

DESCRIPTION

PMI MODEL PS-90-6012-PH5-HS50NS-15V IS A HIGH SPEED 6 TO 12 GHz FREQUENCY RANGE, 0 TO 180 DEGREE, MINIATURE, BI-PHASE MODULATOR/PHASE SHIFTER WITH TTL CONTROL LOGIC (ECL LOGIC IS AVAILABLE). THE UNITS ARE ALL PHASE MATCHED WITHIN $\pm 5^\circ$ OF EACH OTHER.

SPECIFICATIONS

- FREQUENCY RANGE: 6 TO 12 GHz
- INSERTION LOSS: 2.5 dB TYPICAL
3.0 dB MAXIMUM
- VSWR INPUT: 2.0:1 TYPICAL
2.5:1 MAXIMUM
- OPERATING INPUT POWER: +20 dBm OPERATING
- SPEED: 50 nS TYPICAL ON/OFF
- MAXIMUM RF INPUT: 0.5 WATT CW, 1 μ S PULSE WIDTH SURVIVAL
- CARRIER SUPPRESSION: 20 dB TYPICAL
- POWER PLUS: +15 VDC @ 75 mA MAXIMUM
- POWER MINUS: -15 VDC @ 20 mA MAXIMUM
- SIZE: 1.0" x 1.0" x 0.5"
- WEIGHT: <2 OUNCES
- FINISH: PAINTED BLUE

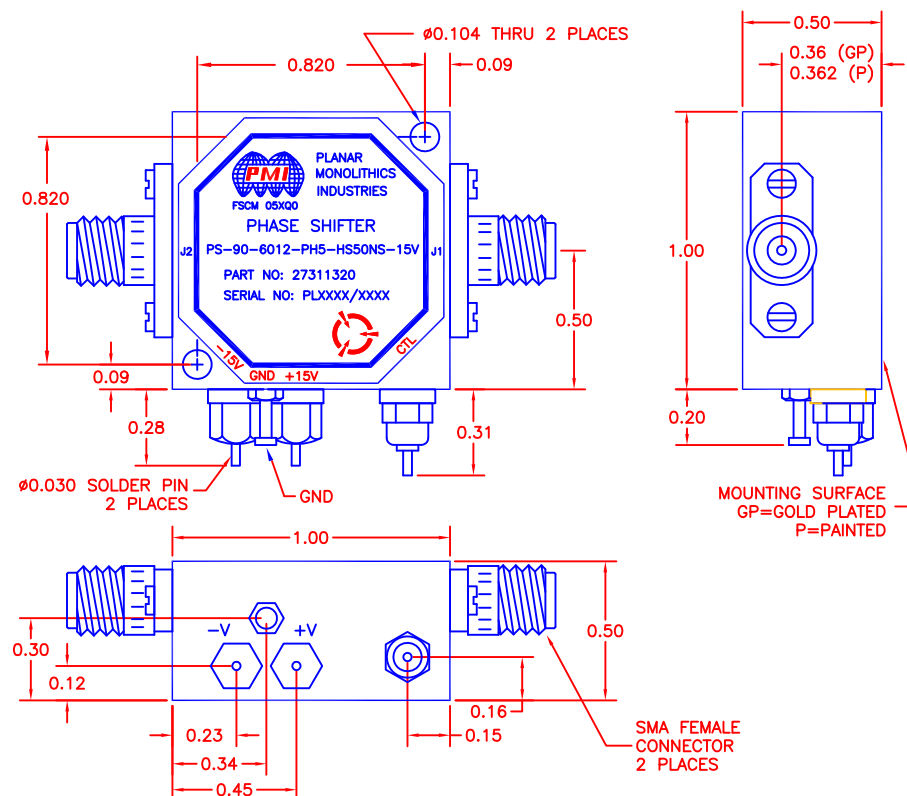
ENVIRONMENTAL RATINGS

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- 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 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	9/22/09	



