

DESCRIPTION

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

SPECIFICATIONS

- FREQUENCY RANGE: 1 GHz 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
- CARRIER SUPPRESSION: 20 dBc
- SWITCHING SPEED: 1 μ s
- RF INPUT POWER: +20 dBm OPERATING
- RF INPUT POWER (SURVIVAL): 0.5 WATT,
1 μ s PULSE WIDTH
- CONTROL: TTL
- DC POWER (NO LOAD)
 - +V: +12V @ 75mA MAX
 - V: -12V @ 20mA MAX
- SIZE: 1.00" (L) X 1.00" (W) X 0.50" (H)
- WEIGHT: ≤ 2.0 OZ
- FINISH: PAINTED GRAY

OPTIONS:

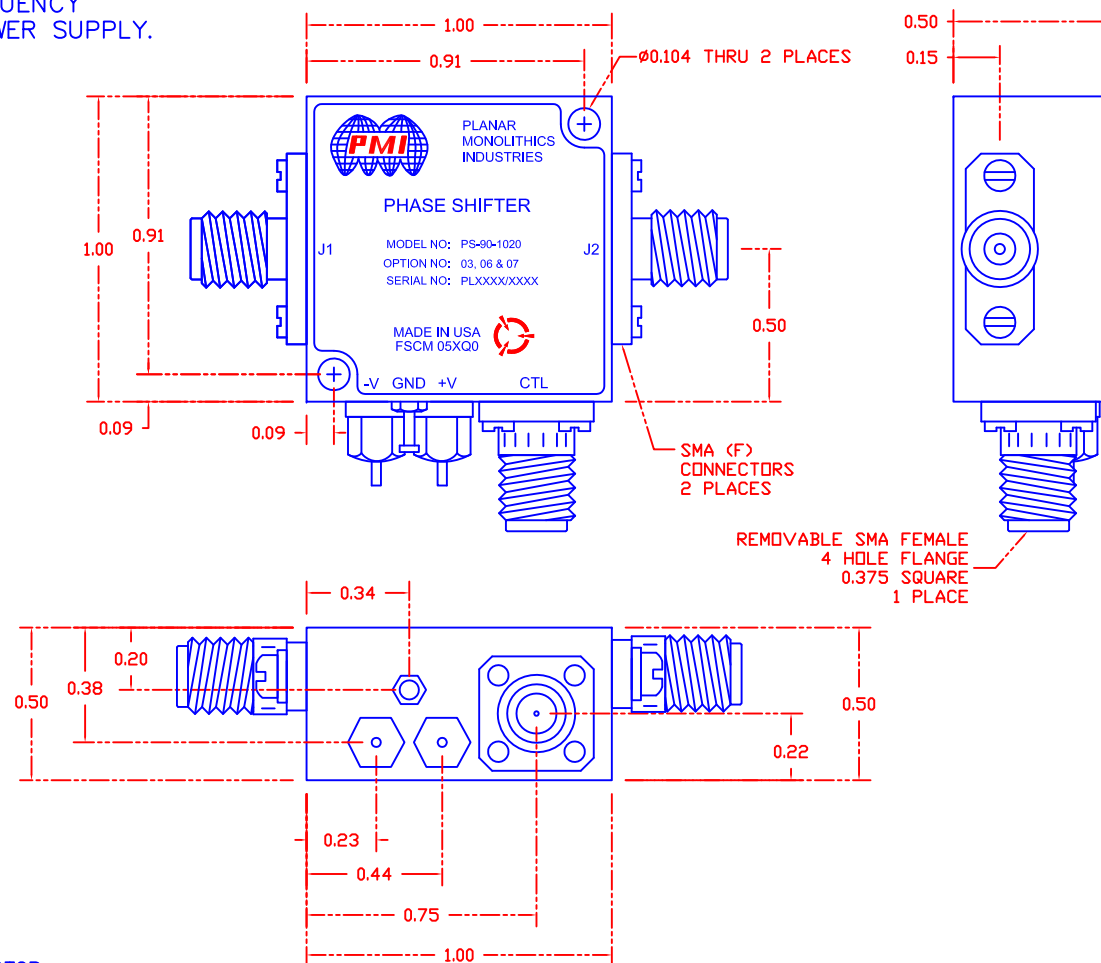
- **HS** HIGH SPEED AND HIGH MODULATION RATES
- **01** SMC MALE CONTROL CONNECTOR
- **02** SMB MALE CONTROL CONNECTOR
- **03** SMA FEMALE CONTROL CONNECTOR
- **04** TWO SMA MALE RF CONNECTORS
- **05** ONE SMA MALE AND ONE SMA FEMALE RF CONNECTOR
- **06** +12 VDC POWER SUPPLY
- **07** -12 VDC POWER SUPPLY
- **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-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: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	11/14/11	



