

DESCRIPTION

THE PMI MODEL PS-90-2040 IS A MINIATURE, 0 TO 180 DEGREE BI-PHASE MODULATOR/PHASE SHIFTER WITH TTL CONTROL LOGIC (ECL LOGIC AVAILABLE) OPERATING OVER A FREQUENCY RANGE OF 2-4 GHz.

SPECIFICATIONS

- FREQUENCY RANGE: 2 TO 4 GHz
- PHASE SHIFT: 180° TYP.
LOGIC "0": 0°
LOGIC "1": 180°
- INSERTION LOSS: 2.5dB TYPICAL, 3.0dB MAXIMUM
- VSWR INPUT: 2.0:1
- OPERATING INPUT POWER: +20 dBm OPERATING
- SPEED: 75 nS TYPICAL ON/OFF
- MAXIMUM RF INPUT: 0.5 WATT CW, 1 uS PULSE WIDTH
- CARRIER SUPPRESSION: 20 dB TYPICAL
- POWER SUPPLY
+V: +5V @ 75mA MAXIMUM
-V: -5V @ 20mA MAXIMUM
- SIZE: 1.00" x 1.00" x 0.50"
- WEIGHT: ≤2.0 OZ.

OPTIONS

- HS: HIGH SPEED (15 nS TYPICAL)
- 01: SMC MALE CONTROL CONNECTOR
- 02: SMB MALE CONTROL CONNECTOR
- 03: SMA FEMALE CONTROL CONNECTOR
- 04: TWO SMA MALE RF CONNECTORS
- 05: ONE SMA MALE AND ONE SMA FEMALE RF CONNECTOR
- 06: +12 VDC POWER SUPPLY
- 07: -12 VDC POWER SUPPLY
- 08: +15 VDC POWER SUPPLY
- 09: -15 VDC POWER SUPPLY

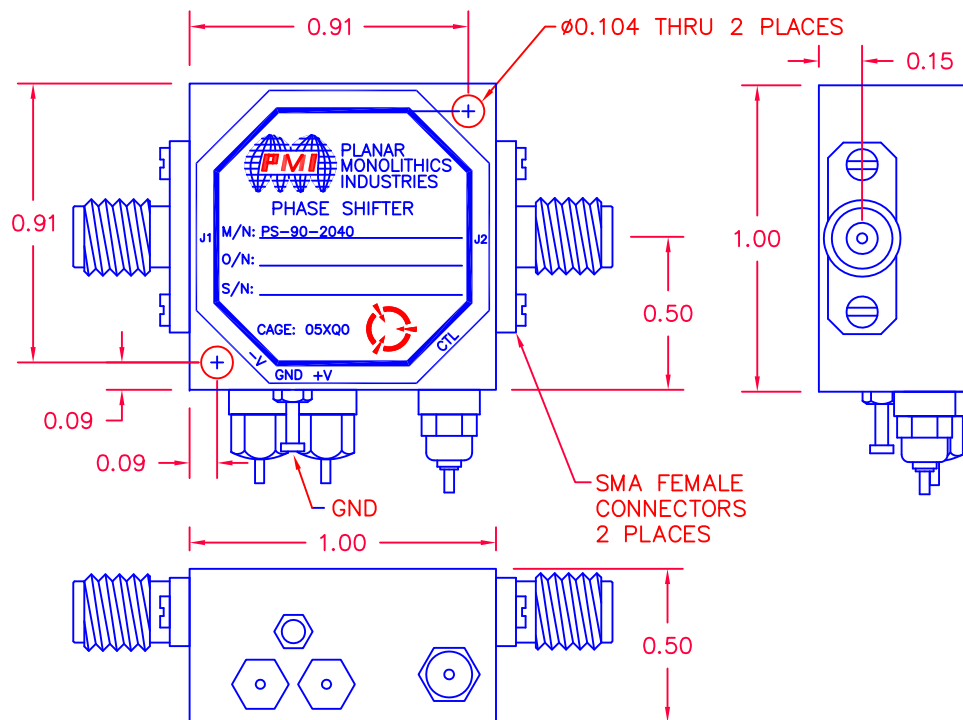
ENVIRONMENTAL RATINGS

- 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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		Preliminary Outline	5/28/15	



CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		6/28/05		PRODUCT FEATURE	
CHECKED				PS-90-2040	
ISSUED				2 - 4 GHz BI-PHASE MODULATOR/PHASE SHIFTER	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		Preliminary	
SCALE		N:S		SHEET	
				1 OF 3	

