

RF Adapter, 45 Degree Angle SMA plug
to SMA jack 27GHz VSWR1.15



RF Adapters Technical Data Sheet

PE91594

Configuration

- SMA Male Connector 1
- SMA Female Connector 2

- 50 Ohm
- 45 Degree Body Geometry

Features

- Max VSWR of 1.15:1 up to 27 GHz
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

SMA adapter PE91594 from Pasternack Enterprises is part of a very large selection of in-stock interconnect RF components. Our SMA to SMA adapter is a coaxial adapter design with a 50 Ohm impedance. This 50 Ohm SMA adapter is manufactured to precise RF adapter specifications and has a maximum VSWR of 1.150.

Our in-series connection type RF adapter, which operates to 27 GHz makes connections in tight spaces easier. This passivated stainless steel RF adapter can be used to make connections between two connector types that would not otherwise mate. This SMA adapter contains beryllium copper contacts with gold over nickel contact plating.

This SMA to SMA adapter is constructed with male gender on side 1 and female on side 2. PE91594 SMA male to SMA female coaxial adapter from Pasternack has a 45-degree angled body ideal for routing RF/Microwave signals in tight spaces. Additionally, RF adapters can be utilized to protect connectors on expensive equipment where the number of connect and disconnect cycles is high.

Pasternack SMA male to SMA female adapter is part of over one million RF microwave and millimeter wave components in stock. 45-degree angle RF SMA adapter is ready for same day purchase and shipping worldwide. We also stock and/or custom build SMA coaxial cables that ship quickly from our facility for all your RF adapter component needs.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		27	GHz
VSWR			1.15:1	

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 4	4 to 8	8 to 12	12 to 27	GHz
Insertion Loss, Max	0.06	0.12	0.17	0.208	0.312	dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [RF Adapter, 45 Degree Angle SMA plug to SMA jack 27GHz VSWR1.15 PE91594](#)



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Mechanical Specifications

Size

Length	0.93 in [23.62 mm]
Width	0.33 in [8.38 mm]
Height	0.60 in [15.27 mm]
Weight	0.02 lbs [9.07 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Polarity	Standard	Standard

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		SMA Female	
Contact	Beryllium Copper	Gold over Nickel	Beryllium Copper	Gold over Nickel
Outer Conductor			Passivated Stainless Steel	
Body	Passivated Stainless Steel		Passivated Stainless Steel	
Coupling Nut	Passivated Stainless Steel			

Environmental Specifications

Temperature

Operating Range -65 to +165 °C

Humidity

MIL-STD-202, Method 206

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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RF Adapter, 45 Degree Angle SMA plug to SMA jack 27GHz VSWR1.15 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: [RF Adapter, 45 Degree Angle SMA plug to SMA jack 27GHz VSWR1.15 PE91594](#)

