

## DESCRIPTION

PMI MODEL: PS-90-4080 IS A 0° TO 180°, MINATURE BI-PHASE MODULATOR / PHASE SHIFTER, OPERATING OVER THE BAND FROM 4.0 TO 8.0 GHz WITH TTL CONTROL LOGIC AND LOW INSERTION LOSS.

## SPECIFICATIONS

- FREQUENCY RANGE: 4.0 TO 8.0 GHz
- INSERTION LOSS: 2.5 dB TYP, 3.0 dB MAX
- VSWR: 2.0:1 TYP
- OPERATING INPUT POWER: +20 dBm NOM
- SPEED: 75 ns MAX
- MAXIMUM RF INPUT: 0.5 WATT CW
- CARRIER SUPPRESSION: 20 dB TYP
- DC POWER PLUS: +5 VDC @ 75 mA MAX
- DC POWER MINUS: -5 VDC @ 20 mA MAX
- SIZE: 1.0" X 1.0" X 0.5"
- WEIGHT: <2 oz

## ENVIRONMENTAL RATINGS

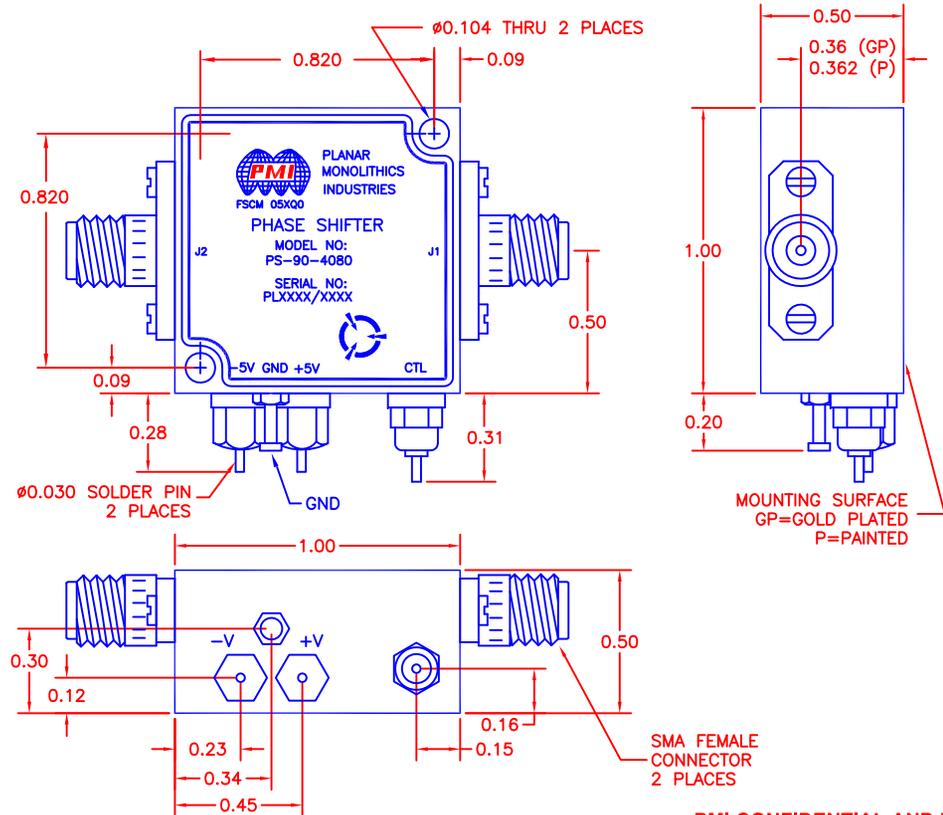
- TEMPERATURE: -55 °C TO +85 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D 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
	1	PRELIMINARY	4/16/15	JP

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>S. PALACIO</i>		4/16/15	PRODUCT FEATURE PS-90-4080 4.0 TO 8.0 GHz BI-PHASE MODULATOR			1
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	
ISSUED			SCALE N:S		SHEET 1 OF 1	