



Adjustable Phase Shifter, DC to 4GHz, With an Adjustable Phase of 60 Deg. Per GHz with N-type connector

Phase Shifters and Trimmers Technical Data Sheet

PE82P5012

Features

- Phase Tuning Range: 0 to 240 degrees
- Rotary Dial Design for Continuous Adjustment
- Frequency Range from DC to 4GHz
- N-Type Female Connectorized Design
- Max VSWR 1.4:1
- Max Power Rating: 100 Watts (CW)
- Insertion Loss: 1dB Max

Applications

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

Description

Pasternack's PE82P5012 is a phase shifter that has phase adjustment range of 60 degrees per GHz with precision rotary dial design for controllable phase adjustment across a frequency range from 0 to 4GHz. With N-Type female connectors, this RF phase shifter design is tried and true technology that offers exceptional RF performance characteristics that include 1 dB maximum insertion loss and a maximum VSWR of 1.4:1. Phase shifters are part of Pasternack's comprehensive RF passive product offerings which are available in stock and ready for same-day shipment.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Phase Shift	0		240	Degrees
Phase Adjustment	0		60	Deg/GHz
VSWR			1.4:1	
Insertion Loss			1	dB
Input Power, CW			100	Watts
Input Power, Peak 5µs pulse, 1% duty cycle			5	kWatts

Mechanical Specifications

Size

Length	7.87 in [199.9 mm]
Width/Diameter	2.99 in [75.95 mm]
Height	1.2 in [30.48 mm]
Weight	1.08 lbs [489.88 g]
Body Material and Plating	Aluminum

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Adjustable Phase Shifter, DC to 4GHz, With an Adjustable Phase of 60 Deg. Per GHz with N-type connector PE82P5012](#)



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Configuration

Input Connector	N Female
Output Connector	N Female

Environmental Specifications

Temperature

Operating Range	-10 to 50 deg C
Storage Range	-40 to 70 deg C

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

Plotted and Other Data

Notes:

Adjustable Phase Shifter, DC to 4GHz, With an Adjustable Phase of 60 Deg. Per GHz with N-type connector 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.

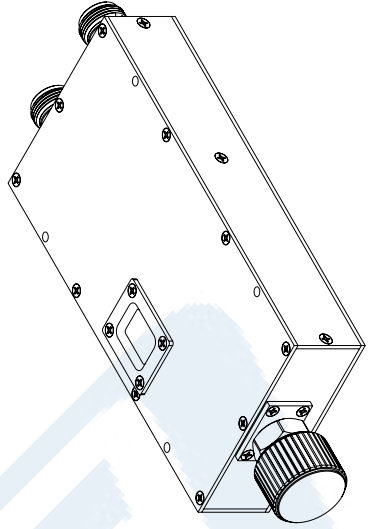
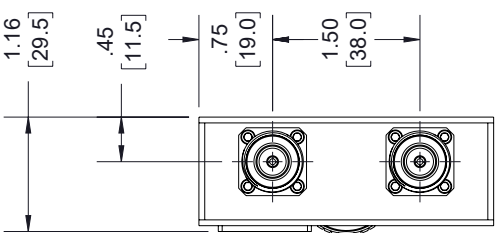
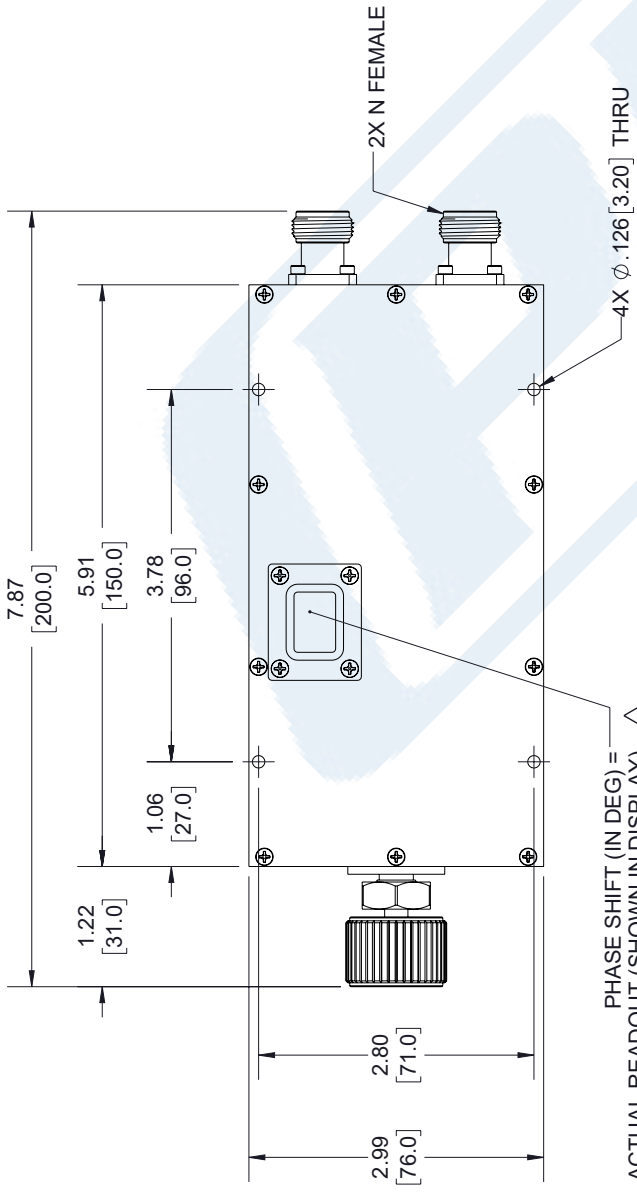
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URL: <https://www.pasternack.com/adjustable-phase-shifter-4-ghz-60-deg-per-ghz-n-pe82p5012-p.aspx>

PE82P5012 CAD Drawing

Adjustable Phase Shifter, DC to 4GHz, With an Adjustable Phase of 60 Deg. Per GHz with N-type connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE82P5004 20220908	11/07/2022	S. PONG



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5.08] FRACTIONS ± 1/32
 .XX = ±.02 [.51] ANGLES ± 1°
 .XXX = ±.005 [.13] CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] = +1 [25] / -0
 12 [305] < L ≤ 60 [1524] = +2 [51] / -0
 60 [1524] < L ≤ 120 [3048] = +4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = +6 [152] / -0
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

PE PASTERNAK
an INFINITI brand

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE N/A

REV B
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