

Adjustable Phase Trimmer, DC to 10 GHz, with an Adjustable Phase of 19.16 Deg. Per GHz and SMA Connectors, Stainless Steel Body



Phase Shifters and Trimmers Technical Data Sheet

PE8207

Features

- Phase Adjustment: 19.16 Deg/GHz
- Frequency Range from DC to 10 GHz
- SMA Connectorized Design
- Insertion Loss: 0.35 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 PE8207 is a phase trimmer that has phase adjustment range of 19.16 degrees per GHz with a frequency range from DC to 10 GHz. With SMA female 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		19.16		Deg/GHz
Input VSWR			1.25:1	
Insertion Loss			0.35	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	2.559 in [65 mm]
Width/Diameter	0.394 in [10.01 mm]
Height	0.394 in [10.01 mm]
Weight	0.045 lbs [20.41 g]
Body Material and Plating	Passivated Stainless Steel

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 19.16 Deg. Per GHz and SMA Connectors, Stainless Steel Body PE8207](#)

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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 Female
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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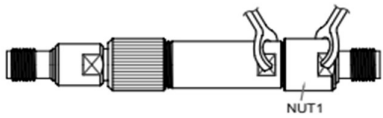
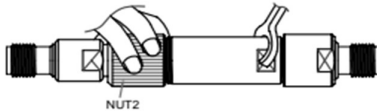
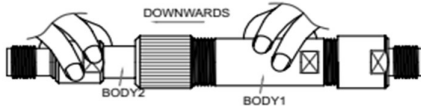
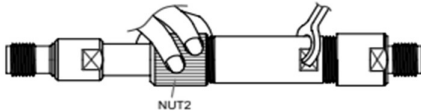
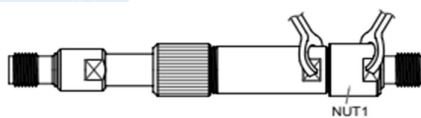


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Sequence Diagram

Phase Trimmer Instructions

Diagram	Phase Trimmer Instructions
	Step 1: Loosen NUT1 before adjusting Phase. Use Spanner size 8mm and 9mm.
	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 and 9mm.

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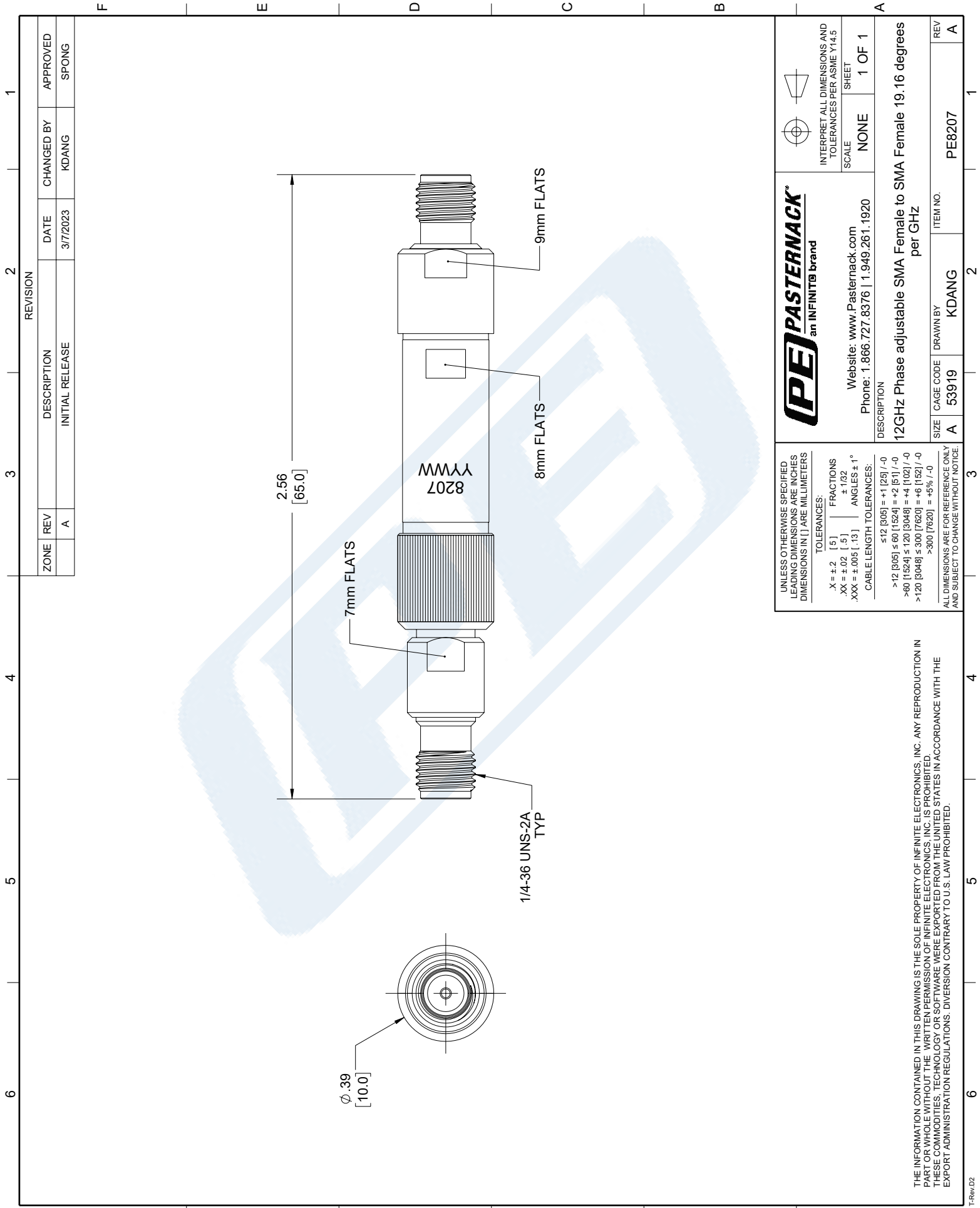
Adjustable Phase Trimmer, DC to 10 GHz, with an Adjustable Phase of 19.16 Deg. Per GHz and SMA Connectors, Stainless Steel Body from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are 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 10 GHz, with an Adjustable Phase of 19.16 Deg. Per GHz and SMA Connectors, Stainless Steel Body PE8207](https://www.pasternack.com/adjustable-phase-trimmer-10-mhz-15-deg-per-ghz-sma-pe8207-p.aspx)

URL: <https://www.pasternack.com/adjustable-phase-trimmer-10-mhz-15-deg-per-ghz-sma-pe8207-p.aspx>

PE8207 CAD Drawing

Adjustable Phase Trimmer, DC to 10 GHz, with an Adjustable Phase of 19.16 Deg. Per GHz and SMA Connectors, Stainless Steel Body



PE PASTERNAK an INFINITO brand	INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5	
	SCALE	NONE
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		SHEET 1 OF 1
DESCRIPTION 12GHz Phase adjustable SMA Female to SMA Female 19.16 degrees per GHz		
SIZE	CAGE CODE	ITEM NO.
A	53919	PE8207
DRAWN BY		REV
KDANG		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]	±1.20 [3048]	±.4 [102] / -0
>120 [3048]	±3.00 [7620]	±.6 [152] / -0
>300 [7620]	±5.0%	/ -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY
AND SUBJECT TO CHANGE WITHOUT NOTICE.

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