



SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 8 GHz

RF Connectors Technical Data Sheet

PE45249

Configuration

- SMP Female Connector
- MIL-STD-348A
- 50 Ohms
- Right Angle Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder Attachment

Features

- Max. Operating Frequency 8 GHz
- Excellent VSWR of 1.15:1
- Gold Plated Beryllium Copper Contact
- Contact plating according to MIL-DTL-45204
- Blind Mate Connector

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE45249 SMP female right angle connector with solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL is part of our full line of RF components available for same-day shipping. Our SMP female connector operates up to a maximum frequency of 8 GHz and offers excellent VSWR of 1.15:1. 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. Its right angle body geometry allows for easier connections in tight spaces. Pasternack 8 GHz SMP connectors are designed to offer a low cost alternative where the SMP form factor is desired but the standard SMP frequency range is not needed. The line of 8 GHz SMP connectors is fully compatible with industry standard SMP and GPO® connectors. These SMP connectors offer a low cost high performance blind-mate solution for lower frequency applications. The Male versions of the 8 GHz SMP is available in Full Detent, Limited Detent, and Smooth Bore versions.

Our SMP female right angle connector PE45249 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 | | 8 | GHz |
| VSWR | | | 1.15:1 | |

Mechanical Specifications

| Size | |
|------------|--------------------|
| Length | 0.28 in [7.11 mm] |
| Width/Dia. | 0.187 in [4.75 mm] |
| Weight | 0.002 lbs [0.91 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 8 GHz PE45249](#)



SMP Female Right Angle Connector Solder Attachment for
PE-047SR, PE-SR047AL, PE-SR047FL, Up To 8 GHz

RF Connectors
Technical Data Sheet

PE45249

Material Specifications

| Description | Material | Plating |
|-----------------|------------------|-----------------------|
| Contact | Beryllium Copper | Gold MIL-DTL-45204 |
| Insulation | PTFE | |
| Outer Conductor | Beryllium Copper | Gold |
| Body | Beryllium Copper | Gold MIL-DTL-45204 |

Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

Humidity

MIL-STD-202, Method 106 (except 7b omitted)

Shock

MIL-STD-202, Method 213, Condition I

Vibration

MIL-STD-202, Method 204, Condition D

Salt Spray

MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 8 GHz 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: [SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 8 GHz PE45249](#)

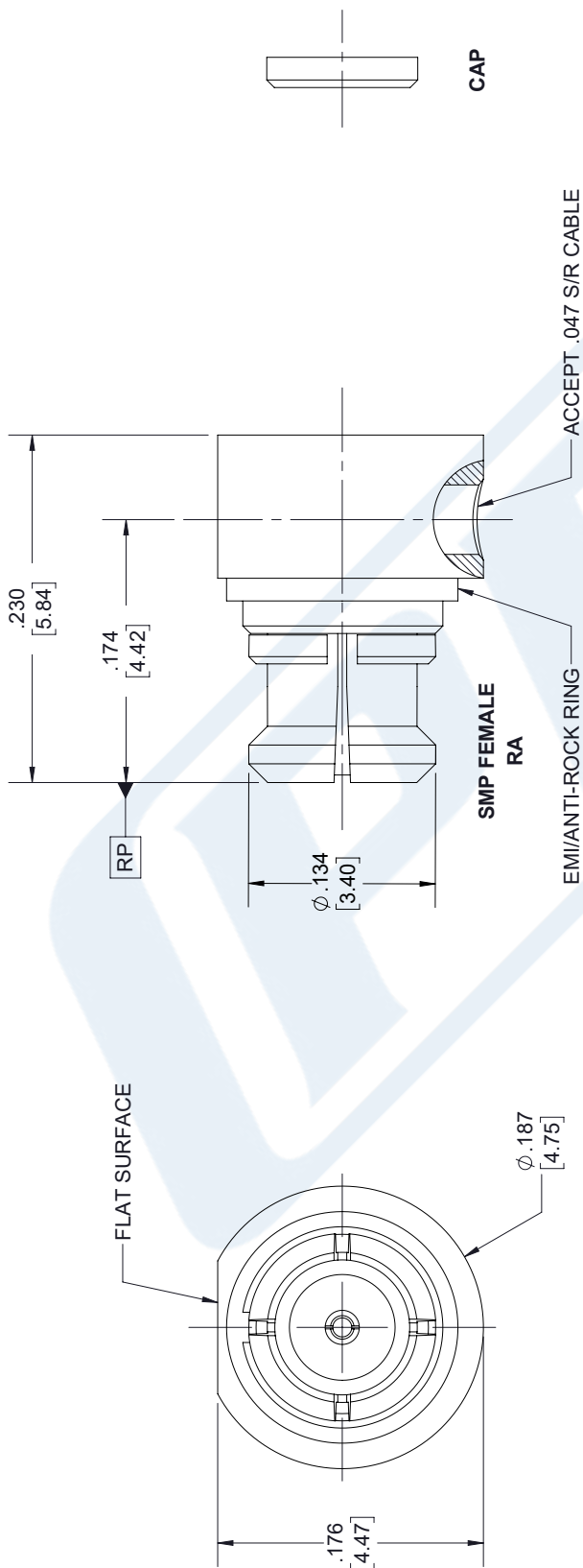
URL: <https://www.pasternack.com/smp-female-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe45249-p.aspx>

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.