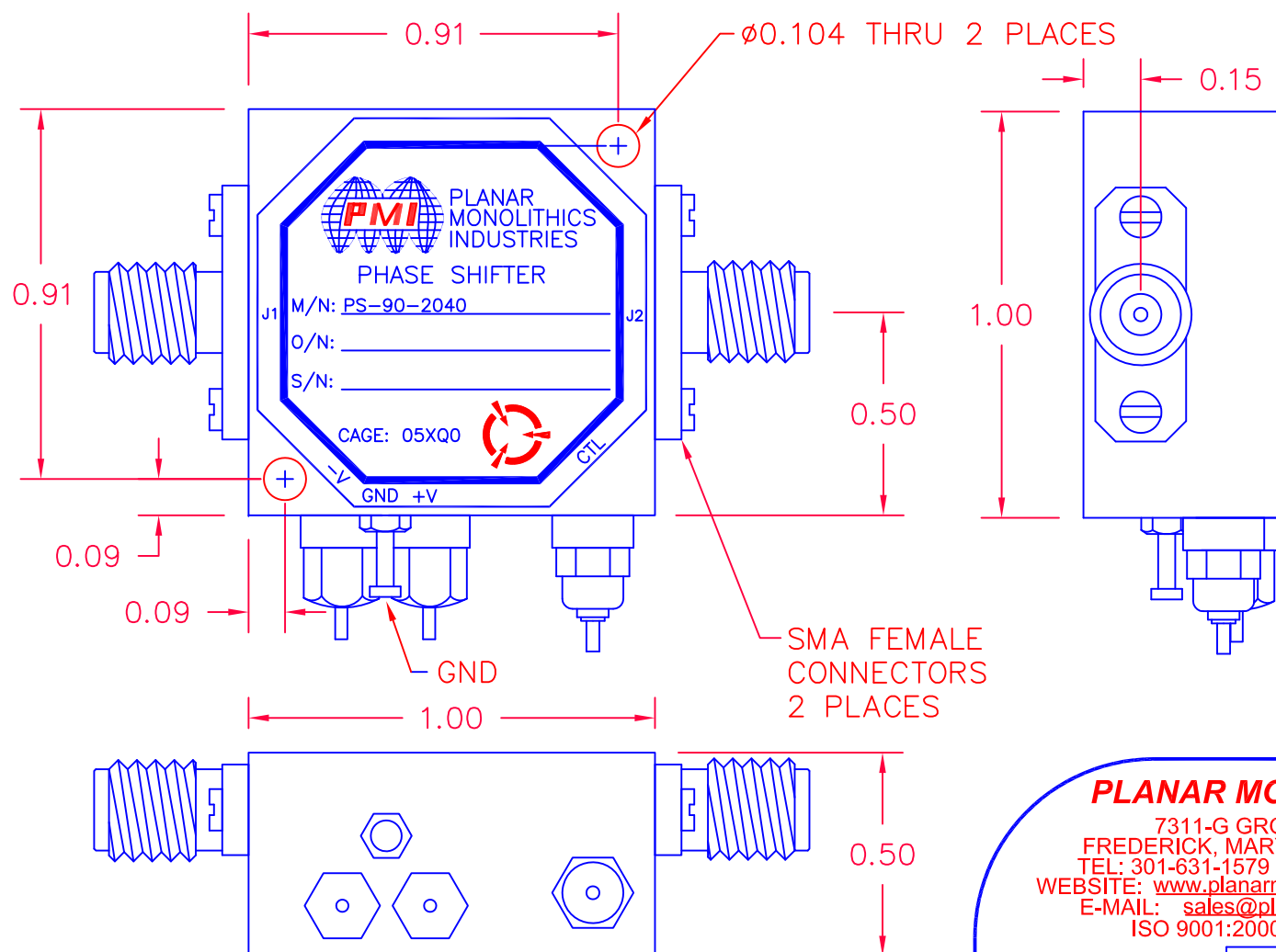
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MECHANICAL OUTLINE



