

DESCRIPTION

PMI MODEL PS-90-6012-HS15NS-OPT10G IS A HIGH SPEED 10 GHz FREQUENCY RANGE, 0 TO 180 DEGREE, MINIATURE, BI-PHASE MODULATOR/PHASE SHIFTER WITH TTL CONTROL LOGIC (ECL LOGIC IS AVAILABLE).

SPECIFICATIONS

- FREQUENCY RANGE: ----- 10 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

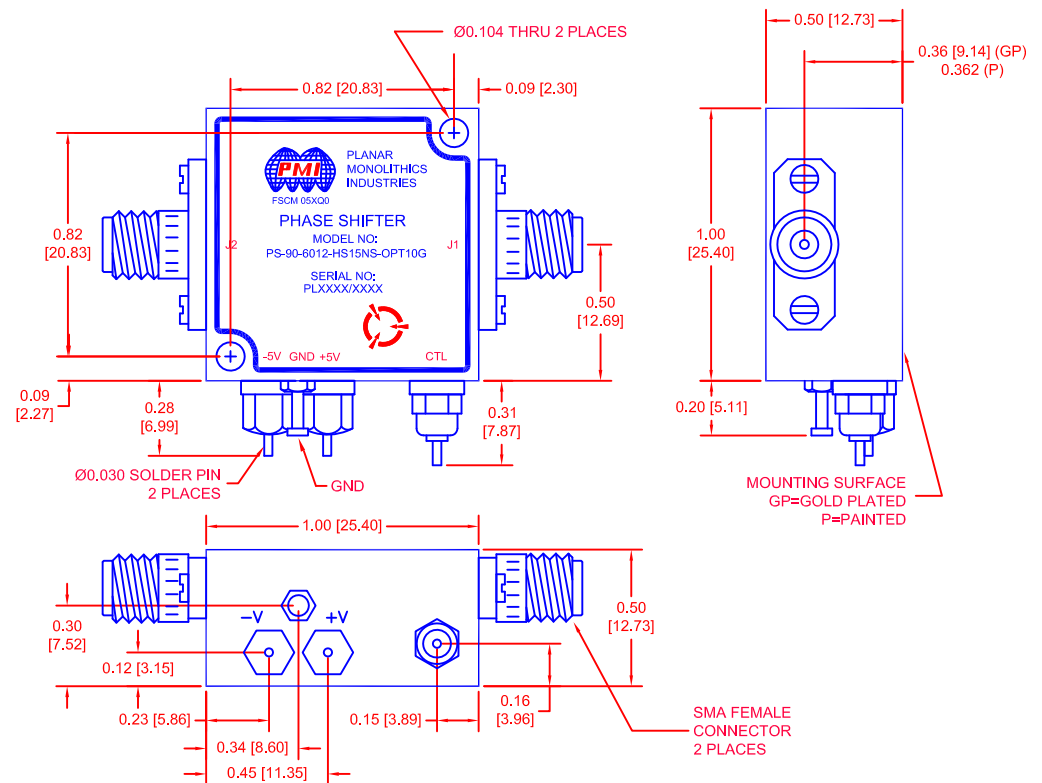
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/18/2017	
	B1	ECN # 18-0064	9/16/18	

MECHANICAL OUTLINE



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>NFA</i>	11/17/11	PRODUCT FEATURE PS-90-6012-HS15NS-OPT10G			B1
REDRAWN	<i>SPU</i>	11/18/17	SIZE	FSCM NO.	DWG NO.	
ISSUED			A	05XQ0	27033480	
			SCALE	N:S	SHEET	1 OF 1