

DESCRIPTION:

PMI MODEL NUMBER PS-90-1020 OPTION 03, 06 & 07 IS A 0° TO 180° BI-PHASE MODULATOR/SHIFTER OPERATING OVER A FREQUENCY RANGE OF 1-2 GHz WITH SMA FEMALE CTRL AND ±12 VOLT POWER SUPPLY.

SPECIFICATIONS:

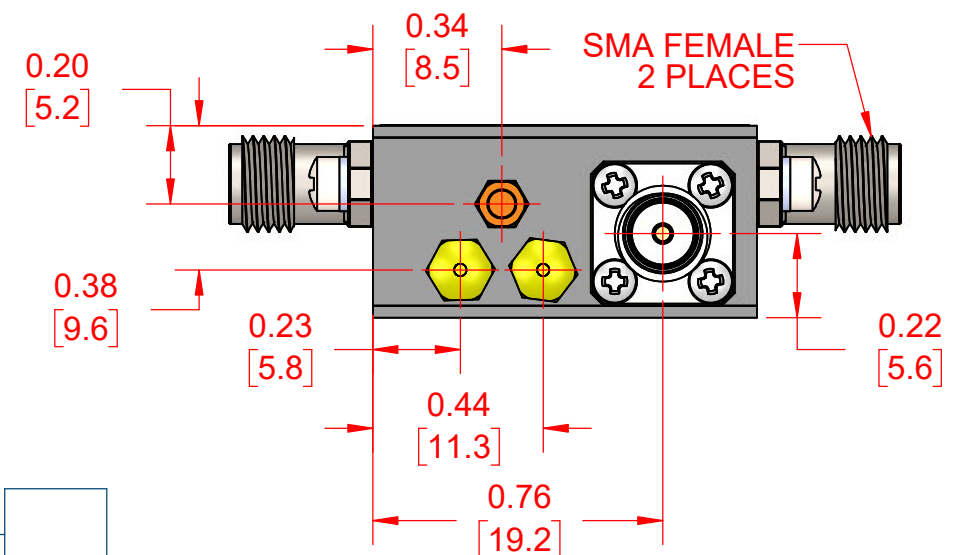
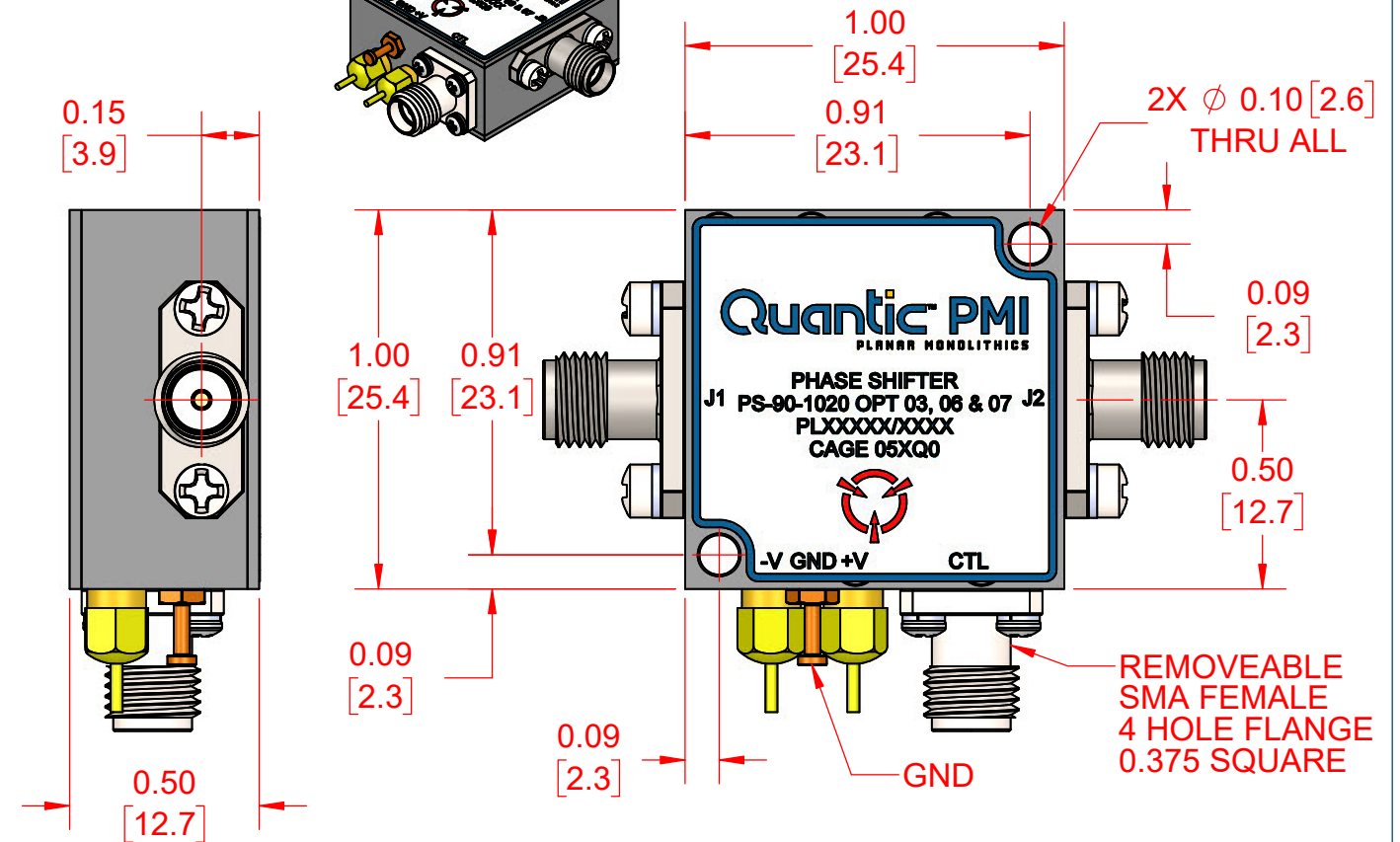
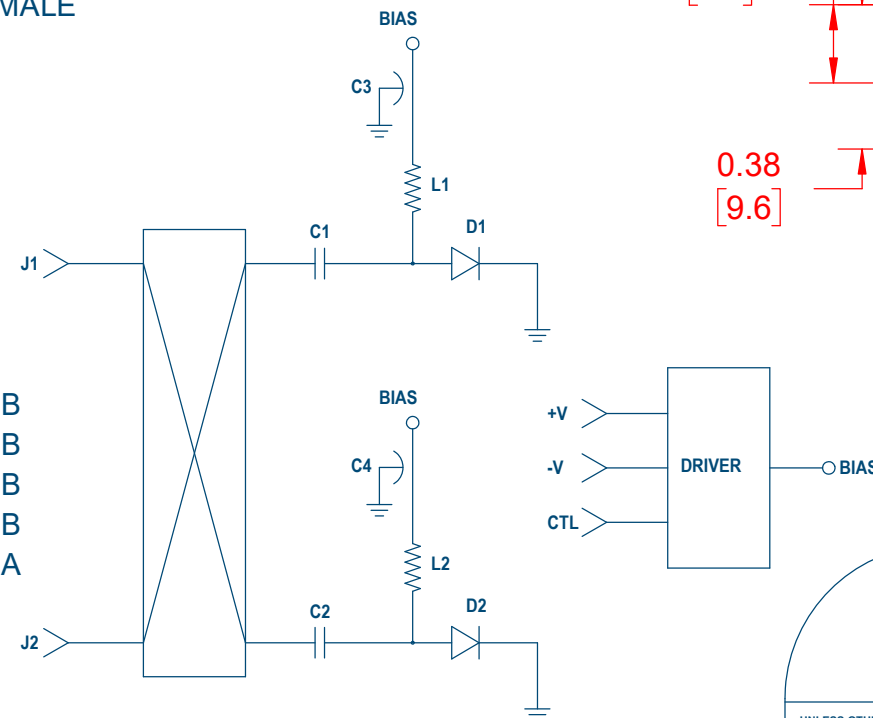
- FREQUENCY RANGE:..... 1 TO 2 GHz
- INSERTION LOSS:..... 3.0 dB TYP, 6.0 dB MAX
- AMPLITUDE BALANCE:..... 1 dB TYP, 1.3 dB MAX
- PHASE BALANCE:..... 5° MAX
- VSWR:..... 2.0 : 1 MAX
- CARRIER SUPPRESSION:..... 20 dBc MIN
- SWITCHING SPEED:..... 1 μ s MAX
- RF INPUT POWER:..... +20 dBm OPERATING CW
- RF INPUT POWER (SURVIVAL):..... 0.5W @ 1 μ s PULSE WIDTH
1% DUTY CYCLE
- CONTROL:..... TTL
- DC POWER (NO LOAD):..... +12V @ 75 mA MAX
-12V @ 20 mA MAX
- SIZE:..... 1.00 " x 1.00" x 0.5"
- WEIGHT:..... $\leq$ 2.0 OZ
- FINISH:..... PAINTED GRAY

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 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-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 TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/14/2011	
	A2	ECN # 25-0090	4/1/2025	

PMI CONFIDENTIAL AND PROPRIETARY

			 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 662-5019; FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED			
	APPROVALS	DATE	TITLE OUTLINE PS-90-1020			
	DRAWN ZIR	11/14/2011				
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01	REDRAWN				
	ISSUED		SIZE B	FSCM NO. 05XQ0	DWG NO. 27008349	REV. A2
			SCALE 2:1			SHEET 1 OF 1