

DESCRIPTION

THE PMI MODEL PS-90-8018 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 8.0 TO 18.0 GHz.

SPECIFICATIONS

- FREQUENCY RANGE: 8.0 TO 18.0 GHz
- INSERTION LOSS: 3.0 dB TYPICAL, 3.5 dB MAXIMUM
- VSWR INPUT: 2.0:1
- OPERATING INPUT POWER: +20 dBm OPERATING
- SPEED: 75 nS MAXIMUM ON/OFF
- MAXIMUM RF INPUT: 0.5 WATT CW, 1 μ S PULSE WIDTH
- CARRIER SUPPRESSION: 20 dB TYPICAL
- POWER SUPPLY
 - +V: +5V @ 75 mA MAXIMUM
 - V: -5V @ 20 mA MAXIMUM
- SIZE: 1.00" x 1.00" x 0.50"
- WEIGHT: $\leq$ 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

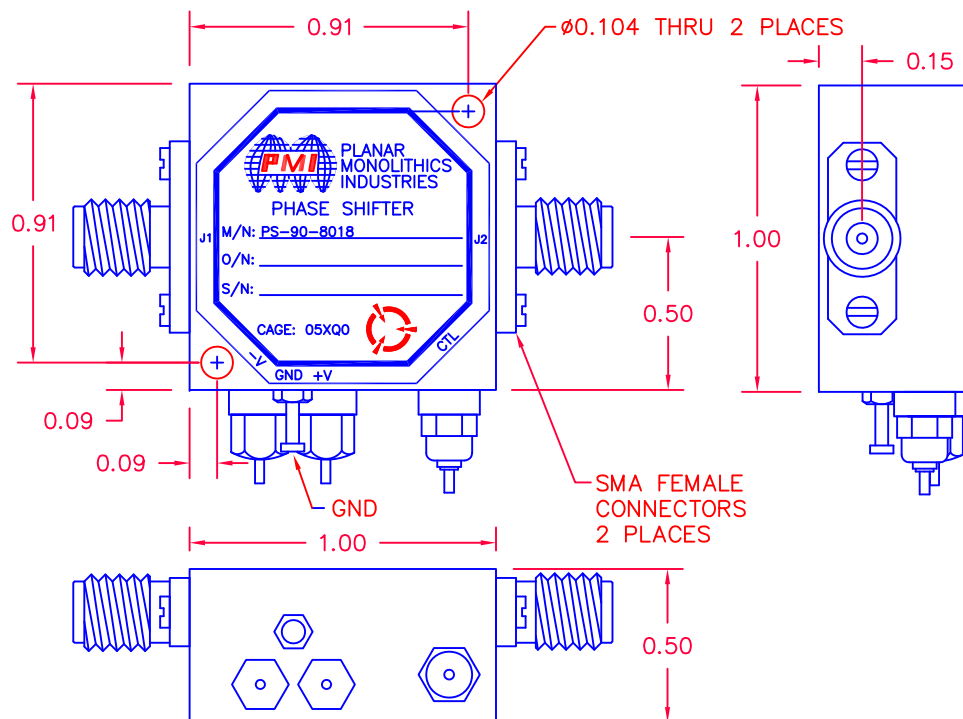
ENVIRONMENTAL RATINGS

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
		PRELIMINARY	10/06/16	



CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-G GROVE ROAD
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WEBSITE: www.planarmonolithicsindustries.com
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ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>EMF</i>		10/6/16		PRODUCT FEATURE PS-90-8018	
CHECKED				8-18 GHz BI-PHASE MODULATOR/PHASE SHIFTER	
ISSUED				PRELIMINARY	
SIZE A		FSCM NO. 05XQ0		DWG NO. PRELIMINARY	
SCALE N:S				SHEET 1 OF 2	

