



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

TECHNICAL DATA SHEET

PE1405

Pasternack's PE1405 Swivel Joint Operating to 6 GHz, SMA Female to SMA Female 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 Female
Connector 2	SMA Female
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 Female to SMA Female Adapter PE1405](#)



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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 Female	SMA Female
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 Female to SMA Female 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 Female to SMA Female Adapter PE1405](#)

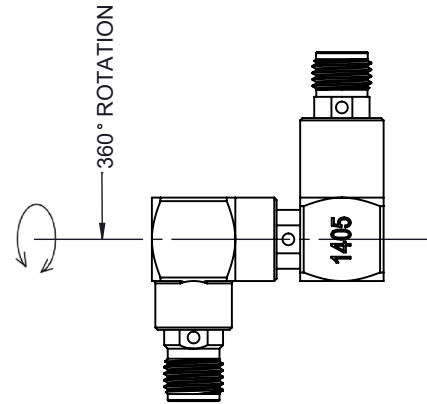
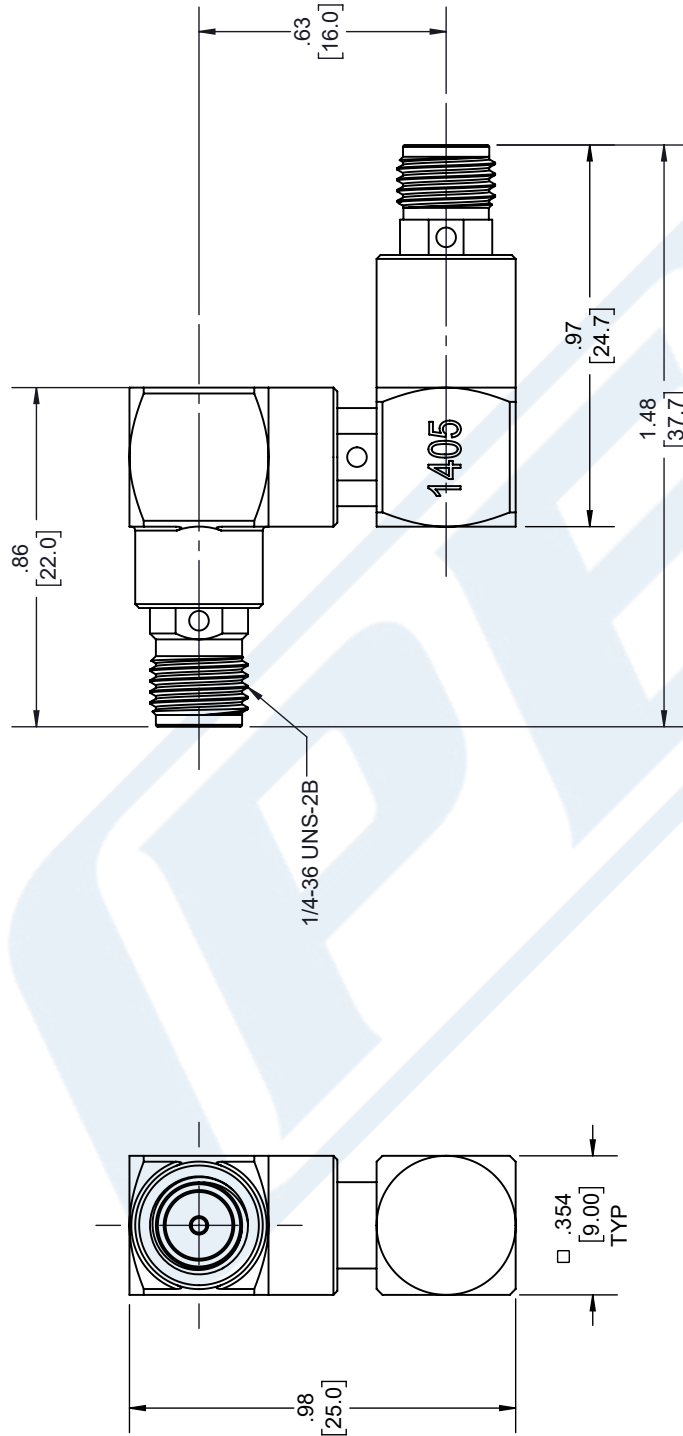
URL: <https://www.pasternack.com/swivel-joint-6-ghz-sma-female-sma-female-connectors-pe1405-p.aspx>

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.

PE1405 CAD Drawing

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

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



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

TOLERANCES:

X = ± .2 [5.08] FRACTIONS

.XX = ± .02 [.51] ± 1/32

.XXX = ± .005 [.13] ANGLES ± 1°

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.

PE PASTERNAK
an INFINITE brand

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ITEM NO.

PE1405

SCALE

N/A

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THIRD-ANGLE PROJECTION

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