



Precision SMA Female to SMA Female Right Angle Adapter Mitered

RF Adapters Technical Data Sheet

PE91153

Configuration

- SMA Female Connector 1
- SMA Female Connector 2
- 50 Ohms
- Precision Design
- Right Angle Body Geometry

Features

- Max VSWR of 1.15:1 up to 27 GHz
- Gold over Nickel Plated Beryllium Copper Contact
- Contact Plating per MIL-G-45204

Applications

- General Purpose Test
- Precision Test & Measurement

Description

Pasternack's PE91153 precision SMA female to SMA female right angle 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 SMA adapter has a female to female gender configuration in a precision design. PE91153 SMA female to SMA female adapter operates to 27 GHz. The Pasternack RF adapter provides excellent VSWR of 1.15:1 maximum. This low profile right angle SMA adapter allows for easier connections in tight spaces.

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		27	GHz
VSWR			1.15:1	
Insertion Loss			0.26	dB

Electrical Specification Notes:
Values at 25°C, sea level.
Insertion Loss (dB) = $0.05 \cdot \sqrt{f(\text{GHz})}$.

Mechanical Specifications

Size

Length	0.47 in [11.94 mm]
Width	0.442 in [11.23 mm]
Weight	0.012 lbs [5.44 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision SMA Female to SMA Female Right Angle Adapter Mitered PE91153](#)



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Description	Connector 1	Connector 2
Type	SMA Female	SMA Female
Polarity	Standard	Standard
Mating Cycles	500	500

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Female		SMA Female	
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		PTFE	
Outer Conductor	Passivated Stainless Steel		Passivated Stainless Steel	
		ASTM A380		ASTM A380

Environmental Specifications

Temperature

Operating Range

-55 to +100 deg C

Vibration
Salt Spray

MIL-STD-202, Method 204, Cond. D (20G's)
MIL-STD-202, Method 101, Cond. B, 5% salt solution

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

Plotted and Other Data

Notes:

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Right Angle Adapter Mitered

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Precision SMA Female to SMA Female Right Angle Adapter Mitered from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

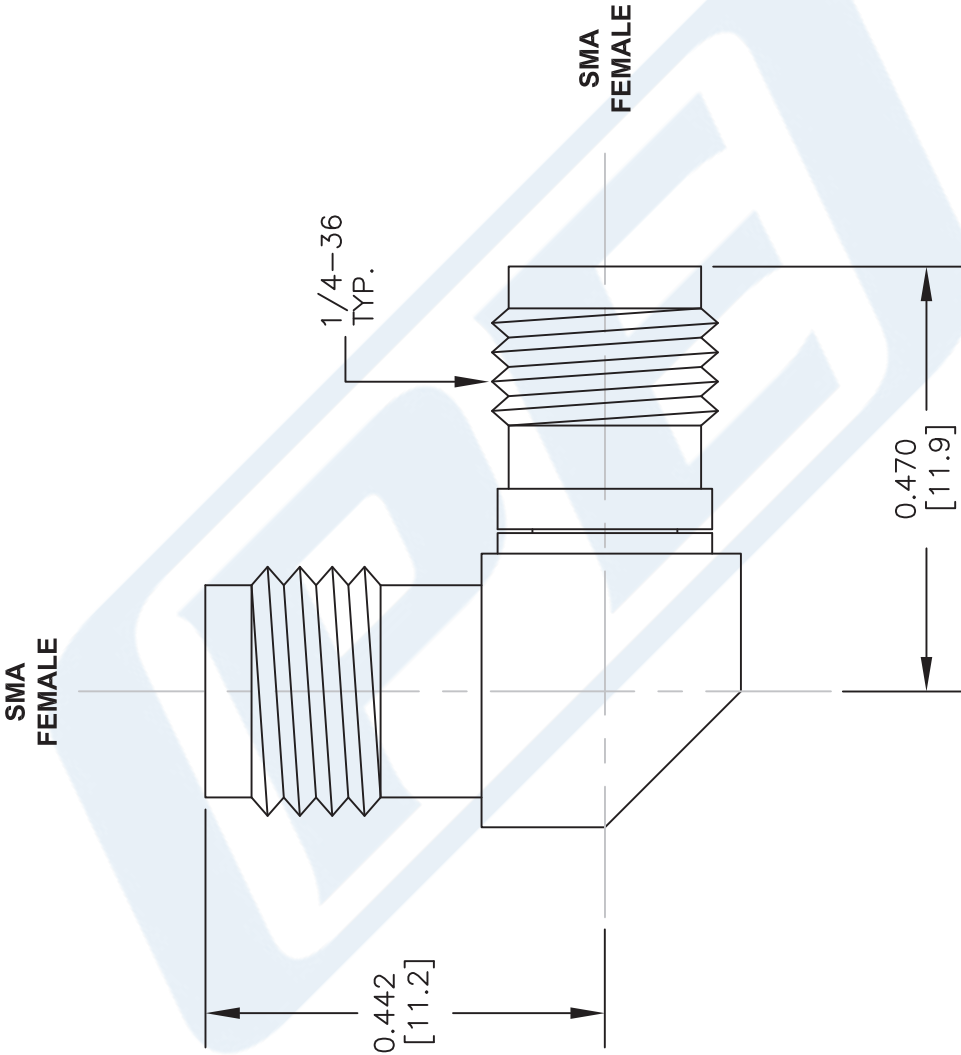
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision SMA Female to SMA Female Right Angle Adapter Mitered PE91153](https://www.pasternack.com/sma-female-sma-female-right-angle-adapter-pe91153-p.aspx)

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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.

PE91153 CAD Drawing

Precision SMA Female to SMA Female Right Angle Adapter Mitered



NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

DWG TITLE
PE91153

FSCM NO. 53919

CAD FILE

020614

SCALE N/A

SIZE A

150

PE PASTERNAK®
THE ENGINEER'S RF SOURCE

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