



Adjustable Phase Trimmer, DC to 12 GHz, with an Adjustable Phase of 4 Deg. Per GHz and SMA male Connector for RG405, Brass Body

Phase Shifters and Trimmers Technical Data Sheet

PE8209

Features

- Phase Adjustment: 4 Deg/GHz
- Frequency Range from DC to 12 GHz
- SMA male Connectorized Design
- Connector Interface Type: RG405
- Insertion Loss: 0.5 dB Max
- Max VSWR 1.2:1
- Max Power Rating: 100 Watts (CW)

Applications

- Test & Measurements
- Radar Development
- Military Communications Systems
- Phase Array Antenna System
- Satellite Communications

Description

Pasternack's PE8209 is a phase trimmer that has phase adjustment range of 4 degrees per GHz with a frequency range from DC to 12 GHz. With SMA male for RG405, this RF phase trimmer design is tried and true technology that offers exceptional RF performance characteristics that include a maximum VSWR of 1.2:1. Phase trimmers are part of Pasternack's comprehensive RF passive product offerings which are available in stock and ready for same-day shipment.

Electrical Specifications (Values at +25° C, Sea Level)

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		12	GHz
Impedance		50		Ohms
Phase Adjustment		4		Deg/GHz
Input VSWR			1.2:1	
Insertion Loss			0.5	dB
Input Power, CW			100	dBm

Mechanical Specifications

Size

Length	1.193 in [30.3 mm]
Width/Diameter	0.315 in [8 mm]
Height	0.315 in [8 mm]
Weight	0.02 lbs [9.07 g]
Body Material and Plating	Brass, Copper-Tin-Zinc Alloy

Configuration

Input Connector	SMA Male
Input Connector Center Contact Material	Beryllium Copper
Input Connector Center Contact Plating	Gold
Output Connector Center Contact Material	Beryllium Copper
Output Connector Center Contact Plating	Gold

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Adjustable Phase Trimmer, DC to 12 GHz, with an Adjustable Phase of 4 Deg. Per GHz and SMA male Connector for RG405, Brass Body PE8209](#)



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Environmental Specifications

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

Plotted and Other Data

Notes:

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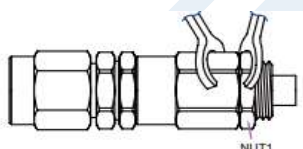
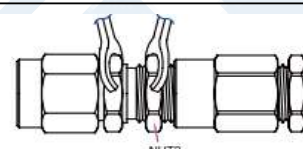
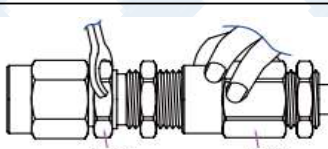
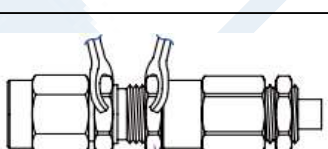
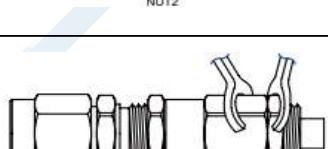


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Sequence Diagram

Phase Trimmer Instructions

Diagram	Phase Trimmer Instructions
	Step 1: Loosen NUT1 before adjusting Phase. Use Spanner size 8mm.
	Step 2: Loosen NUT2 before adjusting Phase. Use Spanner size 8mm.
	Step 3: Adjust to the required phase: Keep BODY1 in a fixed position and adjust phase by manually turning BODY2.
	Step 4: Tighten NUT2 after adjusting phase. Use Spanner size 8mm.
	Step 5: Tighten NUT1 after adjusting phase. Use Spanner size 8mm.

