

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

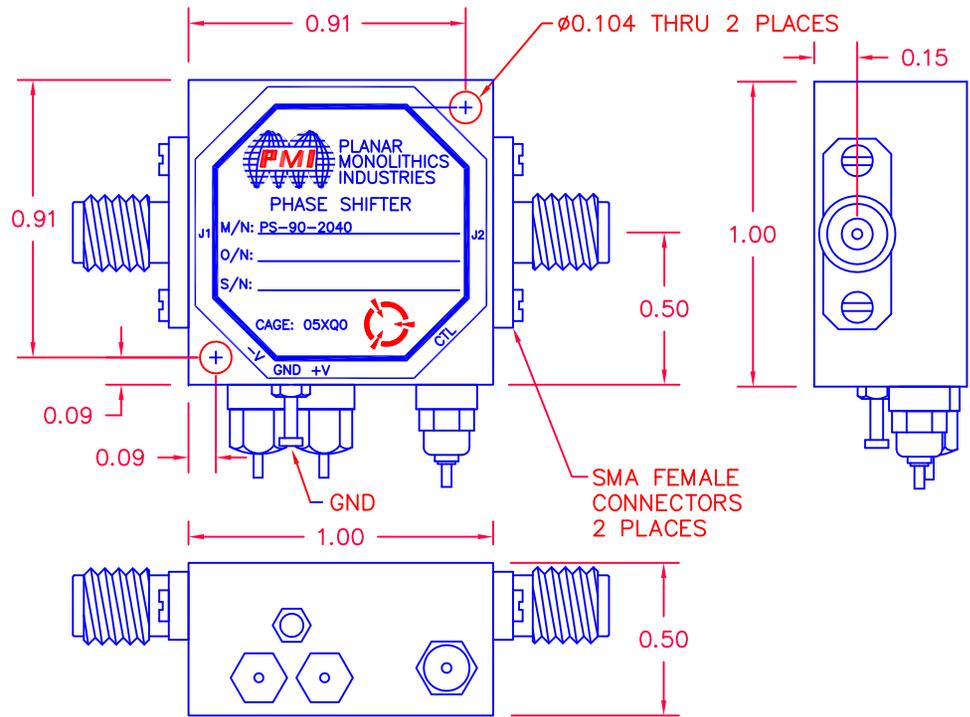
ENVIRONMENTAL RATINGS

- **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.

