

Adjustable Phase Trimmer, DC to 18 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA male Connector for RG402, Brass Body



Phase Shifters and Trimmers Technical Data Sheet

PE8283

Features

- Phase Adjustment: 15 Deg/GHz
- Frequency Range from DC to 18 GHz
- SMA male Connectorized Design
- Connector Interface Type: RG402
- Insertion Loss: 0.6 dB Max
- Max VSWR 1.45:1
- Max Power Rating: 80 Watts (CW)

Applications

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

Description

Pasternack's PE8283 is a phase trimmer that has phase adjustment range of 15 degrees per GHz with a frequency range from DC to 18 GHz. With SMA male for RG402, this RF phase trimmer design is tried and true technology that offers exceptional RF performance characteristics that include a maximum VSWR of 1.45:1. 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		18	GHz
Impedance		50		Ohms
Phase Adjustment		15		Deg/GHz
Input VSWR			1.45:1	
Insertion Loss			0.6	dB
Input Power, CW			80	dBm

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 12	12 to 18				GHz
VSWR, Max	1.25:1	1.45:1				

Mechanical Specifications

Size

Length	2.008 in [51 mm]
Width/Diameter	0.5 in [12.7 mm]
Height	0.5 in [12.7 mm]
Weight	0.051 lbs [23.13 g]
Body Material and Plating	Brass, Copper-Tin-Zinc Alloy

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 18 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA male Connector for RG402, Brass Body PE8283](#)

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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

Environmental Specifications

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

Plotted and Other Data

Notes:

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Sequence Diagram

Phase Trimmer Assembly Instructions

Diagram	Assembly Instructions
	Step 1: Strip as shown
	Step 2: Slide adjustment nut "D" and HEX nut "F" over cable.
	Step 3: Put collet body "C" on cable and solder in "X". Step 4: Put Pin "B" on center conductor and solder in "Y".
	Step 5: Clip C ring "E" onto the back of collet body "C".
	Step 6: Screw adjustment nut "D" on the connector body "A". Step 7: Adjust to the required phase: Keep connector body "A" in a fixed position and adjust phase by manually turning adjustment nut "D".
	Step 8: Tighten nut after adjusting phase. Step 9: Tighten HEX nut "F" on the collet body "C"

Phase Trimmer Phase Adjustment 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.

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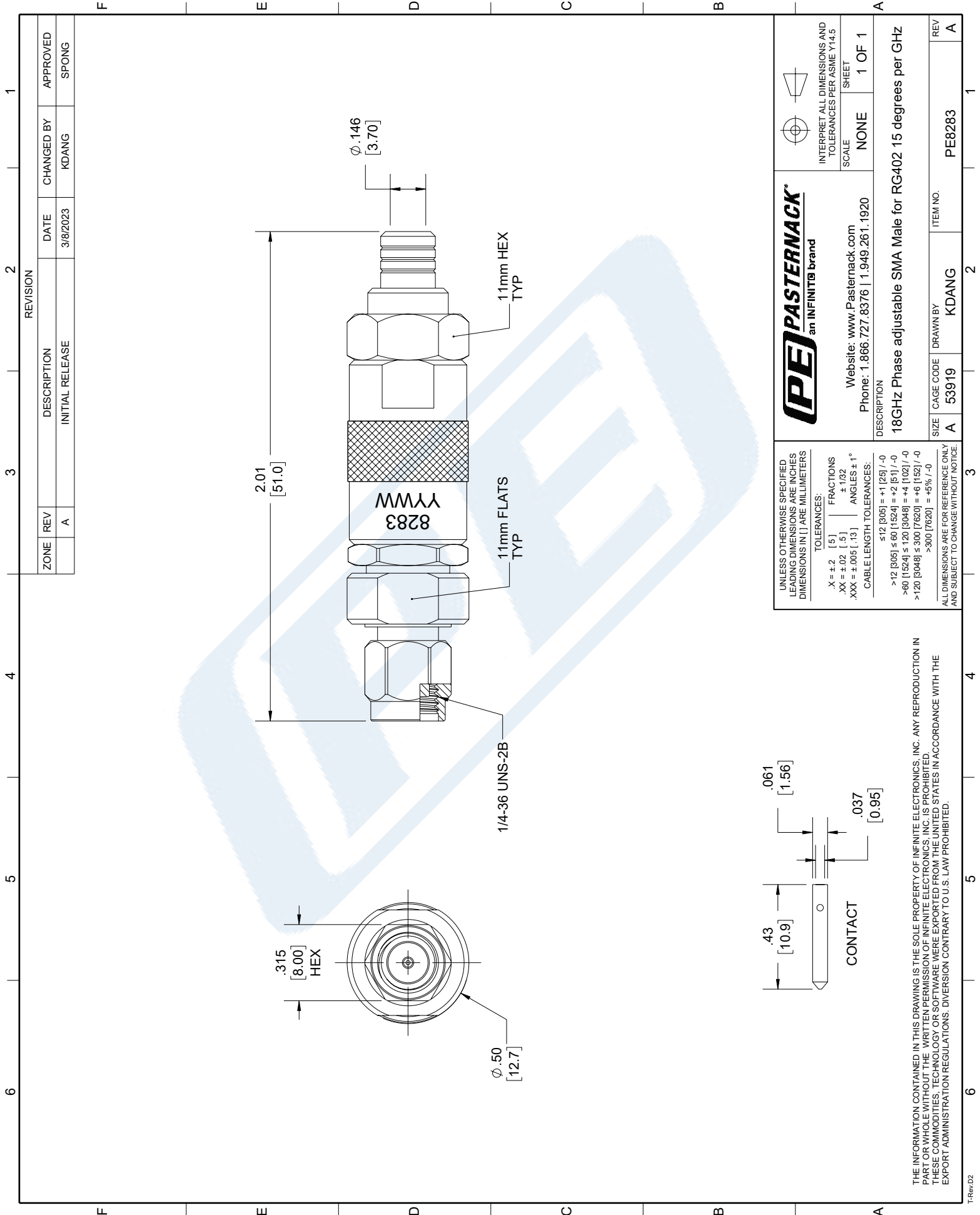
Adjustable Phase Trimmer, DC to 18 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA male Connector for RG402, Brass Body from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are 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 18 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA male Connector for RG402, Brass Body PE8283](https://www.pasternack.com/adjustable-phase-trimmer-18-mhz-15-deg-per-ghz-sma-pe8283-p.aspx)

URL: <https://www.pasternack.com/adjustable-phase-trimmer-18-mhz-15-deg-per-ghz-sma-pe8283-p.aspx>

PE8283 CAD Drawing

Adjustable Phase Trimmer, DC to 18 GHz, with an Adjustable Phase of 15 Deg. Per GHz and SMA male Connector for RG402, Brass Body



 an INFINITE brand		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE: NONE SHEET: 1 OF 1	
Website: www.Pasternack.com Phone: 1.866.727.8376 1.949.261.1920		DESCRIPTION: 18GHz Phase adjustable SMA Male for RG402 15 degrees per GHz	
SIZE: A	CAGE CODE: 53919	DRAWN BY: KDANG	ITEM NO.: PE8283
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.		REV: A	

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