

DESCRIPTION

PMI MODEL PS-90-6012 IS A 6 TO 12 GHz FREQUENCY RANGE, 0 TO 180 DEGREE, MINIATURE, BI-PHASE MODULATOR/PHASE SHIFTER WITH CONTROL LOGIC (ECL LOGIC IS AVAILABLE).

SPECIFICATIONS

- FREQUENCY RANGE: 6.0 TO 12.0 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: 75 ns MAXIMUM ON/OFF
- MAXIMUM RF INPUT: 0.5 WATT CW, 1 μ s PULSE WIDTH SURVIVAL
- CARRIER SUPPRESSION: 20 dB TYPICAL
- POWER PLUS: +5 VDC @ 75 mA MAXIMUM
- POWER MINUS: -5 VDC @ 20 mA MAXIMUM
- SIZE: 1.0" x 1.0" x 0.5"
- WEIGHT: <2.0 OZ.

OPTIONS:

- HS: HIGH SPEED AND HIGH MODULATION RATES
- 01: SMC MALE CONTROL CONNECTOR
- 02: SMB MALE CONTROL CONNECTOR
- 03: SMA FEMALE CONTROL CONNECTOR
- 04: TWO SMA MALE CONTROL CONNECTORS
- 05: ONE SMA MALE AND ONE SMA FEMALE CONTROL CONNECTORS
- 06: +12 VOLT POWER SUPPLY
- 07: -12 VOLT POWER SUPPLY
- 08: +15 VOLT POWER SUPPLY
- 09: -15 VOLT POWER SUPPLY

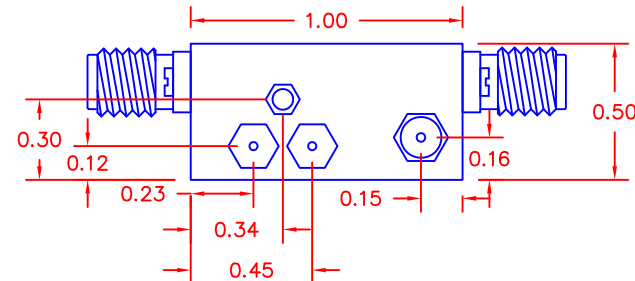
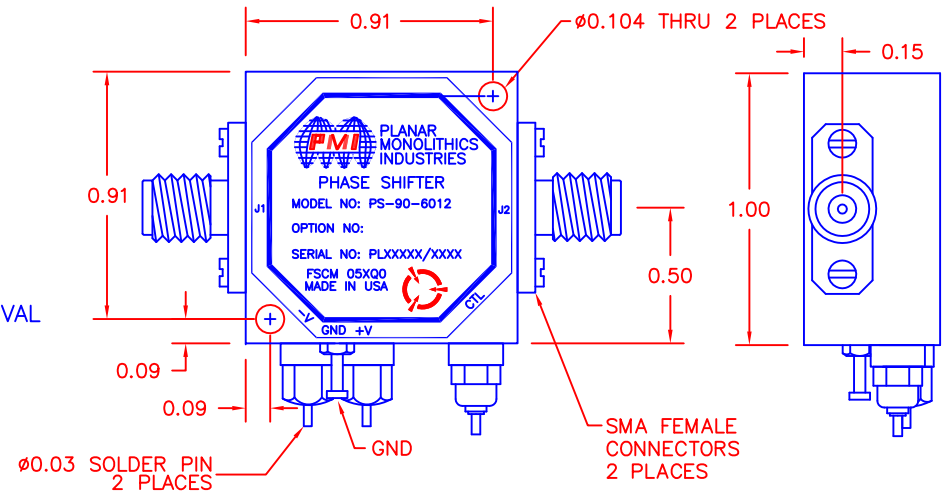
ENVIRONMENTAL RATINGS

- **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 $\pm$ 0.020
X.XXX $\pm$ 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	4/1/19	



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-G GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-631-1579 FAX: 301-662-2029
WEBSITE: www.planarmonolithicsindustries.com
E-MAIL: sales@planarmonolithics.com
ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>EMF</i>		7/6/15		PRODUCT FEATURE	
REDRAWN <i>EW</i>		4/1/19		PS-90-6012	
ISSUED				PRELIMINARY	
SIZE A		FSCM NO. 05XQ0		DWG NO.	
SCALE N:S				SHEET 1 OF 1	