CONFIDENTIAL & PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE		PRODUCT FEATURE	
DRAWN		11/14/11		PS-90-1020		OPTION 03, 06 & 07	
CHECKED				SIZE		FSCM NO.	
ISSUED				A		05XQ0	
				DWG NO.		27008349	
				SCALE		N: S	
				SHEET		1 OF 1	

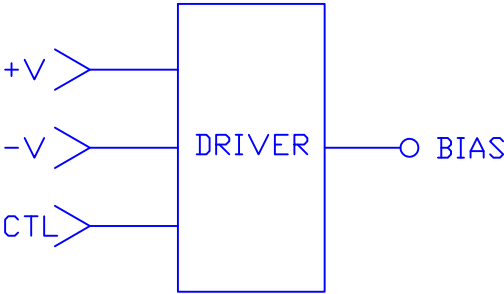
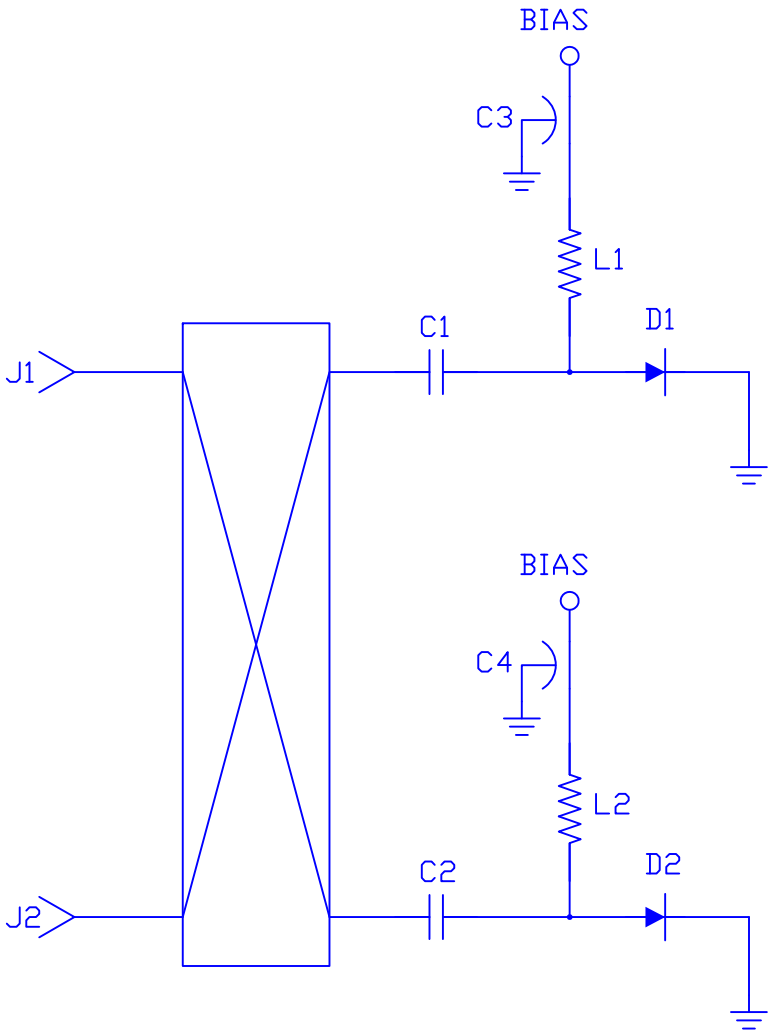
ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

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FUNCTIONAL SCHEMATIC



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ALL DIMENSIONS ARE IN INCHES
TOLERANCES:
X.XX ±0.010
X.XXX ±0.005

APPROVALS		DATE	TITLE			SIZE	FSCM NO.	DWG NO.	REV.
DRAWN		JRR	PRODUCT FEATURE			A	05XQ0	27008349	A
CHECKED			PS-90-1020						
ISSUED			OPTION 03, 06 & 07						
						SCALE	N: S	SHEET	2 OF 2