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 9001:2000 CERTIFIED

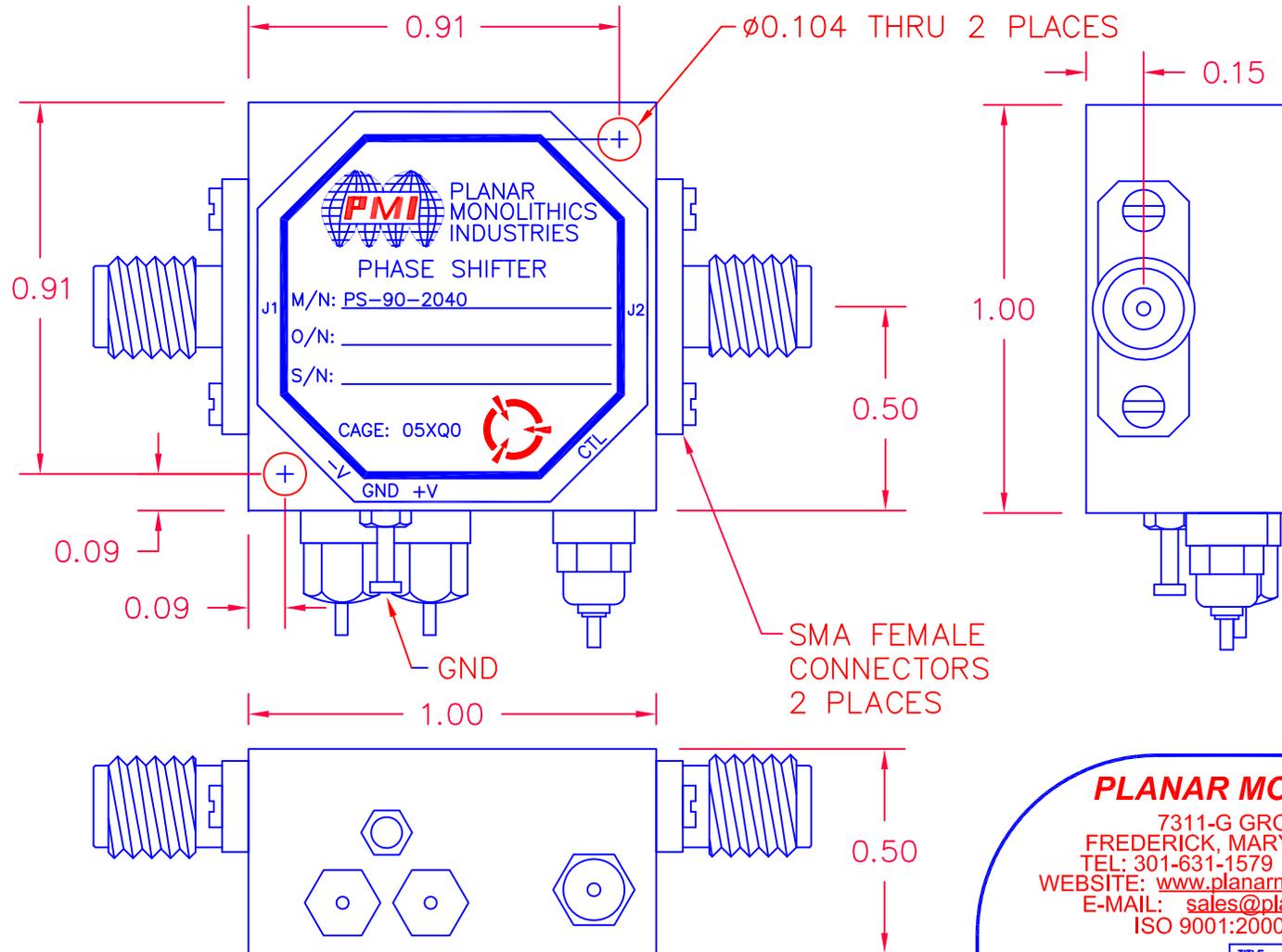


APPROVALS		DATE	TITLE		
DRAWN <i>878</i>		6/28/05	PRODUCT FEATURE PS-90-2040		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	Preliminary
			SCALE	SHEET	
			N:S	1 OF 3	

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.

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



MECHANICAL OUTLINE

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 9001:2000 CERTIFIED



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

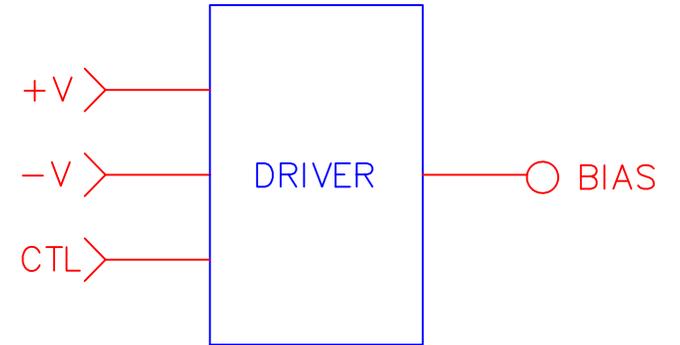
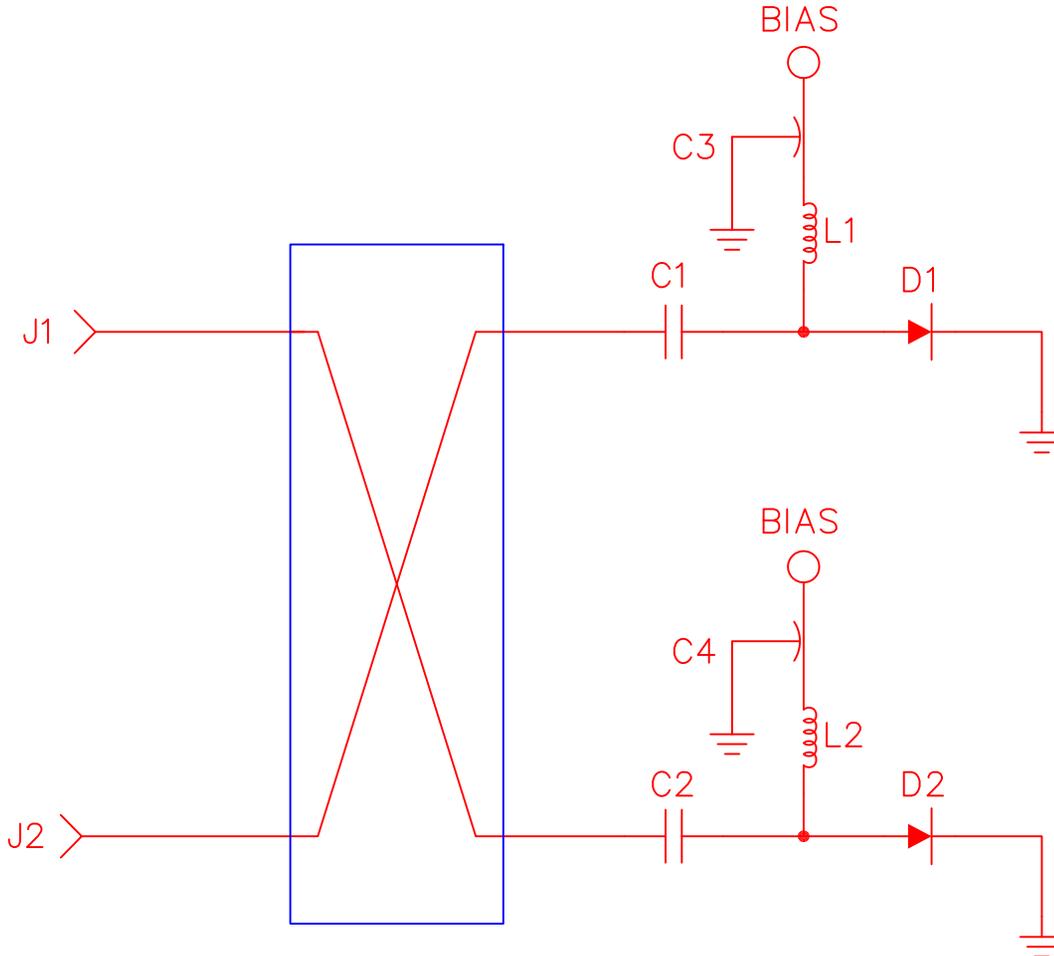
APPROVALS		DATE	TITLE			
DRAWN <i>878</i>		6/28/05	MECHANICAL OUTLINE PS-90-2040			
CHECKED			2 - 4 GHz BI-PHASE MODULATOR/PHASE SHIFTER			
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. Preliminary	REV. B
SCALE N:S			SHEET		2 OF 3	

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.

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

FUNCTIONAL BLOCK DIAGRAM



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 9001:2000 CERTIFIED



CONFIDENTIAL AND PROPRIETARY

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