



SMA Female to SMB Plug Adapter

RF Adapters Technical Data Sheet

PE9142

Configuration

- SMA Female Connector 1
- SMB Plug Connector 2
- 50 Ohm
- Straight Body Geometry

Features

- Max VSWR of 1.3:1 up to 4 GHz
- SMA interface compliant with MIL-STD-348A
- SMB interface compliant with MIL-STD-348A
- 30 μ -in minimum contact plating
- Gold Plated Beryllium Copper Contact

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE9142 SMA female to SMB plug adapter is part of our full line of RF components available for same-day shipping. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our SMA to SMB adapter has a female to plug gender configuration. PE9142 SMA female to SMB plug adapter operates to 4 GHz. The Pasternack RF adapter provides good VSWR of 1.3:1 maximum.

RF adapters are often used to enable connections between two connector types that would otherwise not mate. Certain adapter configurations can also be used to protect connectors on expensive equipment where the number of connect/disconnect cycles is high. An RF, microwave or millimeter wave adapter is connected to the equipment, and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Pasternack also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
VSWR			1.3:1	
Operating Voltage (AC)			335	Vrms

Mechanical Specifications

Size	
Length	0.642 in [16.31 mm]
Width	0.25 in [6.35 mm]
Weight	0.011 lbs [4.99 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Female to SMB Plug Adapter PE9142](#)



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Description	Connector 1	Connector 2
Type	SMA Female	SMB Plug
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	MIL-STD-348A

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		SMB Plug	
Contact	Beryllium Copper	Gold 30 μ-in minimum	Beryllium Copper	Gold 30 μ-in minimum
Insulation	PTFE		PTFE	
Outer Conductor	Brass	Nickel 100 μ-in minimum		
Body			Brass	Nickel 100 μ-in minimum
Coupling Nut			Brass	Nickel 100 μ-in minimum

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

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SMA Female to SMB Plug Adapter 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: [SMA Female to SMB Plug Adapter PE9142](#)

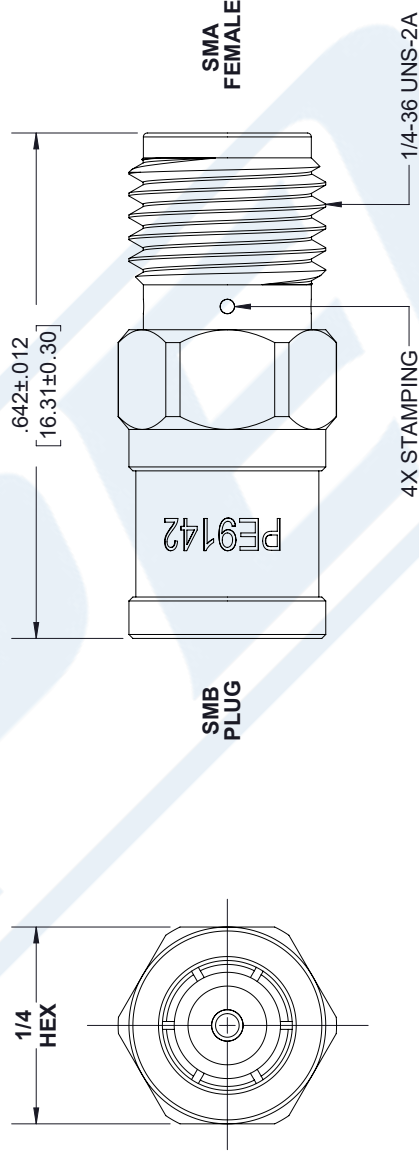
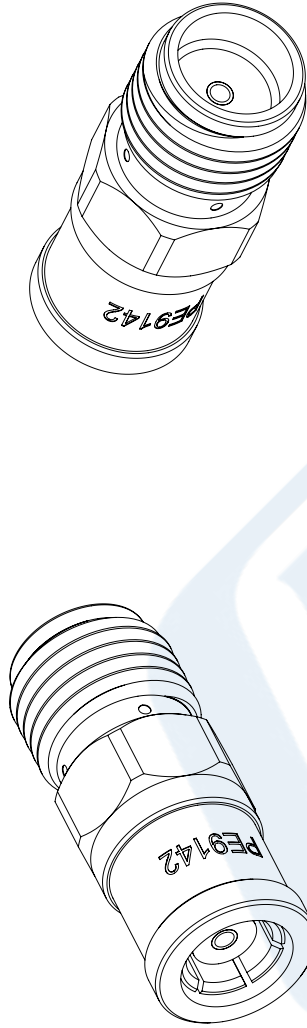
URL: <https://www.pasternack.com/sma-female-smb-plug-straight-adapter-pe9142-p.aspx>

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.

PE9142 CAD Drawing

SMA Female to SMB Plug Adapter

REVISIONS		
REV.	DESCRIPTION	DATE
1.3	PCR PE9142 20190529	06/03/19
		APPROVED
		S. ELLIS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 X±± 2 (5.08) FRACTIONS
 .XX±± .01 (.25) ±.132
 .XXX±± .005 (.13) ANGLES ± 1°

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

PE PASTERNAK
an INFINITO brand

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SIZE [CAGE] DRAWN BY PART NUMBER
 A 53919 K.DANG PE9142

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SHEET 1 OF 1
SCALE N/A

REV 1.3

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