PE45249 CAD Drawing

SMP Female Right Angle Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL, Up To 8 GHz

| REVISIONS | | | |
|-----------|---------------------|----------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| 1.1 | PCR PE45249 2019049 | 04/23/19 | J.GARCIA |



STRIPPING DIMENSIONS

NOTES:

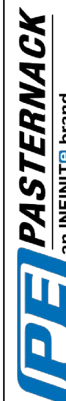
- CABLE ATTACHMENT:
 - OUTER: SOLDER.
 - INNER: SOLDER.

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

TOLERANCES:
X±.2 [5.08] FRACTIONS
XX±.01 [.25] ±.132
XXX±.005 [.13] ANGLES ± 1°

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION



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| | | | | |
|------|-------|----------|-------------|-----|
| SIZE | CAGE | DRAWN BY | PART NUMBER | REV |
| A | 53919 | K.DANG | PE45249 | 1.1 |

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SHEET 1 OF 1
SCALE N/A

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MMCX Plug Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

RF Connectors Technical Data Sheet

PE44456

Configuration

- MMCX Plug Connector
- 50 Ohms
- Straight Body Geometry
- PE-047SR, PE-SR047AL, PE-SR047FL Interface Type
- Solder Attachment

Features

- Max. Operating Frequency 6 GHz
- Gold Plated Brass Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

Pasternack's PE44456 MMCX plug connector with solder attachment for PE-047SR, PE-SR047AL and PE-SR047FL is part of our full line of RF components available for same-day shipping. Our MMCX plug connector operates up to a maximum frequency of 6 GHz.

Our MMCX plug connector PE44456 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 | | 6 | GHz |

Mechanical Specifications

| Size | |
|------------|--------------------|
| Length | 0.488 in [12.4 mm] |
| Width/Dia. | 0.16 in [4.06 mm] |
| Weight | 0.003 lbs [1.36 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44456](#)



MMCX Plug Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL

RF Connectors Technical Data Sheet

PE44456

Material Specifications

| Description | Material | Plating |
|-------------|----------|---------|
| Contact | Brass | Gold |
| Insulation | PTFE | |
| Body | Brass | Gold |

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

MMCX Plug Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL 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: [MMCX Plug Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL PE44456](#)

URL: <https://www.pasternack.com/mmcx-plug-standard-pe-047sr-pe-sr047al-pe-sr047fl-connector-pe44456-p.aspx>

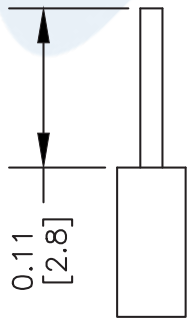
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PE44456 CAD Drawing

MMCX Plug Connector Solder Attachment for PE-047SR, PE-SR047AL, PE-SR047FL



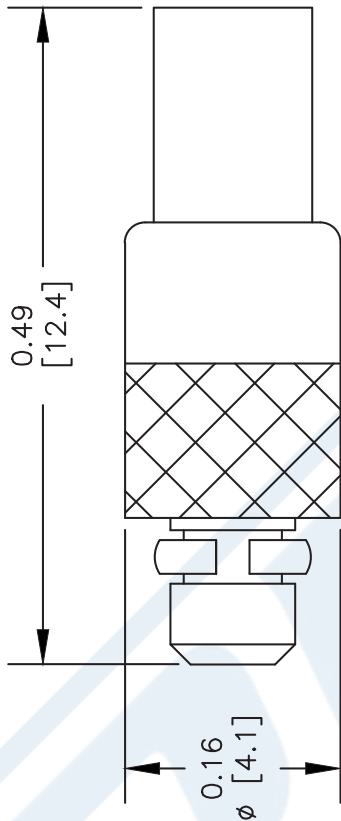
1 2 3



STRIPPING DIMENSIONS

ASSEMBLY PROCEDURES

1. STRIP CABLE AS SHOWN. DO NOT NICK CENTER CONDUCTOR.
2. SLIDE SOLDER ADAPTER (1) OVER OUTER CONDUCTOR. SLIDE PTFE (2) OVER CENTER CONDUCTOR.
3. SOLDER CONTACT (3) TO CENTER CONDUCTOR. SLIDE ADAPTER (1) FORWARD.
4. INSERT ASSEMBLY (1,2&3) INTO BODY, UNTIL CONTACT SEATS IN PLACE. SOLDER BODY & ADAPTER TO OUTER CONDUCTOR.



DWG TITLE

PE44456

FSCM NO. 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].
4. FITS MIL-C-17 AND EQUIVALENT CABLES.

CAD FILE 120804-A

SCALE N/A

SIZE A

2233



PASTERNAK®

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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](#)

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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PE-047SR CAD Drawing

047 Semi-rigid Coax Cable with Copper Outer Conductor



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 3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE-047SR

FSCM NO. 53919

CAD FILE 073113

SCALE N/A

SIZE A

2233



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