19] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR

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# 047 Semi-rigid Coax Cable with Copper Outer Conductor

## TECHNICAL DATA SHEET PE-047SR

**Jacket:**

| | |
|---|---|
| Diameter, in [mm] | 0.047 [1.19] |
| One Time Minimum Bend Radius, in [mm] | 0.05 [1.27] |
| Weight, lbs/ft [Kg/m] | 0.005 [0.01] |

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

| | |
|---|---|
| RoHS Compliant | |
| REACH Compliant | 12/19/2011 |

**Plotted and Other Data**

Notes:

- Values at +25 °C, sea level

047 Semi-rigid Coax Cable with Copper Outer Conductor from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% 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: 047 Semi-rigid Coax Cable with Copper Outer Conductor PE-047SR

URL: http://www.pasternack.com/semirigid-0.047-50-ohm-coax-cable-copper-pe-047sr-p.aspx

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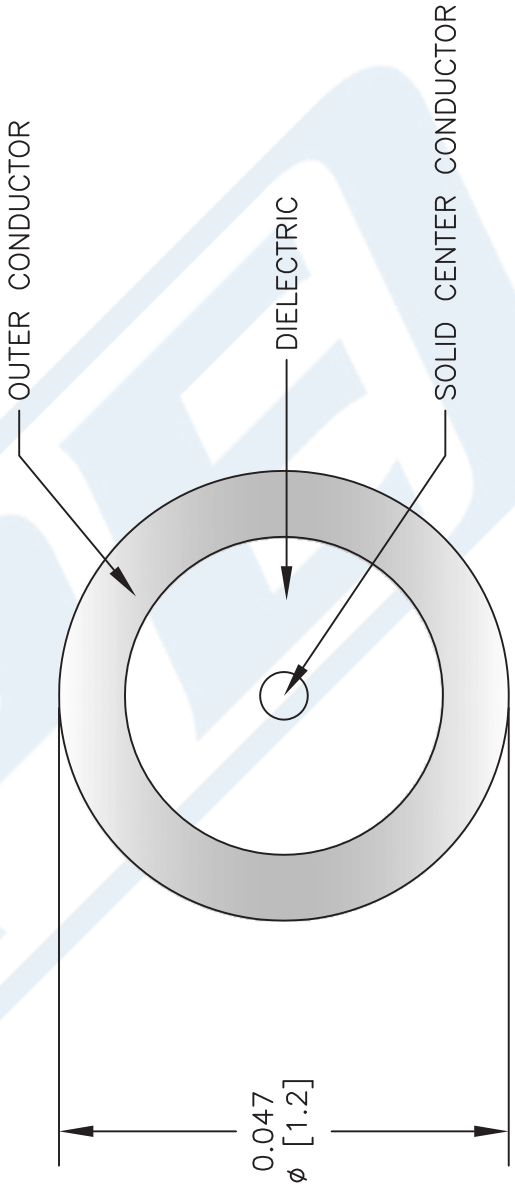
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# PE-047SR CAD Drawing

047 Semi-rigid Coax Cable with Copper Outer Conductor




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].

DWG TITLE **PE-047SR**

CAD FILE 073113 | SCALE N/A | SIZE A | 2233

FSCM NO. 53919

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