



Phase Shifters and Trimmers Technical Data Sheet

PE82P5000

Features

- · Analog Phase Shifter
- 0.5 GHz to 2 GHz Frequency Range
- 360 Deg Typ Phase Shift

- 0 10 VDC Control Voltage Range
- 1 Watt CW Max InputPower
- Insertion Loss 13 dB Max

Applications

- Electronic Warfare
- Test & Measurement
- · Military & Space
- Radar

Military Communications Systems

Description

The PE82P5000 is a Digitally Controlled Analog Phase Shifter that operates from 0.5 GHz to 2 GHz. The unit has the capability for Phase Shifting from 0° to 360°. The unit consist of an Analog Phase Shifter and a Digital-To-Analog converter with 8 bits of logic input lines that allow 256 discrete values of Phase.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.5		2	GHz
Insertion Loss			13	dB
Phase Error			±10	dB
Amplitude Error			±1	dB
Switching Speed			500	ns
Voltage Supply 1			15	Vdc
Voltage Supply 2	-15			Vdc

Mechanical Specifications

Size

 Length
 4.95 in [125.73 mm]

 Width/Diameter
 3.38 in [85.85 mm]

 Height
 1 in [25.4 mm]

 Weight
 0.859 lbs [389.64 g]

Configuration

Input Connector SMA Female
Output Connector SMA Female
Control Connector 15 Pin D-Sub Male

Environmental Specifications

Temperature

Operating Range 0 to 50 deg C

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 8 Bit Programmable Phase Shifter, 500 MHz to 2 GHz, 360 Deg Phase Shift, 256 Steps and SMA PE82P5000

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

Sales@Pasternack.com • Techsupport@Pasternack.com





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Humidity MIL-STD-202F, METHOD 103B COND. B Shock MIL-STD-202F, METHOD 213B COND. B Vibration MIL-STD-202F, METHOD 204D COND. B Altitude MIL-STD-202F, METHOD 105C COND. B Temperature Cycle MIL-STD-202F, METHOD 107

Compliance Certifications (see product page for current document)

Plotted and Other Data Notes:

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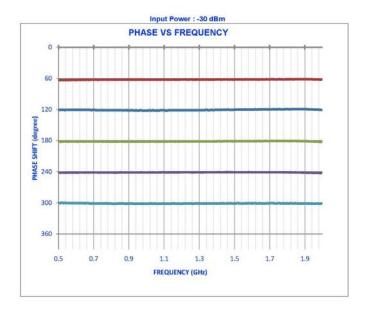


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Typical Performance Data

Phase Plot at 25° C



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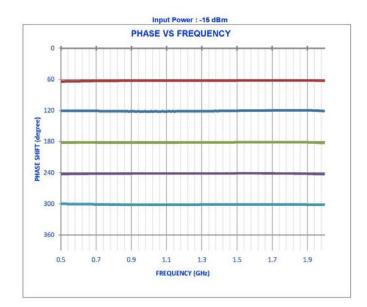




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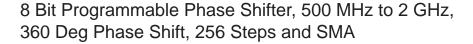
Phase Plot at 25° C



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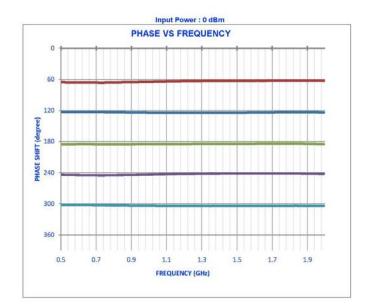




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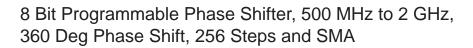
Phase Plot at 25° C



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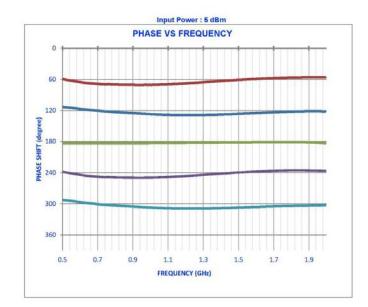




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Phase Plot at 25° C



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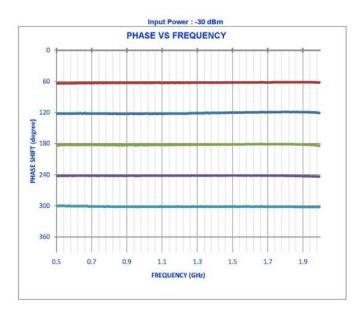




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Phase Plot at 0° C



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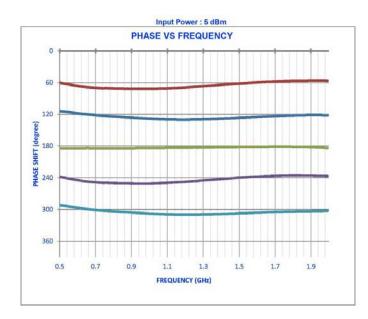




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Phase Plot Taken at 0° C



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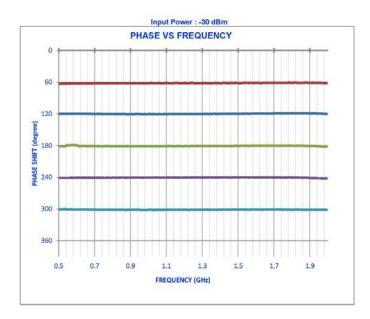




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Phase Plot Taken at 50° C



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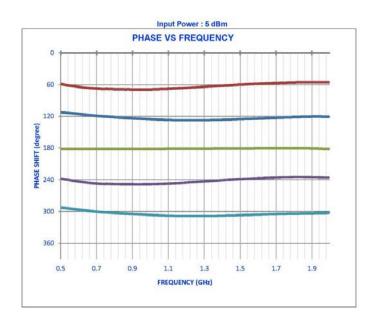




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Phase Plot Taken at 50° C



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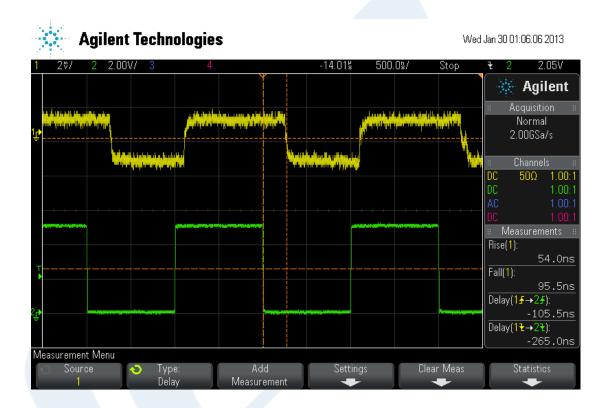




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Switching Speed



Channel 1 (Yellow Trace): RF output signal Channel 2 (Green Trace): TTL trigger signal

8 Bit Programmable Phase Shifter, 500 MHz to 2 GHz, 360 Deg Phase Shift, 256 Steps and SMA 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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URL: https://www.pasternack.com/8-bit-programmable-phase-shifter-2-ghz-sma-360-deg-256-steps-pe82p5000-p.aspx

PE82P5000 CAD Drawing

8 Bit Programmable Phase Shifter, 500 MHz to 2 GHz, 360 Deg Phase Shift, 256 Steps and SMA

