

# 1.85mm Female Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap



### RF Connectors Technical Data Sheet

PE45945

### Configuration

- 1.85mm Female Connector
- 50 Ohms

### Straight Body Geometry

#### **Features**

- Max. Operating Frequency 70 GHz
- Good VSWR of 1.92:1

Gold Plated Beryllium Copper Contact

### **Applications**

General Purpose Test

PCB Applications

### Description

PE45944 1.85mm female PCB RF connector has a 50 Ohms impedance. Our 1.85mm female PCB connector provides a maximum frequency of 70 GHz. Our high-quality radio frequency coaxial connector is used for general purpose tests and printed circuit board applications. This 1.85mm female RF connector is stocked to be readily available for same business day shipment.

The Pasternack 1.85mm female PCB connector has a maximum VSWR of 1.92:1. The Pasternack 1.85mm PCB connector has a stainless steel body. Our PE45944 1.85mm connector uses a stainless steel outer conductor. Pasternack's 1.85mm female 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 PE45944 1.85mm connector operates at a temperature range of -40 to +165 deg C. Our female RF connector with PCB termination has a 0.353 dB maximum insertion loss.

This Pasternack 1.85mm female connector will ship the same business day as purchased. Our 1.85mm female 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      |         | 70      | GHz   |
| VSWR                                 |         |         | 1.92:1  |       |
| 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: 1.85mm Female Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap PE45945

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com



# 1.85mm Female Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap



## RF Connectors Technical Data Sheet

**PE45945** 

### **Mechanical Specifications**

Size Length Width

Width Height Weight Mating Cycles Mating Torque

Cable Retention Force

0.44 in [11.18 mm] 0.40 in [10.16 mm]

0.40 in [10.16 mm] 0.01 lbs [4.54 g] 500 Cycles

9.74 to 15 in-lbs [1.10 to 1.70 Nm]

4.5 lbs 2.04 kg

#### **Material Specifications**

| Description     | Material         | Plating |  |
|-----------------|------------------|---------|--|
| Contact         | Beryllium Copper | Gold    |  |
| Outer Conductor | Stainless Steel  |         |  |
| Body            | Stainless Steel  |         |  |

### **Environmental Specifications**

**Temperature** 

Operating Range Humidity

Thermal Shock Salt Spray

-50 to +125 deg C

MIL-STD-202, Method 106

MIL-STD-202, Method 107, Condition B MIL-STD-202, Method 101, Condition B

Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 1.85mm Female Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap PE45945

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451



# 1.85mm Female Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap



## RF Connectors Technical Data Sheet

PE45945

1.85mm Female Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap 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: 1.85mm Female Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap PE45945

URL: https://www.pasternack.com/1.85mm-female-pcb-connector-pe45945-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.

### PE45945 CAD Drawing

1.85mm Female Solderless 2 hole PCB Mount 70GHz