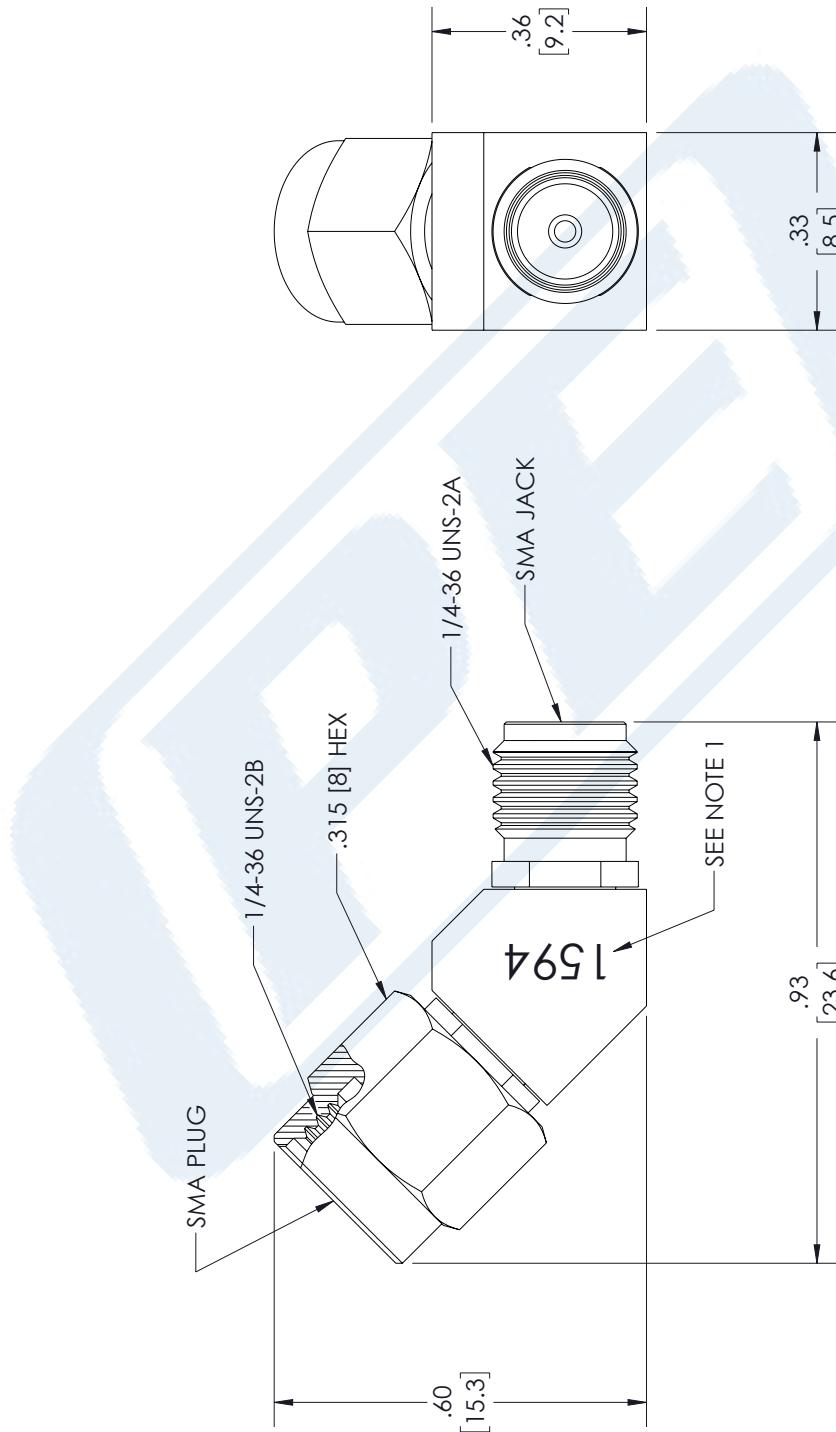
URL: <https://www.pasternack.com/sma-male-to-sma-female-45-degree-adapter-pe91594-p.aspx>

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.

PE91594 CAD Drawing

RF Adapter, 45 Degree Angle SMA plug to SMA jack 27GHz VSWR1.15

REVISIONS				
REV.	DESCRIPTION	DATE	APPROVED	
A	INITIAL RELEASE	11/03/2022	DWANG	



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PASTERNACK an INFINITE brand		SHEET 1 OF 1
PASTERNACK an INFINITE brand		SCALE N/A
PASTERNACK an INFINITE brand		ITEM NO. PE91594
PASTERNACK an INFINITE brand		REV A

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

$X = \pm 2$ [5.08] FRACTIONS
 $.XX = \pm .02$ [.51] $\pm 1/32$
 $XXX = \pm .005$ [.13] ANGLES $\pm 1^\circ$
CABLE LENGTH (L) TOLERANCES:
L \leq 12 [305] \pm 1 [25] -0
12 [305] $<$ L \leq 60 [1524] $=$ +2 [51] / -0
60 [1524] $<$ L \leq 120 [3048] $=$ +4 [102] / -0
120 [3048] $<$ L \leq 300 [7620] $=$ +6 [152] / -0
300 [7620] $<$ L $=$ +5%L / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

NOTES:

- ITEM IS MARKED WITH ITEM NUMBER APPROXIMATELY WHERE SHOWN.

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