

Non-Magnetic SMA Female Solder Attachment Thru Hole PCB, .201 inch x 0.059 inch Hole Spacing



PE45954

Configuration

- SMA Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG174NM
- Non-Magnetic Design

Features

- Max. Operating Frequency 18 GHz
- Excellent VSWR of 1.21:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications

- General Purpose Test
- PCB Applications
- Medical
- Quantum Computing
- Military and Aerospace

Description

Pasternack's PE45954 , SMA, Non-Magnetic, connector with solder attachment for RG174 PCB is part of our full line of RF components available for same-day shipping. Our SMA female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.21:1. 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 SMA female connector PE45954 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		18	GHz
VSWR			1.21:1	
Operating Voltage (AC)			335	Vrms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.512 in [13 mm]
Width	0.25 in [6.35 mm]
Height	0.25 in [6.35 mm]
Weight	0.015 lbs [6.8 g]

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	Teflon	
Outer Conductor	Beryllium Copper	Gold 3 µin minimum
Body	Beryllium Copper	Gold 3 µin minimum

Environmental Specifications

Temperature Operating Range	-65 to +165 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Non-Magnetic SMA Female Solder Attachment Thru Hole PCB, .201 inch x 0.059 inch Hole Spacing 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: [Non-Magnetic SMA Female Solder Attachment Thru Hole PCB, .201 inch x 0.059 inch Hole Spacing PE45954](#)

URL: <https://www.pasternack.com/sma-female-rg316-rg174-lmr-100-pcb-connector-pe45954-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

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