



RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100

## RF Connectors Technical Data Sheet

PE44369

### Configuration

- MCX Plug Reverse Polarity Connector
- MIL-C-39012
- 50 Ohms
- Straight Body Geometry
- RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 Interface Type
- Crimp/Solder Attachment

### Features

- Max. Operating Frequency 6 GHz
- Good VSWR of 1.37:1
- Gold over Nickel Plated Beryllium Copper Contact
- 30  $\mu$ m minimum contact plating
- Reverse Polarity

### Applications

- General Purpose Test
- Custom Cable Assemblies

### Description

Pasternack's PE44369 RP MCX plug connector with crimp/solder attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100 and LMR-100 is part of our full line of RF components available for same-day shipping. The plug reverse polarity configuration uses a plug connector body with an inner contact receptacle. Our MCX plug connector operates up to a maximum frequency of 6 GHz and offers good VSWR of 1.37:1.

Our reverse polarity MCX plug connector PE44369 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                                     |         |         | 1.37:1  |       |
| Operating Voltage (AC)                   |         |         | 335     | Vrms  |
| Dielectric Withstanding Voltage (AC)     |         |         | 1,000   | Vrms  |
| High Potential Voltage<br>at 4 and 7 MHz |         |         | 700     | Vrms  |
| Corona Discharge<br>at 70,000 feet       |         |         | 250     | Vrms  |
| Insulation Resistance                    | 10,000  |         |         | MOhms |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE44369](#)



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### Performance by Frequency

| Description         | F1      | F2 | F3 | F4 | F5 | Units |
|---------------------|---------|----|----|----|----|-------|
| Frequency Range     | DC to 1 |    |    |    |    | GHz   |
| Insertion Loss, Max | 0.1     |    |    |    |    | dB    |

Electrical Specification Notes:  
RF leakage: 55 dB at 2.5 GHz.

### Mechanical Specifications

#### Size

|               |                     |
|---------------|---------------------|
| Length        | 0.598 in [15.19 mm] |
| Width/Dia.    | 0.196 in [4.98 mm]  |
| Weight        | 0.008 lbs [3.63 g]  |
| Mating Cycles | 500 Cycles          |

### Material Specifications

| Description | Material         | Plating                            |
|-------------|------------------|------------------------------------|
| Contact     | Beryllium Copper | Gold over Nickel<br>30 µin minimum |
| Insulation  | PTFE             |                                    |
| Body        | Brass            | Gold over Nickel<br>10 µin minimum |

### Environmental Specifications

#### Temperature

|                 |                                      |
|-----------------|--------------------------------------|
| Operating Range | -65 to +165 deg C                    |
| Humidity        | MIL-STD-202, Method 106              |
| Shock           | MIL-STD-202, Method 213, Condition B |
| Vibration       | MIL-STD-202, Method 204, Condition B |
| Thermal Shock   | MIL-STD-202, Method 107, Condition F |
| Salt Spray      | MIL-STD-202, Method 101, Condition B |

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

### Plotted and Other Data

Notes:

RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 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.

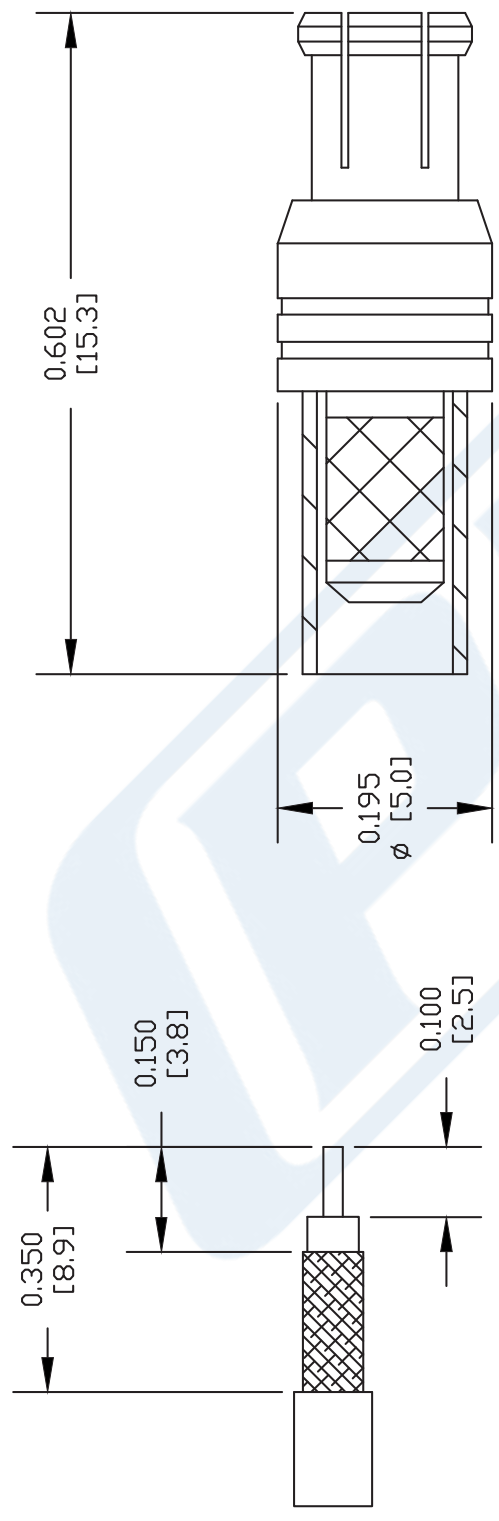
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RP MCX Plug Connector Crimp/Solder Attachment for RG174, RG316, RG188, 0.100 inch, PE-B100, PE-C100, LMR-100 PE44369](#)

URL: <https://www.pasternack.com/mcx-plug-reverse-polarity-rg174-rg316-rg188-connector-pe44369-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.

PE44369 CAD Drawing

RP MCX Plug Connector Crimp/Solder Attachment for RG174,  
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STRIPPING DIMENSIONS

CRIMP SIZE REQUIRED

CONTACT: SOLDER  
FERRULE: .128" HEX CRIMP TOOL

**PASTERNAK®**  
Pasternack Enterprises, Inc.  
P.O. Box 16759 | Irvine | CA | 92623  
**Phone:** (949) 261-1920 | **Fax:** (949) 261-7451  
**Website:** [www.pasternack.com](http://www.pasternack.com) | **E-Mail:** [sales@pasternack.com](mailto:sales@pasternack.com)

DWG TITLE  
**PE44369**

FSCM NO. 53919

|                                                                                                                                                                                                                                |        |       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------|-----|
| NOTES:<br>1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.<br>2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.<br>3. DIMENSIONS ARE IN INCHES [mm].<br>4. FITS MIL-C-17 AND EQUIVALENT CABLES. |        |       |     |
| CAD FILE                                                                                                                                                                                                                       | 071403 | SCALE | N/A |
| SIZE                                                                                                                                                                                                                           | A      |       | 127 |