



## 1.85mm Female PCB Surface Mount with Round Contact 67GHz VSWR1.3

### RF Connectors Technical Data Sheet

**PE45942**

#### Configuration

- 1.85mm Female Connector
- 50 Ohms
- Straight Body Geometry

#### Features

- Max. Operating Frequency 67 GHz
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact

#### Applications

- General Purpose Test
- PCB Applications

#### Description

PE45942 1.85mm female PCB RF connector has a 50 Ohms impedance. Our 1.85mm female PCB connector provides a maximum frequency of 67 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 1.3:1. The Pasternack 1.85mm PCB connector has a brass body with gold plating. Our PE45942 1.85mm connector uses a gold plated-brass 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 brass material and has a contact life of 500 cycles or more. The Pasternack PE45942 1.85mm connector operates at a temperature range of -40 to +165 deg C. Our female RF connector with PCB termination has a 0.409 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		67	GHz
VSWR			1.3:1	
Insertion Loss			0.409	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 PCB Surface Mount with Round Contact 67GHz VSWR1.3 PE45942](#)



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**Mechanical Specifications**

**Size**

Length	0.46 in [11.68 mm]
Width	0.25 in [6.35 mm]
Height	0.25 in [6.35 mm]
Weight	0.01 lbs [3.63 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	Beryllium Copper	Gold
Outer Conductor	Brass	Gold
Body	Brass	Gold

**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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1.85mm Female PCB Surface Mount with Round Contact 67GHz VSWR1.3 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 PCB Surface Mount with Round Contact 67GHz VSWR1.3 PE45942](https://www.pasternack.com/1.85mm-female-pcb-connector-pe45942-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.

# PE45942 CAD Drawing

1.85mm Female PCB Surface Mount with Round Contact 67GHz VSWR1.3

