

Adjustable Phase Shifter, DC to 4GHz, With an Adjustable Phase of 180 Deg. Per GHz and SMA

Fairview Microwave FM82P5010 is a phase shifter that has phase adjustment range of 180 degrees per GHz with precision rotary dial design for controllable phase adjustment across a frequency range from 0 to 4GHz. With SMA female connectors, this RF phase shifter design is tried and true technology that offers exceptional RF performance characteristics that include 2 dB maximum insertion loss and a maximum VSWR of 1.5:1. 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	Min	Typ	Max	Units
Frequency Range	DC		4	GHz
Impedance		50		Ohms
Phase Shift	0		720	Degrees
Phase Adjustment	0		180	Deg/GHz
VSWR			1.5:1	
Insertion Loss			2	dB
Input Power, CW			100	Watts
Input Power, Peak 5µs pulse, 1% duty cycle			5	kWatts

Features:

- Phase Tuning Range: 0 to 720 degrees
- Rotary Dial Design for Continuous Adjustment
- Frequency Range from DC to 4GHz
- SMA Female Connectorized Design
- Max VSWR 1.5:1
- Max Power Rating: 100 Watts (CW)
- Insertion Loss: 2 dB Max

Applications:

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

Mechanical Specifications

Size	
Length	14.65 in [372.11 mm]
Width/Diameter	2.99 in [75.95 mm]
Height	1.2 in [30.48 mm]
Weight	1.75 lbs [793.79 g]
Body Material and Plating	Aluminum
Configuration	
Input Connector	SMA Female
Output Connector	SMA 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:

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Adjustable Phase Shifter, DC to 4GHz, With an Adjustable Phase of 180 Deg. Per GHz and SMA from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

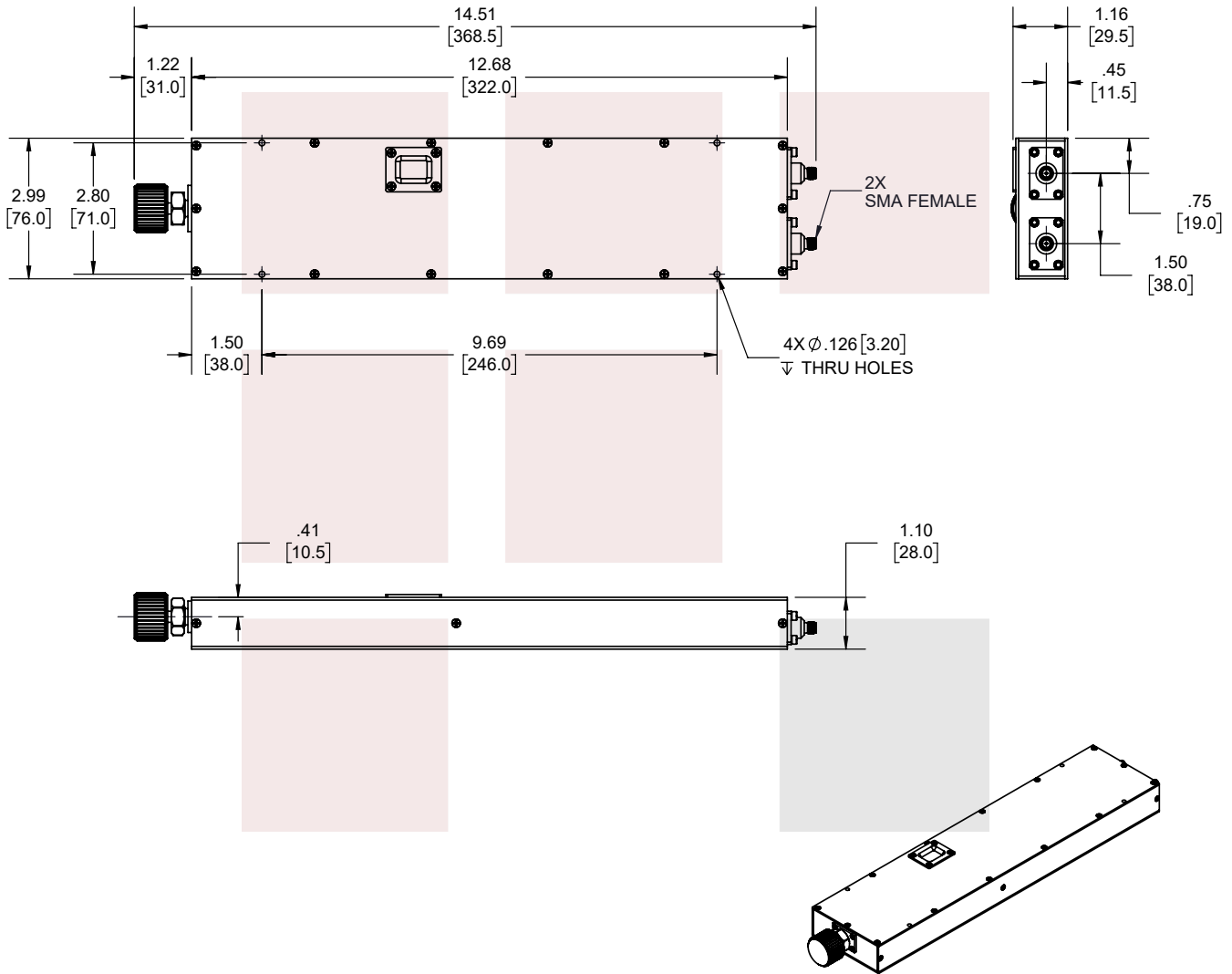
For additional information on this product, please click the following link: [Adjustable Phase Shifter, DC to 4GHz, With an Adjustable Phase of 180 Deg. Per GHz and SMA FM82P5010](#)

URL: <https://www.fairviewmicrowave.com/sma-adjustable-phase-shifter-dc-4-ghz-fm82p5010-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	5/13/2022	S. PONG



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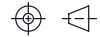
TITLE
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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	ITEM NO. FM82P5010	REV A
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