



SMA Male to 3.5mm Female Adapter

RF Adapters Technical Data Sheet

PE9723

Configuration

- SMA Male Connector 1
- 3.5mm Female Connector 2
- 50 Ohms
- Straight Body Geometry

Features

- Max VSWR of 1.2:1 up to 27 GHz
- Gold over Nickel Plated Beryllium Copper Contact
- Contact Plating per MIL-G-45204

Applications

- Allows Connection Between Series
- General Purpose Test

Description

Pasternack's PE9723 SMA male to 3.5mm female 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 3.5mm adapter has a male to female gender configuration. PE9723 SMA male to 3.5mm female adapter operates to 27 GHz. The Pasternack RF adapter provides excellent VSWR of 1.2:1 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		27	GHz
VSWR			1.2:1	
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

0.739 in [18.77 mm]

Width

0.312 in [7.92 mm]

Weight

0.013 lbs [5.9 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to 3.5mm Female Adapter PE9723](#)



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Description	Connector 1	Connector 2
Type	SMA Male	3.5mm Female
Polarity	Standard	Standard
Mating Cycles	500	500
Hex Size	5/16 in.	
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]	

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		3.5mm Female	
Contact	Beryllium Copper	Gold over Nickel MIL-G-45204	Beryllium Copper	Gold over Nickel MIL-G-45204
Insulation	PTFE		Rexolite	
Outer Conductor			Passivated Stainless Steel	ASTM A380
Body	Passivated Stainless Steel	ASTM A380		
Coupling Nut	Passivated Stainless Steel	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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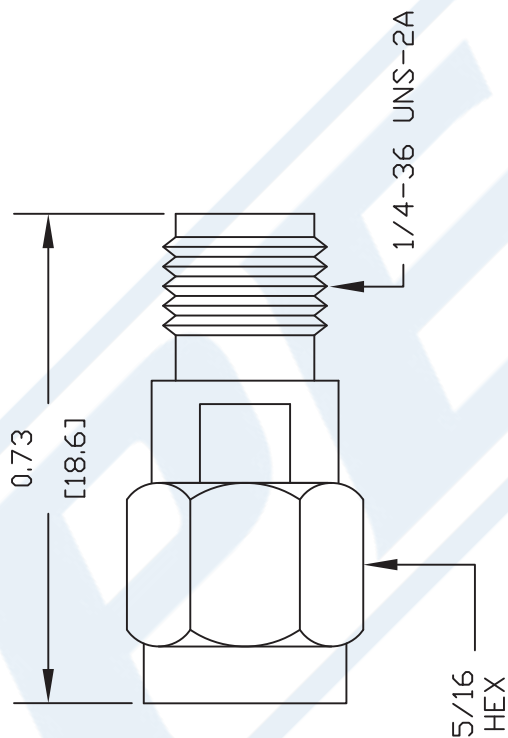
SMA Male to 3.5mm Female Adapter from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [SMA Male to 3.5mm Female Adapter PE9723](https://www.pasternack.com/sma-male-3.5mm-female-straight-adapter-pe9723-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.

PE9723 CAD Drawing
SMA Male to 3.5mm Female Adapter



DWG TITLE

PE9723

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].

REV. A

FSCM NO. 53919

CAD FILE 031208

SCALE N/A

SIZE A

127



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