

## DESCRIPTION

PMI MODEL PS-90-6012-HS15NS-OPT7G IS A HIGH SPEED 7 GHz FREQUENCY RANGE, 0 TO 180 DEGREE, MINIATURE, BI-PHASE MODULATOR/PHASE SHIFTER WITH TTL CONTROL LOGIC (ECL LOGIC IS AVAILABLE).

## SPECIFICATIONS

- FREQUENCY RANGE: ----- 7 GHz
- INSERTION LOSS: ----- 2.5 dB TYPICAL  
3.0 dB MAXIMUM
- PHASE SHIFT ACCURACY: -----  $\pm 0^\circ$  GOAL,  $\pm 1^\circ$  MAXIMUM  
(@ ROOM TEMPERATURE)
- MODULATION RATE: ----- 1 MHz
- VSWR INPUT: ----- 2.0:1 TYPICAL  
2.5:1 MAXIMUM
- OPERATING INPUT POWER: ----- +20 dBm OPERATING
- SPEED: ----- 15 ns TYPICAL ON/OFF
- MAXIMUM RF INPUT: ----- 0.5 WATT CW, 1 usec PULSE WIDTH SURVIVAL
- CARRIER SUPPRESSION: ----- 20 dB TYPICAL
- DC SUPPLY: ----- +5 VDC @ 75 mA MAXIMUM  
-5 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-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

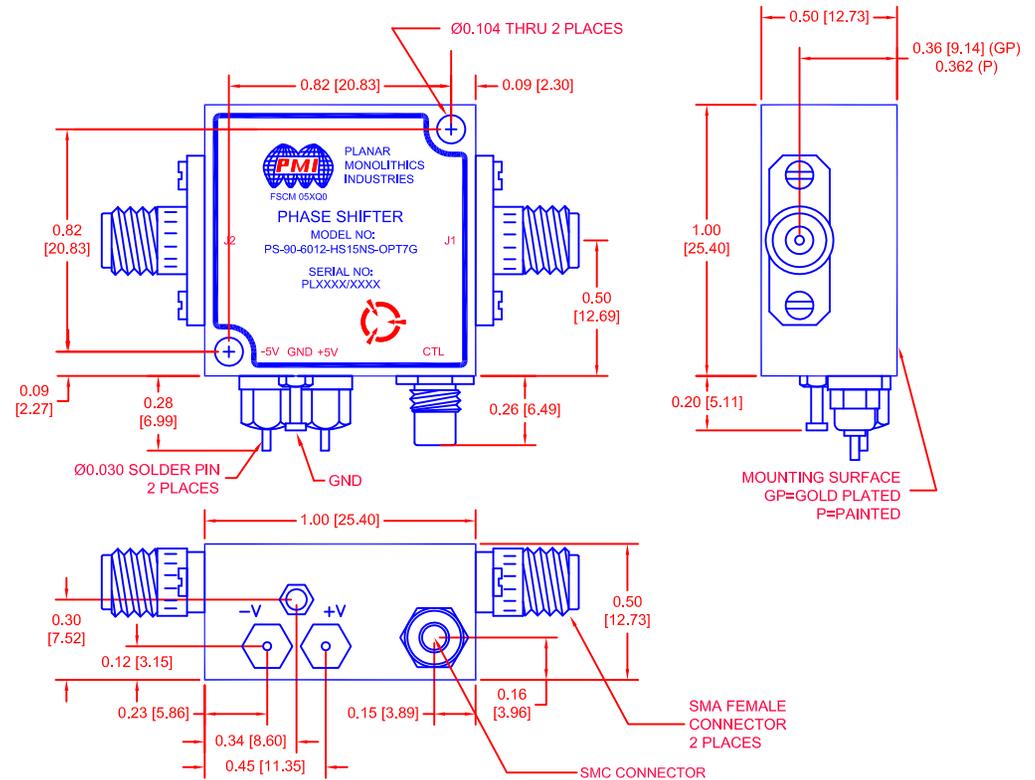
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS  
ARE IN INCHES [mm]  
TOLERANCES:  
X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	4/5/18	
	1	ADDED SMC CONNECTOR	4/6/18	

## MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE		
DRAWN	<i>NFA</i>	11/17/11	PRODUCT FEATURE PS-90-6012-HS15NS-OPT7G		
REDRAWN	<i>EW</i>	4/5/18	SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	PRELIMINARY
			SCALE	N:S	SHEET 1 OF 1
					REV. 1