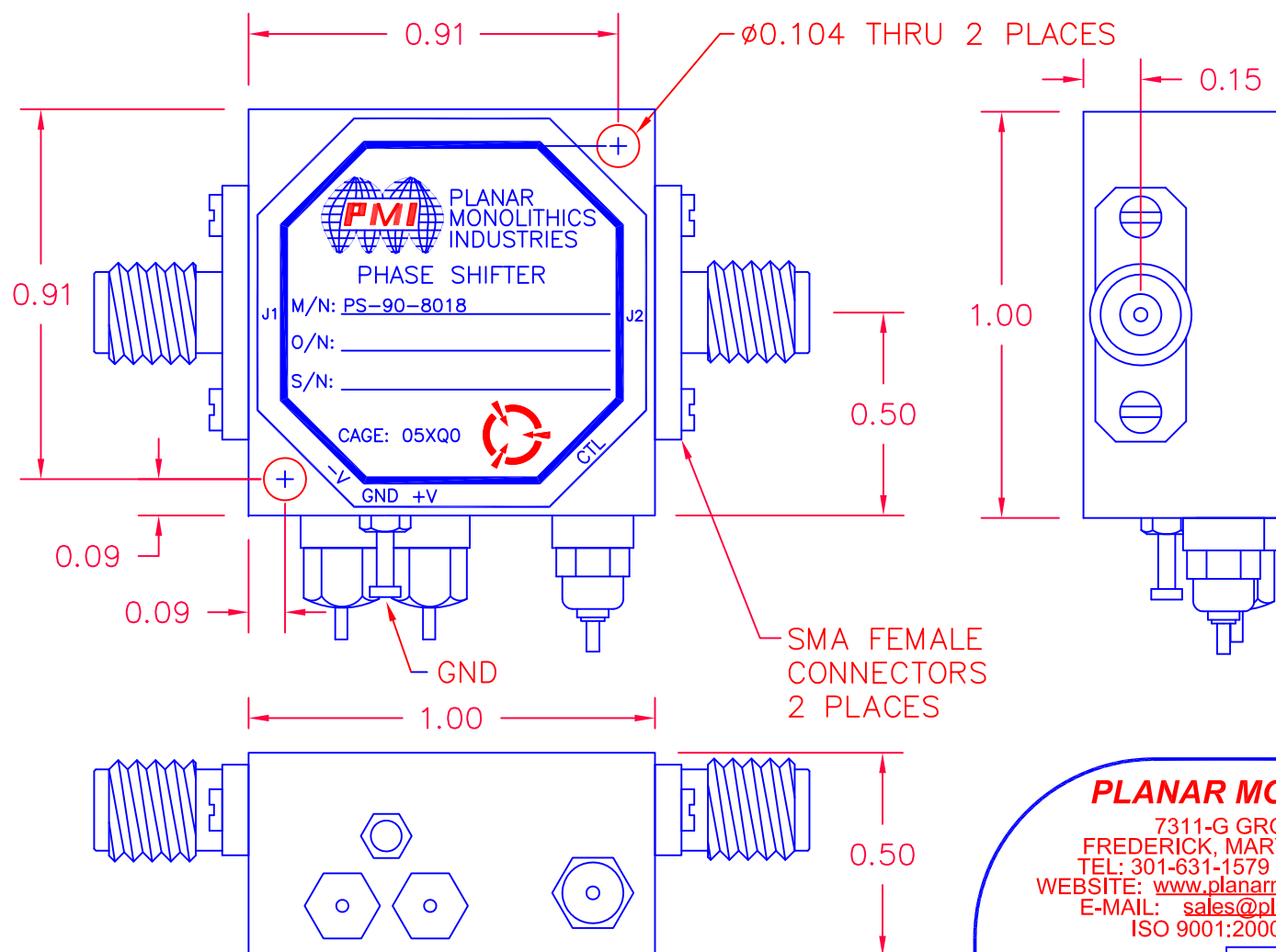
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MECHANICAL OUTLINE



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TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

APPROVALS		DATE		TITLE	
DRAWN		DATE		MECHANICAL OUTLINE	
CHECKED		DATE		PS-90-8018	
ISSUED		DATE		8 - 18 GHz BI-PHASE MODULATOR/PHASE SHIFTER	
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				2 OF 2	