



## MCX Straight Plug Receptacle for PCB Non-Magnetic Solder Legs

### RF Connectors Technical Data Sheet

**PE45871**

#### Configuration

- MCX Plug Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: PCB
- PCB
- Non-Magnetic Design

#### Features

- Max. Operating Frequency 6 GHz
- Excellent VSWR of 1.08:1
- Gold over Copper Plated Bronze Contact
- Magnetic Susceptibility  $10^{-5}$

#### Applications

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

#### Description

Pasternack's PE45871, MCX, Non-Magnetic, Connector is part of our full line of RF components available for same-day shipping. Our MCX plug connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.08:1. 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 MCX plug pcb connector PE45871 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			1.08:1	
Insertion Loss			0.05	dB
Operating Voltage (AC)			335	Vrms
Impedance		50		Ohms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Insulation Resistance	1,000			MOhms

#### Mechanical Specifications

<b>Size</b>	
Length	12.55 in [318.77 mm]
Width	9.65 in [245.11 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [MCX Straight Plug Receptacle for PCB Non-Magnetic Solder Legs PE45871](#)



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Height	9.65 in [245.11 mm]
Weight	0.01 lbs [2.79 g]
Mating Cycles	500 Cycles

### Material Specifications

Description	Material	Plating
Contact	Bronze	Gold over Copper
Body	Beryllium Copper	Gold over Copper

### Environmental Specifications

#### Temperature

Operating Range	-55 to +125 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

MCX Straight Plug Receptacle for PCB Non-Magnetic Solder Legs 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: [MCX Straight Plug Receptacle for PCB Non-Magnetic Solder Legs PE45871](#)

URL: <https://www.pasternack.com/mcx-plug-pcb-connector-pe45871-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.

# PE45871 CAD Drawing

MCX Straight Plug Receptacle for PCB Non-Magnetic Solder Legs

