



Phase Shifters and Trimmers Technical Data Sheet

PE82P5002

Features

- 8 Bit Digital Controlled Phase Shifter
- 6 GHz to 18 GHz Frequency Range
- +/-15 Deg Max Accuracy
- 360 Deg Phase Shift in 256 Steps

- · 500 ns Max Switching Speed
- +20 dBm Max InputPower
- Insertion Loss 10 dB Typ

Applications

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

Military Communications Systems

Description

The PE82P5002 is an 8 Bit Digital Controlled Phase Shifter with 360 Deg Phase Range with a switching speed of 500 ns Max over the Operating Frequency Range from 6 GHz to 18 GHz. The Module is offered in a slim line housing measuring only 0.5" Height.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	6		18	GHz
Phase Shift	0		360	Degrees
Input VSWR			2:1	
Insertion Loss		10	12	dB
Phase Accuracy			±15	Degrees
PM/AM Error			±2.5	dB
Switching Speed			500	ns
Translation Rate	0		500	kHz
Carrier Suppression		18		dBc
Side Band Suppression		15		dBc
Harmonics		-25		dBc
Voltage Supply 1			5	Vdc
Current Supply 1			115	mA
Voltage Supply 2	-15		-12	Vdc
Current Supply 2			20	mA
Input Power, CW			0.1	Watts
Input Power, CW (Survival)			+20	dBm

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, 6 GHz to 18 GHz, 360 Deg Phase Shift, 256 Steps and SMA PE82P5002

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





Phase Shifters and Trimmers Technical Data Sheet

PE82P5002

Mechanical Specifications

Size

 Length
 1.6 in [40.64 mm]

 Width/Diameter
 1.75 in [44.45 mm]

 Height
 0.5 in [12.7 mm]

 Weight
 0.117 lbs [53.07 g]

Configuration

Input Connector SMA Female
Output Connector SMA Female

Environmental Specifications

Temperature

Operating Range -55 to 85 deg C Storage Range -65 to 125 deg C

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

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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, 6 GHz to 18 GHz, 360 Deg Phase Shift, 256 Steps and SMA PE82P5002

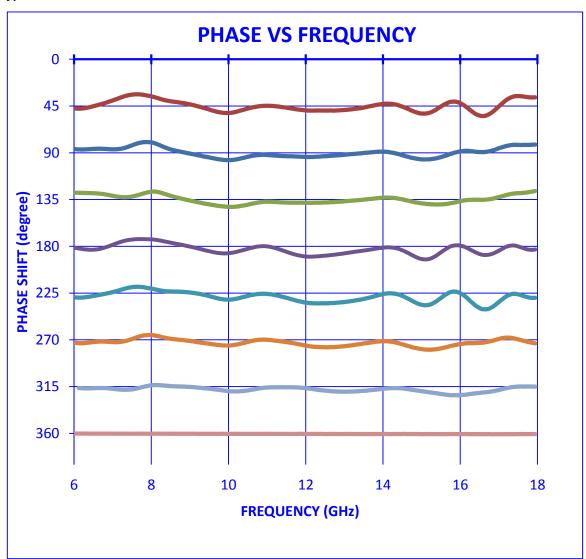




Phase Shifters and Trimmers Technical Data Sheet

PE82P5002

Typical Performance Data



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, 6 GHz to 18 GHz, 360 Deg Phase Shift, 256 Steps and SMA PE82P5002

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

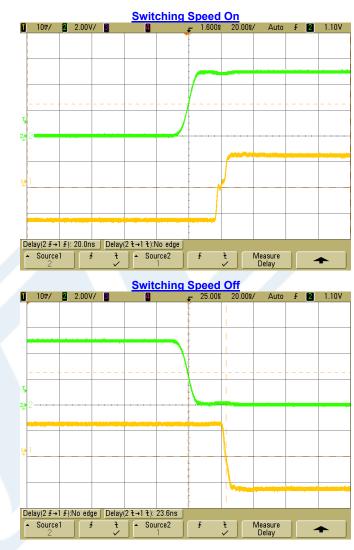
Sales@Pasternack.com • Techsupport@Pasternack.com





Phase Shifters and Trimmers Technical Data Sheet

PE82P5002



Green Trace: Waveform Generator TTL Levels Yellow Trace: RF Output through mixer IF Port

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, 6 GHz to 18 GHz, 360 Deg Phase Shift, 256 Steps and SMA PE82P5002

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





Phase Shifters and Trimmers Technical Data Sheet

PE82P5002

8 Bit Programmable Phase Shifter, 6 GHz to 18 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.

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, 6 GHz to 18 GHz, 360 Deg Phase Shift, 256 Steps and SMA PE82P5002

URL: https://www.pasternack.com/8-bit-programmable-phase-shifter-18-ghz-sma-360-deg-256-steps-pe82p5002-p.aspx

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

PE82P5002 CAD Drawing

8 Bit Programmable Phase Shifter, 6 GHz to 18 GHz, 360 Deg Phase Shift, 256 Steps and SMA