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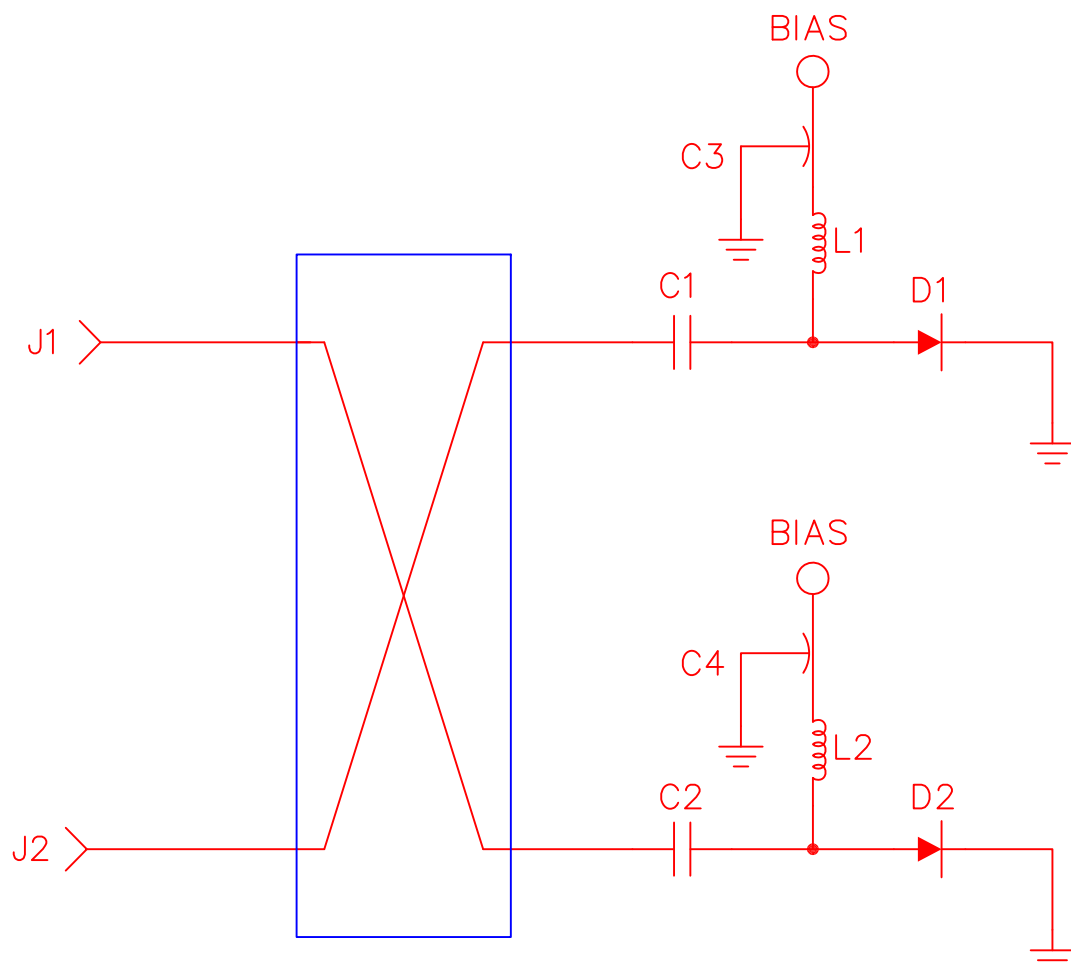


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TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

APPROVALS		DATE		TITLE	
DRAWN		6/28/05		MECHANICAL OUTLINE PS-90-2040	
CHECKED				2 - 4 GHz BI-PHASE MODULATOR/PHASE SHIFTER	
ISSUED				Preliminary	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		B	
SCALE		N:S		SHEET	
				2 OF 3	

DESCRIPTION

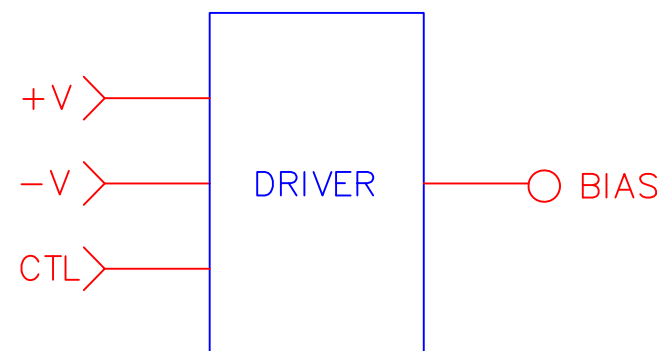
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		Preliminary Outline	5/28/15	

FUNCTIONAL BLOCK DIAGRAM



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APPROVALS		DATE		TITLE	
DRAWN		6/28/05		FUNCTIONAL BLOCK DIAGRAM PS-90-2040	
CHECKED				2 - 4 GHz BI-PHASE MODULATOR/PHASE SHIFTER	
ISSUED				Preliminary	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		REV. B	
SCALE		N:S		SHEET 3 OF 3	