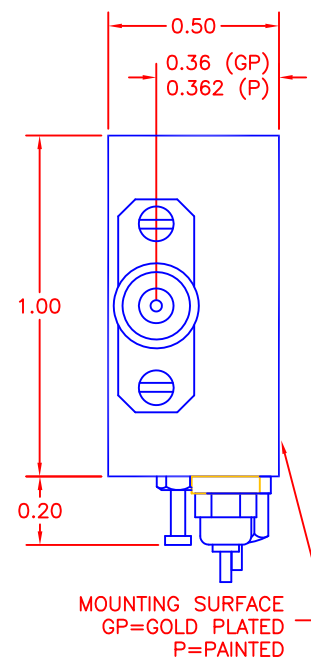
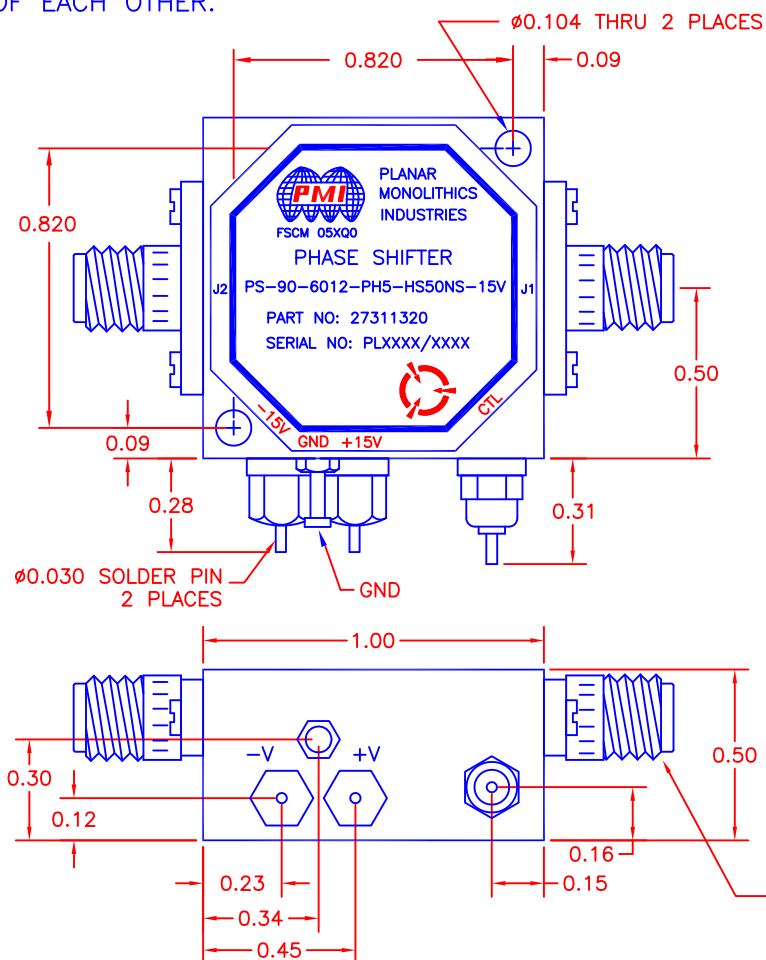
PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
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WEBSITE: www.pmi-rf.com
E-MAIL: sales@pmi-rf.com
ISO 9001:2008 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		11/23/09		PRODUCT FEATURE	
CHECKED				PS-90-6012-PH5-HS50NS-15V	
ISSUED				6 TO 12 GHz, BI-PHASE MODULATOR/PHASE SHIFTER	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		27011321	
SCALE		N:S		SHEET	
				1 OF 3	

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MECHANICAL OUTLINE

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TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

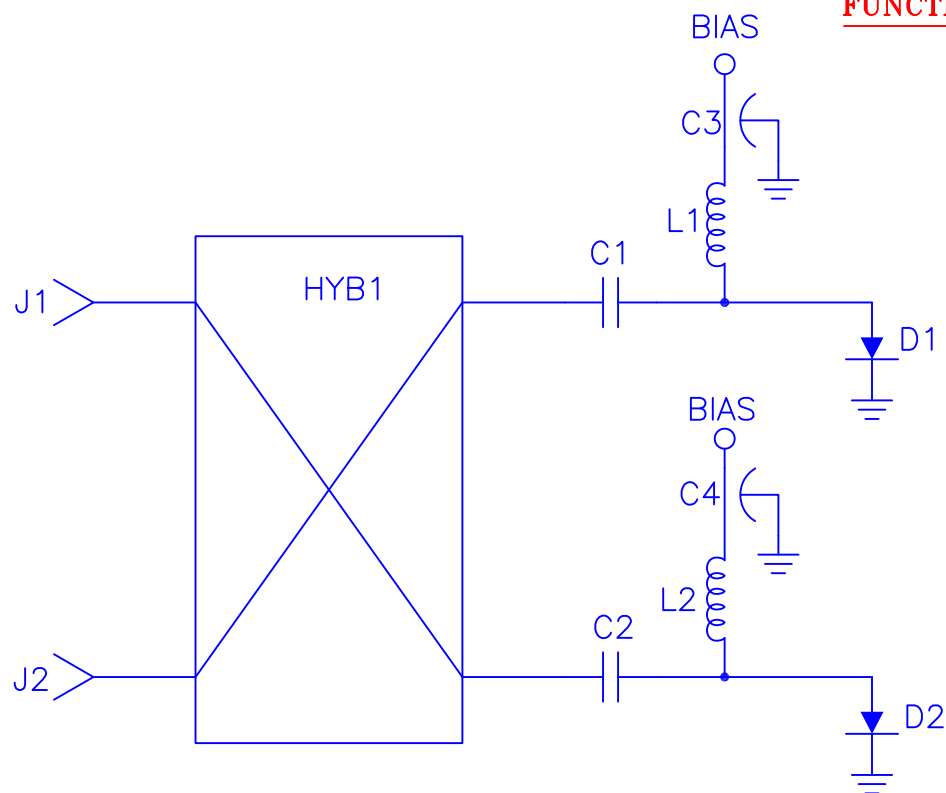
		TITLE		MECHANICAL OUTLINE	
APPROVALS	DATE	PS-90-6012-PH5-HS50NS-15V 6 TO 12 GHZ, BI-PHASE MODULATOR/PHASE SHIFTER			
DRAWN <i>JDJ</i>	<i>11/28/04</i>				
CHECKED		SIZE	FSCM NO.	DWG NO.	REV.
		A	05XQ0	27011321	A
ISSUED		SCALE N:S		SHEET 2 OF 3	

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REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A	ORIGINAL RELEASE	9/22/09

FUNCTIONAL BLOCK DIAGRAM



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CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE		TITLE			
DRAWN		11/23/09		FUNCTIONAL BLOCK DIAGRAM			
CHECKED				PS-90-6012-PH5-HS50NS-15V			
ISSUED				6 TO 12 GHz, BI-PHASE MODULATOR/PHASE SHIFTER			
				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	27011321	A
				SCALE N:S		SHEET 3 OF 3	