



Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated

RF Adapters Technical Data Sheet

PE91458

Configuration

- SMA Male Connector 1
- SMA Male Connector 2
- 50 Ohm
- Precision Design
- Radius Right Angle Body Geometry

Features

- Max VSWR of 1.25:1 up to 18 GHz
- SMA interface compliant with MIL-STD-348
- Contact plating according to ASTM B-488
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Precision Test & Measurement

Description

Pasternack's PE91458 SMA male to SMA male radius 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 male to male gender configuration built of durable stainless steel in a precision design. PE91458 SMA male to SMA male adapter is gold plated and operates to 18 GHz. The Pasternack RF adapter provides excellent VSWR of 1.25:1 maximum. This radius right angle SMA to 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		18	GHz
VSWR			1.25:1	
Insertion Loss			0.2	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
High Potential Voltage at 5 MHz			670	Vrms
Corona Discharge at 70,000 ft			250	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated PE91458](#)



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RF Leakage -72 dB

Electrical Specification Notes:
Values at 25°C, sea level.

Mechanical Specifications

Size

Length 0.436 in [11.07 mm]
Width 0.312 in [7.92 mm]
Weight 0.014 lbs [6.35 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Mating Cycles	500	500
Hex Size	5/16 in.	5/16 in.
Mating Torque	7 to 10 in-lbs [0.79 to 1.13 Nm]	7 to 10 in-lbs 0.79 to 1.13 Nm

Material Specifications

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	SMA Male		SMA Male	
Contact	Beryllium Copper	Gold ASTM B-488	Beryllium Copper	Gold ASTM B-488
Insulation	PTFE		PTFE	
Body	Stainless Steel	Gold ASTM B-488	Stainless Steel	Gold ASTM B-488
Coupling Nut	Stainless Steel	Gold ASTM B-488	Stainless Steel	Gold ASTM B-488

Environmental Specifications

Temperature

Operating Range -65 to +165 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 213, Test Cond. I

Vibration

MIL-STD-202, Method 204, Test Cond. D

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Thermal Shock
Salt Spray

MIL-STD-202, Method 107, Test Cond. A
MIL-STD-202, Method 101, Test Cond. B

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

Plotted and Other Data

Notes:

Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated 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: [Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated PE91458](#)

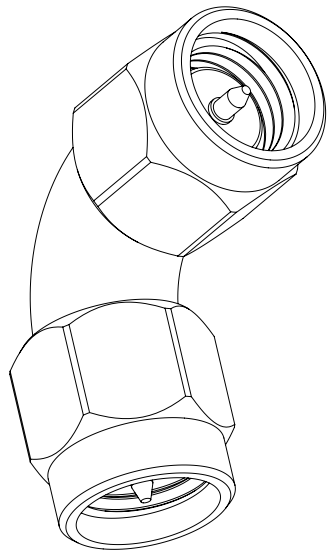
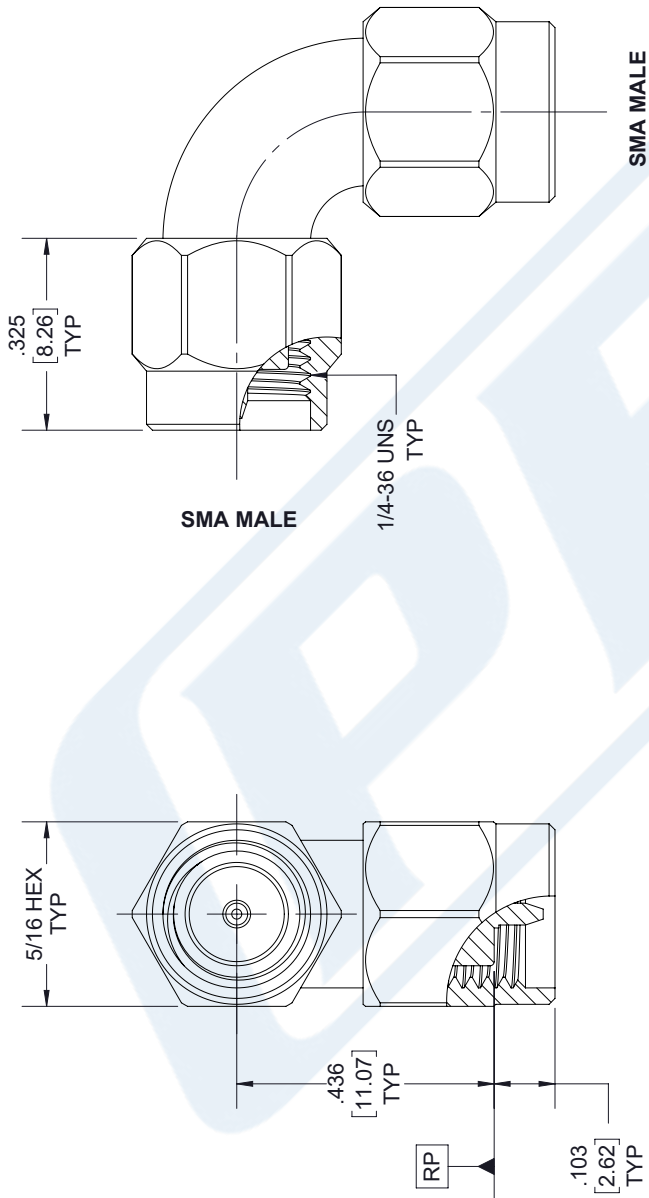
URL: <https://www.pasternack.com/sma-male-sma-male-radius-right-angle-adapter-pe91458-p.aspx>

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PE91458 CAD Drawing

Precision SMA Male to SMA Male Radius Right Angle Adapter, Gold Plated

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	01/10/19	J.GARCIA



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
X±.2 [5.08]	±.132
XX±.01 [.25]	±.005
XXX±.005 [.13]	±.001
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	
THIRD-ANGLE PROJECTION	



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SHEET	1	OF	1
SCALE	N/A		

SIZE	CAGE	DRAWN BY	PART NUMBER	REV
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