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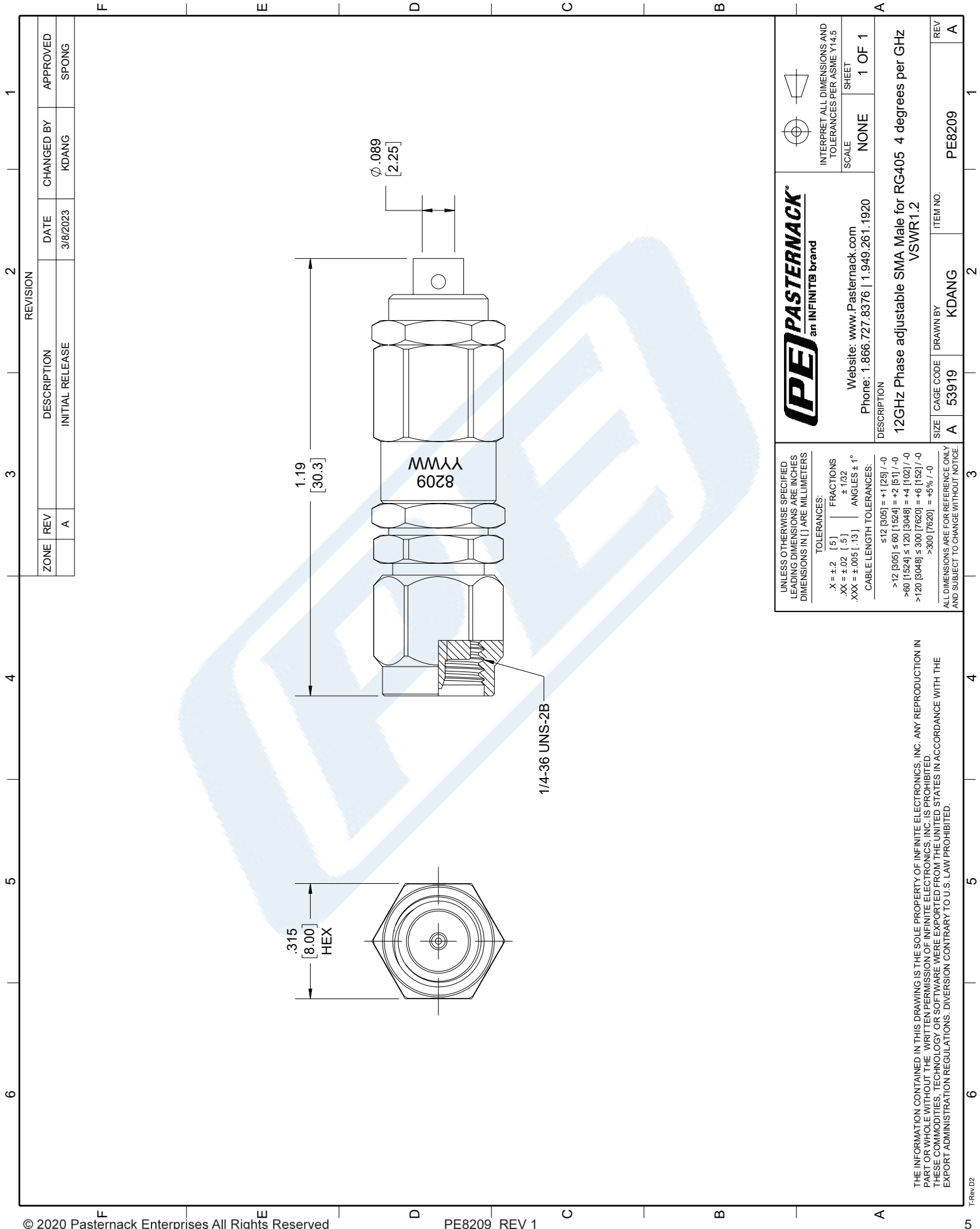
Adjustable Phase Trimmer, DC to 12 GHz, with an Adjustable Phase of 4 Deg. Per GHz and SMA male Connector for RG405, Brass Body from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are 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: [Adjustable Phase Trimmer, DC to 12 GHz, with an Adjustable Phase of 4 Deg. Per GHz and SMA male Connector for RG405, Brass Body PE8209](https://www.pasternack.com/adjustable-phase-trimmer-12-mhz-15-deg-per-ghz-sma-pe8209-p.aspx)

URL: <https://www.pasternack.com/adjustable-phase-trimmer-12-mhz-15-deg-per-ghz-sma-pe8209-p.aspx>

PE8209 CAD Drawing

Adjustable Phase Trimmer, DC to 12 GHz, with an Adjustable Phase of 4 Deg. Per GHz and SMA male Connector for RG405, Brass Body



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/8/2023	KDANG	SPONG

PE PASTERNAK an INFINITO brand		Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
DESCRIPTION 12GHz Phase adjustable SMA Male for RG405 4 degrees per GHz VSWR1.2					
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV	
A	53919	KDANG	PE8209	A	

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	TOLERANCES: .X = ±.2 [5] .XX = ±.02 [.5] .XXX = ±.005 [.13]	FRACTIONS ± 1/32 ANGLES ± 1°	CABLE LENGTH TOLERANCES: ≤12 [305] = ±1 [25] / -0 >12 [305] ≤ 60 [1524] = +2 [51] / -0 >60 [1524] ≤ 120 [3048] = +4 [102] / -0 >120 [3048] ≤ 300 [7620] = +6 [152] / -0 >300 [7620] = +5% / -0	ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.
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