

DESCRIPTION

PMI MODEL: PS-90-810 IS A 0° TO 180° BI-PHASE SHIFTER/MODULATOR, TTL COMPATIBLE WITH LOW INSERTION LOSS, LOW VSWR, HIGH SPEED AND OPERATES IN THE 8 TO 10 GHz FREQUENCY RANGE.

KEY FEATURES

±90° OR 180° ± 10° PHASE SHIFT
8 TO 10 GHz
(OTHER FREQUENCIES FROM 2 TO 18 GHz AVAILABLE IN OCTAVE BANDS)
TTL COMPATIBLE (ECL AVAILABLE)
SINGLE BALANCED (DOUBLE BALANCE AVAILABLE)
MINIATURE SIZE

SPECIFICATIONS

- DIFFERENTIAL PHASE SHIFT: ----- ±90° OR 180° ± 10°
- FREQUENCY: ----- 8 TO 10 GHz
- INSERTION LOSS: ----- 2.5 dB TYPICAL
3.0 dB MAXIMUM
- VSWR: ----- 2.0:1 TYPICAL
2.5:1 MAXIMUM
- SWITCHING SPEED: ----- RISE TIME: 20 ns TYPICAL, 25 ns MAXIMUM
FALL TIME: 10 ns TYPICAL, 15 ns MAXIMUM
DELAY ON*: 60 ns TYPICAL, 75 ns MAXIMUM
DELAY OFF*: 45 ns TYPICAL, 75 ns MAXIMUM
(25 ns HIGHSPEED UNITS AVAILABLE)
- RF INPUT POWER OPERATING: ----- +15 dBm MAXIMUM
- RF INPUT POWER SURVIVAL: ----- 0.5 W
- CARRIER SUPPRESSION: ----- 20 dB TYPICAL
15 dB MINIMUM
- CONTROL LOGIC: ----- TTL (ECL AVAILABLE)
- POWER SUPPLY: ----- +5 VDC @ 75 mA MAXIMUM
-5 VDC @ 20 mA MAXIMUM
- SIZE: ----- 2.00" X 0.79" X 0.54"
- WEIGHT: ----- 1.50 oz MAXIMUM

*50% LOGIC TO WITHIN 10° OF FINAL PHASE SHIFT

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -65 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- MIL-STD-202, METHOD 103B COND. B
- SHOCK: ----- MIL-STD-202, METHOD 213B COND. B
- VIBRATION: ----- MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: ----- MIL-STD-202, METHOD 107D COND. A

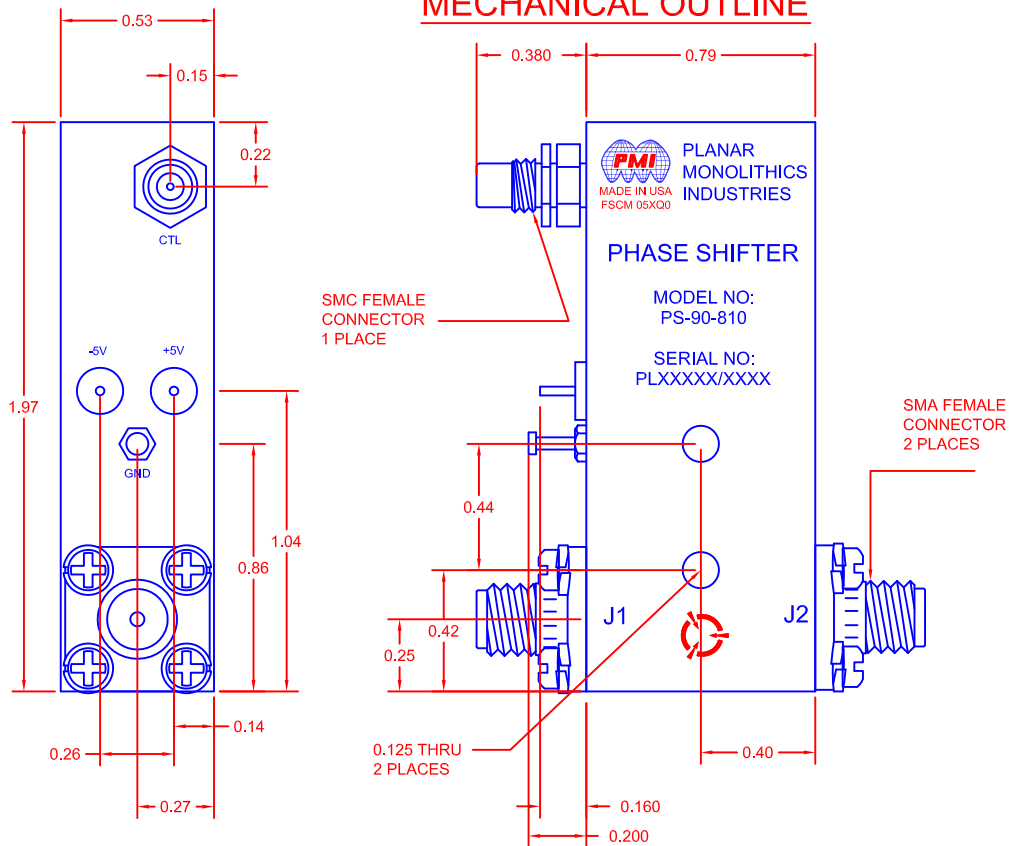
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/03/15	



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ISO 9001 CERTIFIED



		TITLE PRODUCT FEATURE PS-90-810			
APPROVALS	DATE				
DRAWN <i>M. Berry</i>	<i>11/03/15</i>				
CHECKED					
ISSUED					
		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
		SCALE N:S	SHEET 1 OF 1		