

## DESCRIPTION

THE PMI MODEL PS-90-2550E 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 1.9 TO 5.6 GHz.

## SPECIFICATIONS

- FREQUENCY RANGE: ..... 1.9 TO 5.6 GHz
- INSERTION LOSS: ..... 2.5 dB TYPICAL, 3.0 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 us PULSE WIDTH SURVIVAL
- 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 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

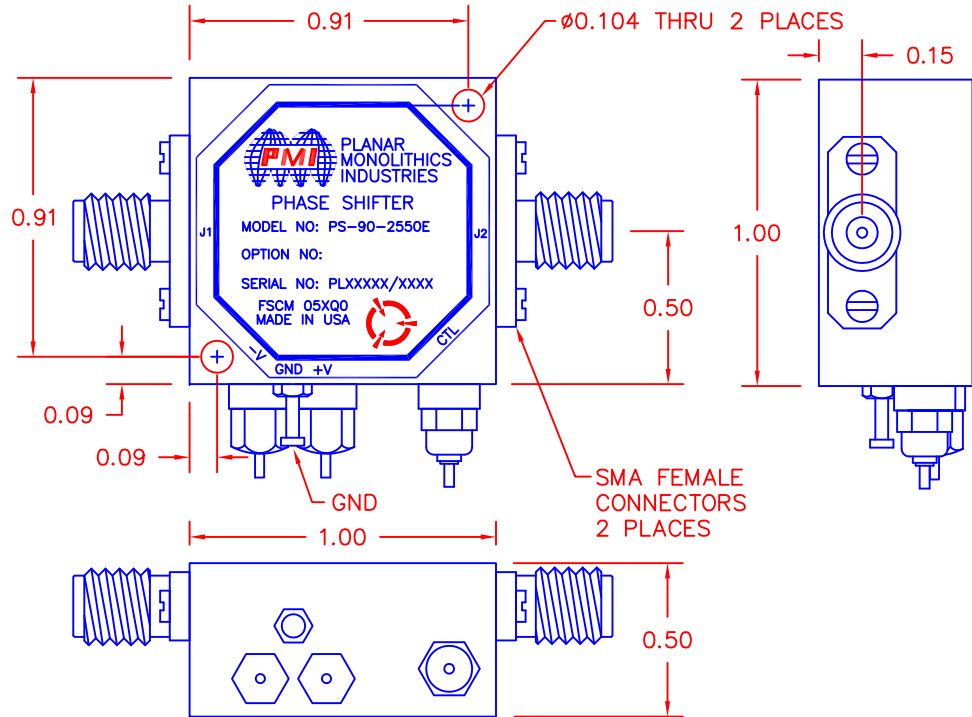
## ENVIRONMENTAL RATINGS

- **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 ±0.020  
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	8/7/15	



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](http://www.planarmonolithicsindustries.com)  
E-MAIL: [sales@planarmonolithics.com](mailto:sales@planarmonolithics.com)  
ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>EMF</i>		8/7/15	PRODUCT FEATURE PS-90-2550E 1.9 - 5.6 GHz BI-PHASE MODULATOR/PHASE SHIFTER		
CHECKED			SIZE A	FSCM NO. 05XQ0	REV. -
ISSUED			DWG NO. PRELIMINARY		
SCALE N:S			SHEET 1 OF 1		