



## Swivel Joint Operating to 6 GHz, SMA Male to SMA Male Adapter

### TECHNICAL DATA SHEET

**PE1403**

Pasternack's PE1403 Swivel Joint Operating to 6 GHz, SMA Male to SMA Male Adapter is part of our full line of RF components available for same-day shipping. Swivel Joints are used to transfer RF signals between stationary and movable parts of a communications system. Pasternack's Swivel Joints boast a compact design, excellent VSWR, low insertion loss and minimal variation of RF performance during rotation. These adapters can be rotated through the center axis in 360 degrees to allow for rotation equipment to be installed to stationary equipment and have a long service life.

#### Features

- Max VSWR of 1.3:1 up to 6 GHz
- Rotated at the center over 360 Degrees
- Phase rotational effect variation (WOW) of  $\leq 0.5^\circ$  around the axis
- VSWR of 1.3:1 with rotational effect variation (WOW)  $\leq \pm 0.03$  around the axis
- Insertion Loss  $< 0.04$  dB at 6GHz with rotational effect variation (WOW) of  $\leq \pm 0.03$  with rotation around the axis

#### Applications

- General Purpose
- Commercial and Military Radar
- Land-Mobile-Radio (LMR) Communications
- Anti-Missile Defense
- SatCom

#### Configuration

Connector 1	SMA Male
Connector 2	SMA Male
Adapter Design	Standard
Design Type	Swivel

#### Electrical Specifications (Values at 25°C, sea level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.3:1	
Insertion Loss		0.4		dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Swivel Joint Operating to 6 GHz, SMA Male to SMA Male Adapter PE1403](#)



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#### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Range	DC to 3	3 to 6				GHz
VSWR	1.15:1	1.3:1				
VSWR Rotational Variance	0.02:1	0.03:1				
Insertion Loss	0.2	0.4				dB
Insertion Loss Rotational Variance	0.02	0.03				dB
Phase Rotational Variance	0.3	0.5				Degrees

#### Mechanical Specifications

##### Size

Length	1.671 in [42.44 mm]
Width	0.948 in [24.08 mm]
Height	0.354 in [8.99 mm]
Weight	0.05 lbs [22.68 g]

##### Connectors

Description	Connector 1	Connector 2
Type	SMA Male	SMA Male
Inner Conductor Material and Plating	Beryllium Copper, Gold over Nickel	Beryllium Copper, Gold over Nickel
Body Material and Plating	Brass, Gold over Nickel over Copper	Brass, Gold over Nickel over Copper

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

#### Plotted and Other Data

Swivel Joint Operating to 6 GHz, SMA Male to SMA Male 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: [Swivel Joint Operating to 6 GHz, SMA Male to SMA Male Adapter PE1403](#)

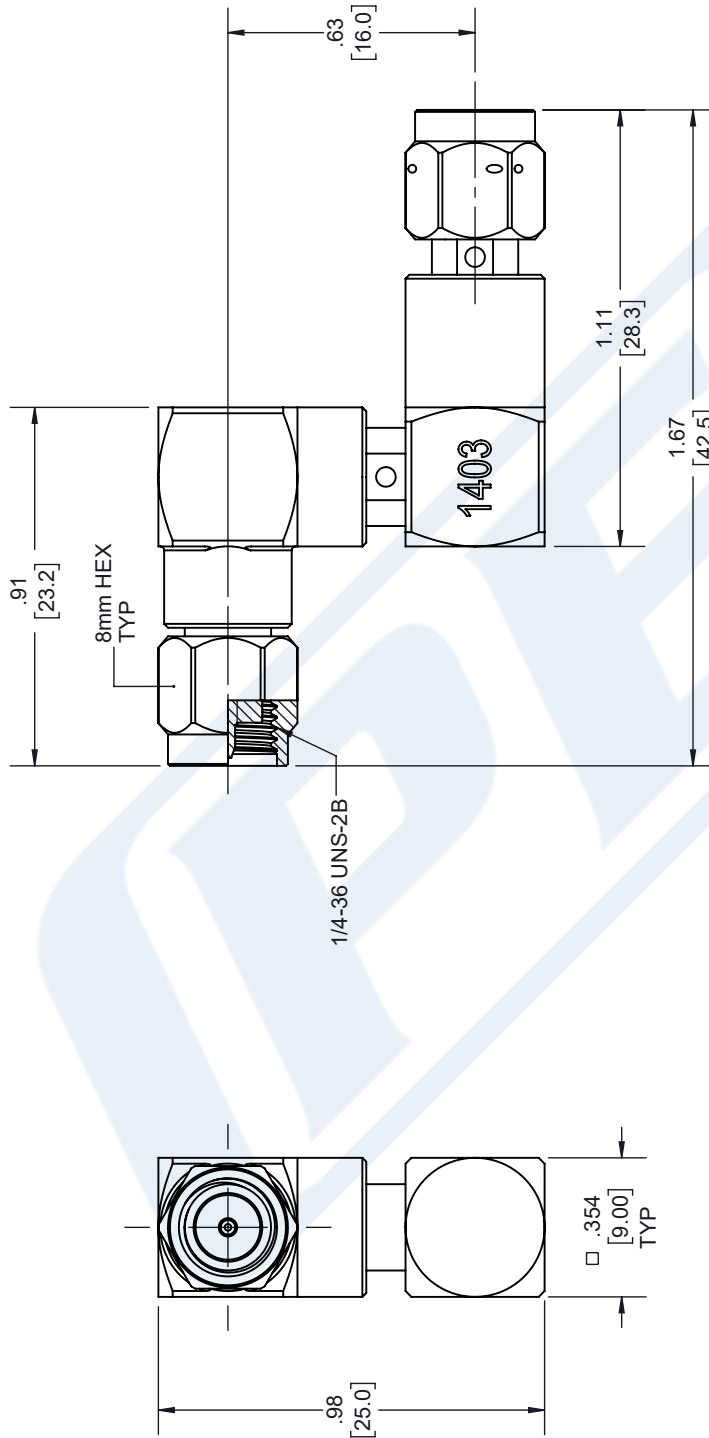
URL: <https://www.pasternack.com/swivel-joint-6-ghz-sma-male-sma-male-connectors-pe1403-p.aspx>

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.

# PE1403 CAD Drawing

Swivel Joint Operating to 6 GHz, SMA Male to SMA Male Adapter

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	1/20/2022	A. GANWANI



THIRD-ANGLE PROJECTION

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SCALE N/A

REV A

**PE PASTERNAK**  
an INFINITE brand

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

TOLERANCES:

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

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE A

CAGE CODE 53919

DRAWN BY K.DANG

ITEM NO. PE1403

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