



Adjustable Phase Trimmer, DC to 10 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA Connectors, Brass Body

Phase Shifters and Trimmers Technical Data Sheet

PE8204

Features

- Phase Adjustment: 15 Deg/GHz
- Frequency Range from DC to 10 GHz
- SMA Connectorized Design
- Insertion Loss: 0.3 dB Max
- Max VSWR 1.25:1
- Max Power Rating: 100 Watts (CW)

Applications

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

Description

Pasternack's PE8204 is a phase trimmer that has phase adjustment range of 15 degrees per GHz with a frequency range from DC to 10 GHz. With SMA male to SMA female connectors, this RF phase trimmer design is tried and true technology that offers exceptional RF performance characteristics that include a maximum VSWR of 1.25:1. 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		10	GHz
Impedance		50		Ohms
Phase Adjustment		15		Deg/GHz
Input VSWR			1.25:1	
Insertion Loss			0.3	dB
Input Power, CW			100	dBm

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 10				GHz
VSWR, Max	1.15:1	1.25:1				

Mechanical Specifications

Size

Length	2.598 in [65.99 mm]
Width/Diameter	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.08 lbs [36.29 g]
Body Material and Plating	Brass, 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 10 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA Connectors, Brass Body PE8204](#)

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Configuration

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

Environmental Specifications

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

Plotted and Other Data

Notes:

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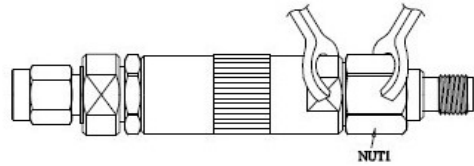
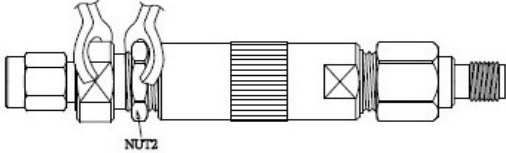
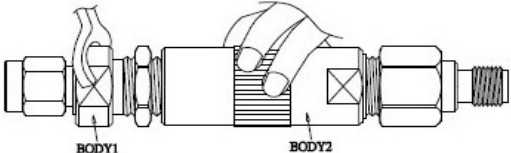
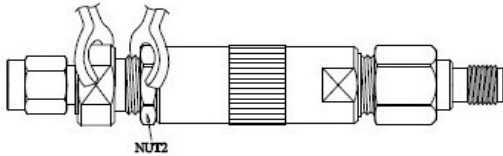
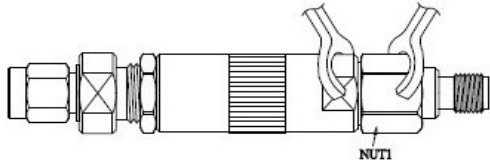


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Sequence Diagram

Phase Trimmer Instructions

Diagram	Phase Trimmer Instructions
	Step 1: Loosen NUT1 before adjusting Phase. Use Spanner size 11mm.
	Step 2: Loosen NUT2 before adjusting Phase. Use Spanner size 11mm.
	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 11mm.
	Step 5: Tighten NUT1 after adjusting phase. Use Spanner size 11mm. Note: After tightening NUT1 the SMA Female should be fixed (and not rotate)

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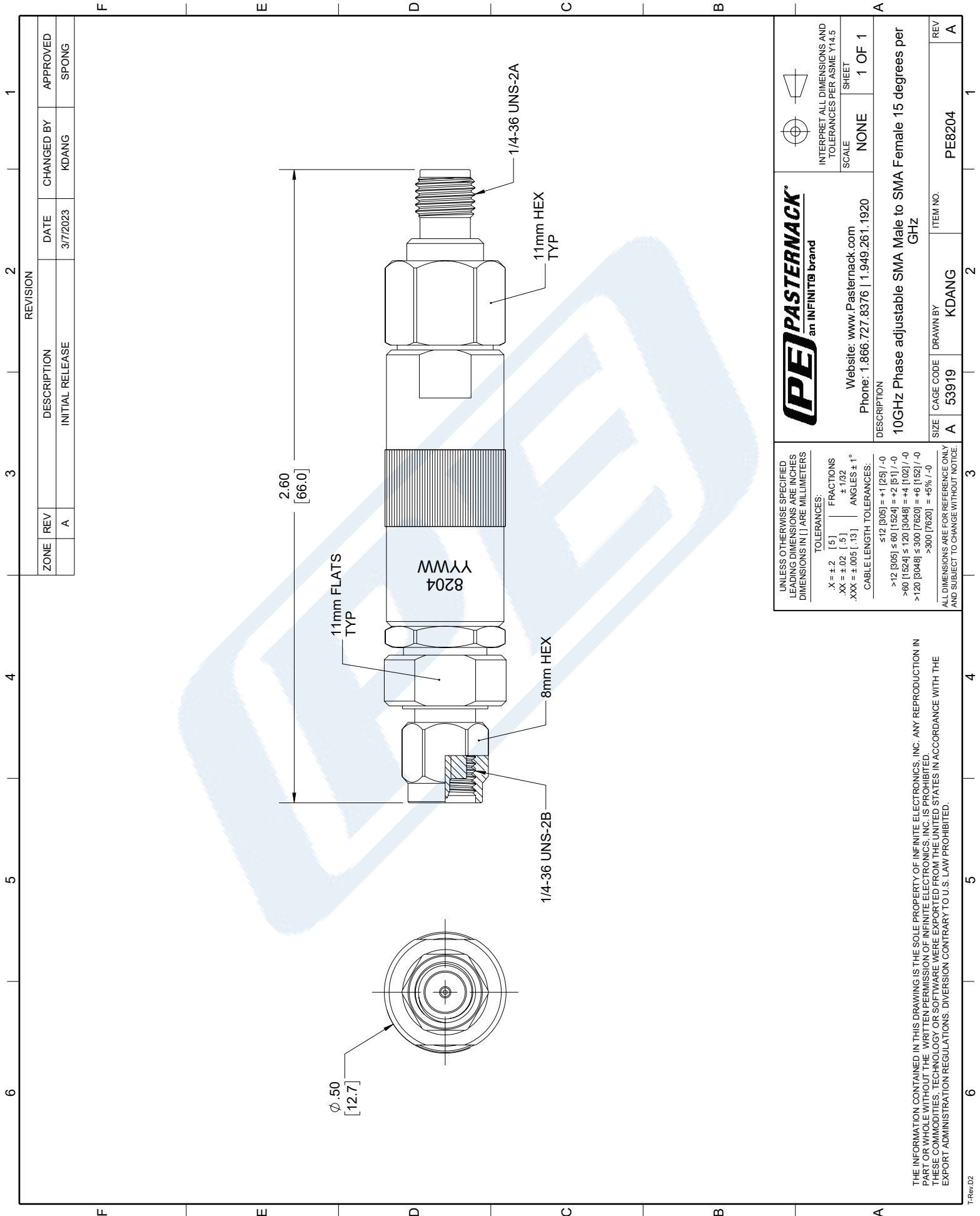
Adjustable Phase Trimmer, DC to 10 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA Connectors, Brass Body from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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PE8204 CAD Drawing

Adjustable Phase Trimmer, DC to 10 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA Connectors, Brass Body



ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	3/7/2023	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 10GHz Phase adjustable SMA Male to SMA Female 15 degrees per GHz				
SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	53919	KDANG	PE8204	A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS				
TOLERANCES: .X = ±.2 [5] FRACTIONS .XX = ±.02 [.5] ±.1/32 .XXX = ±.005 [.13] 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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