



2.4mm Male 4 hole 0.5 inches SQ with Solder
Cup Contact 50Ghz VSWR1.2

RF Connectors Technical Data Sheet

PE45939

Configuration

- 2.4mm Male Connector
- 50 Ohms
- Straight Body Geometry

Features

- Max. Operating Frequency 50 GHz
- Excellent VSWR of 1.2:1
- Gold Plated Brass Contact

Applications

- General Purpose Test
- PCB Applications

Description

PE45939 2.4mm male PCB RF connector has a 50 Ohms impedance. Our 2.4mm male PCB connector provides a maximum frequency of 50 GHz. Our high-quality radio frequency coaxial connector is used for general purpose tests and printed circuit board applications. This 2.4mm male RF connector is stocked to be readily available for same business day shipment.

The Pasternack 2.4mm male PCB connector has a maximum VSWR of 1.2:1. The Pasternack 2.4mm PCB connector has a stainless steel body. Pasternack's 2.4mm male connector has a maximum operating voltage of 150 Vrms and a dielectric withstanding voltage of 500 Vrms.

Pasternack RF connector has a maximum inner conductor and outer conductor resistance of 4 mOhms and 2.5 mOhms respectively. The radio frequency connector is made from stainless steel material and has a contact life of 500 cycles or more. The Pasternack PE45939 2.4mm connector operates at a temperature range of -40 to +165 deg C. Our male RF connector with PCB termination has a 0.353 dB maximum insertion loss.

This Pasternack 2.4mm male connector will ship the same business day as purchased. Our 2.4mm male connector is part of RF, microwave, and millimeter wave components in stock for local, domestic, and international shipment. For further information on similar products, our expert technical support and trained sales team can get you the ideal RF connector as per your requirements.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 50 | GHz |
| VSWR | | | 1.2:1 | |
| Insertion Loss | | | 0.353 | dB |
| Operating Voltage (AC) | | | 150 | Vrms |
| Impedance | | 50 | | Ohms |
| Dielectric Withstanding Voltage (AC) | | | 500 | Vrms |
| Inner Conductor DC Resistance | | | 4 | mOhms |
| Outer Conductor DC Resistance | | | 2.5 | mOhms |
| Insulation Resistance | 5,000 | | | MOhms |
| RF Leakage | 100 | | | dB |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [2.4mm Male 4 hole 0.5 inches SQ with Solder Cup Contact 50Ghz VSWR1.2 PE45939](#)



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Mechanical Specifications

Size

| | |
|-----------------------|-------------------------------------|
| Length | 0.69 in [17.53 mm] |
| Width | 0.50 in [12.70 mm] |
| Height | 0.50 in [12.70 mm] |
| Weight | 0.01 lbs [4.54 g] |
| Mating Cycles | 500 Cycles |
| Mating Torque | 9.74 to 15 in-lbs [1.10 to 1.70 Nm] |
| Cable Retention Force | 4.5 lbs 2.04 kg |

Material Specifications

| Description | Material | Plating |
|--------------|-----------------|---------|
| Contact | Brass | Gold |
| Insulation | PEI | |
| Body | Stainless Steel | |
| Coupling Nut | Stainless Steel | |

Environmental Specifications

Temperature

| | |
|-----------------|--------------------------------------|
| Operating Range | -40 to +165 deg C |
| Humidity | MIL-STD-202, Method 106 |
| Thermal Shock | MIL-STD-202, Method 107, Condition B |
| Salt Spray | MIL-STD-202, Method 101, Condition B |

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

Plotted and Other Data

Notes:

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2.4mm Male 4 hole 0.5 inches SQ with Solder Cup Contact 50Ghz VSWR1.2 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: [2.4mm Male 4 hole 0.5 inches SQ with Solder Cup Contact 50Ghz VSWR1.2 PE45939](https://www.pasternack.com/2.4mm-male-pcb-connector-pe45939-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.

PE45939 CAD Drawing

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