

## MMCX Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG178

### RF Connectors Technical Data Sheet

**PE45862**

#### Configuration

- MMCX Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: RG178
- Non-Magnetic Design

#### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.35:1
- Gold over Copper Plated Beryllium Copper Contact
- Magnetic Susceptibility  $10^{-5}$

#### Applications

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

#### Description

Pasternack's PE45862 Right Angle, MMCX, Non-Magnetic, Connector 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 and offers good VSWR of 1.35:1. Its right angle body geometry allows for easier connections in tight spaces. Pasternack's Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a susceptibility of around  $10^{-5}$ , as opposed to  $10^{-2}$  for standard connectors made of brass/nickel materials. As a result, our non-magnetic connectors are transparent to the magnetic field, which means no field distortion and a higher Signal-to-Noise Ratio (SNR).

Our MMCX plug right angle connector PE45862 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

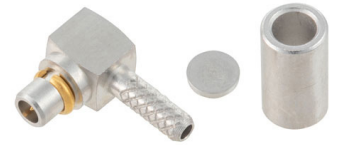
| Description                          | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range                      | DC      |         | 6       | GHz   |
| VSWR                                 |         |         | 1.35:1  |       |
| Insertion Loss                       |         |         | 0.1     | dB    |
| Impedance                            |         | 50      |         | Ohms  |
| Dielectric Withstanding Voltage (AC) |         |         | 500     | Vrms  |
| Insulation Resistance                | 1,000   |         |         | MOhms |

#### Mechanical Specifications

##### Size

|        |                    |
|--------|--------------------|
| Length | 0.43 in [10.90 mm] |
| Width  | 0.21 in [5.26 mm]  |
| Height | 0.21 in [5.26 mm]  |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MMCX Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG178 PE45862](#)



MMCX Plug Right Angle Non-Magnetic Connector  
Crimp/Solder Attachment for RG178

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Weight 0.00 lbs [0.87 g]  
Mating Cycles 500 Cycles

**Material Specifications**

| Description | Material         | Plating               |
|-------------|------------------|-----------------------|
| Contact     | Beryllium Copper | Gold over Copper      |
| Body        | Beryllium Copper | Copper-Tin-Zinc Alloy |

**Environmental Specifications**

**Temperature**  
Operating Range -55 to +155 deg C

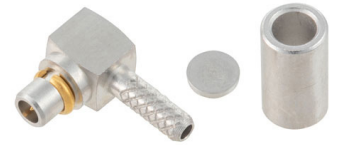
**Compliance Certifications** (see [product page](#) for current document)

**Plotted and Other Data**

Notes:

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## MMCX Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG178

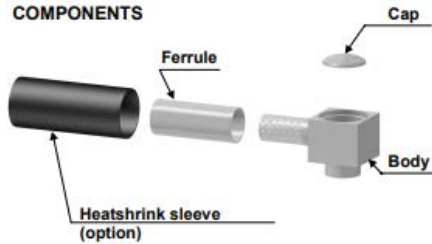


### RF Connectors Technical Data Sheet

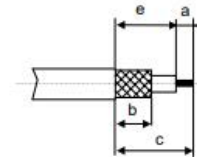
**PE45862**

#### Assembly Instruction

##### COMPONENTS

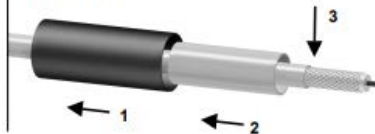


##### STRIPPING DIMENSIONS



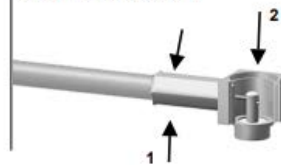
**1**

Slide the heatshrink sleeve onto the cable (Option).  
Slide the ferrule onto the cable.  
Strip the cable.



**4**

Crimp the ferrule with crimping tool ( see connector TDS ).  
Solder the inner conductor.



**2**

Fan the braid.



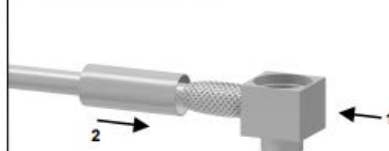
**5**

Place the cap into the body.



**3**

Push the connector body under the braid.  
Slide the ferrule over the braid.

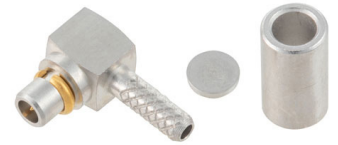


**6**

Press on the cap flush or slightly below the surface of the body assembly.  
Slide the sleeve over the ferrule and heatshrink it in place (Option).



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MMCX Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG178 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: [MMCX Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG178 PE45862](https://www.pasternack.com/mmcx-plug-right-angle-non-magnetic-connector-crimp-solder-attachment-for-rg178-pe45862-p.aspx)

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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.

# PE45862 CAD Drawing

MMCX Plug Right Angle Non-Magnetic Connector Crimp/Solder Attachment for RG178

