

## DESCRIPTION

PMI MODEL PMSN-3DR-05-STANDARD-LV IS A SINGLE POLE THREE THROW REFLECTIVE SWITCH MODULE, WITH VERY LOW INSERTION LOSS, HIGH ISOLATION, HIGH POWER (1 WATT) AND WITH HIGH SPEED (25 ns) INTEGRAL CMOS DRIVER, DESIGNED FOR 1 GHz TO 18 GHz OPERATION.

## SPECIFICATIONS

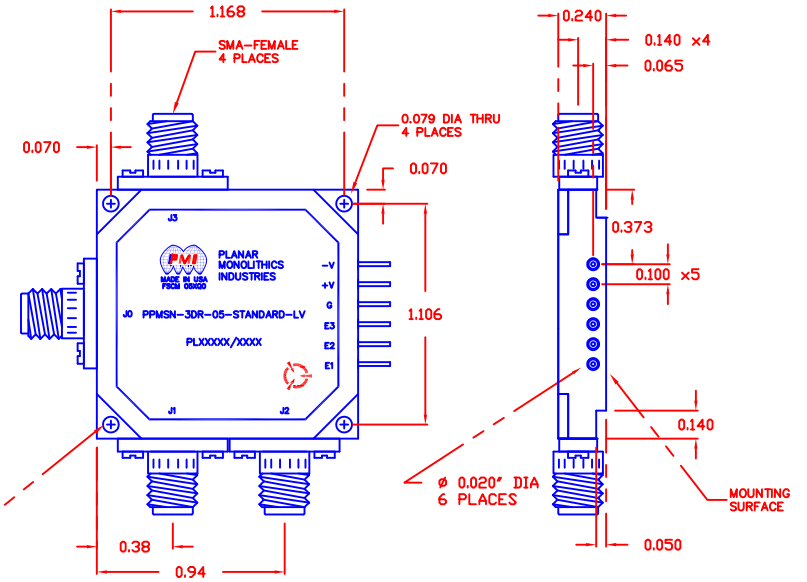
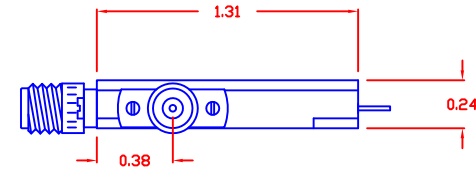
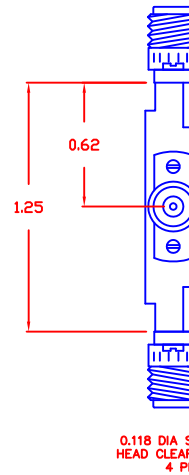
- FREQUENCY: ..... 1.0-18.0 GHz
- INSERTION LOSS: ..... 3.5 dB
- VIDEO TRANSIENTS ..... 100 mV P-P
- ISOLATION: ..... 60dB @ 1.0-4.0, 4.0-8.0 GHz (MINIMUM)  
60dB @ 8.0-12.4 GHz (MINIMUM)  
50dB @ 12.4-18.0 GHz (MINIMUM)
- VSWR: ..... 1.75:1 @ 1.0-4.0 GHz (MAXIMUM)  
1.75:1 @ 4.0-8.0, 6.0-12.4 GHz (MAXIMUM)  
2.0:1 @ 12.4-18.0 GHz (MAXIMUM)
- POWER HANDLING: ..... REFLECTIVE 1 WATT CW OR PEAK (WITHOUT PERFORMANCE DEGRAGATION)
- SWITCHING SPEED: ..... RISE TIME: 10nsec (MAXIMUM)  
FALL TIME: 10nsec (MAXIMUM)  
ON TIME: 25nsec (MAXIMUM)  
OFF TIME: 20nsec (MAXIMUM)
- SURVIVAL POWER: ..... 1 WATT AVG, 75 WATTS PEAK(1 sec max. pulse width)
- POWER SUPPLY: ..... +5V ±5% @ 75 mA  
-12V @ 30mA Max
- CONTROL INPUT  
IMPEDANCE: ..... 3.3/5.0V CMOS LOGIC
- CONTROL LOGIC: ..... "0"=ON @ 0V TO 1.2V  
"1"=OFF @ 3.3V TO 5.5V
- CONNECTOR: ..... SMA FEMALE
- SIZE ..... 1.31 X 1.25 X 0.24
- WEIGHT ..... 1.50 OUNCE TYPICAL
- FINISH: ..... PAINTED BLUE

## ENVIRONMENTAL RATINGS

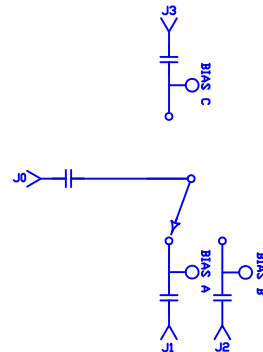
- TEMPERATURE: ..... -65°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: ..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK: ..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: ..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: ..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

THRUTH TABLE			
	J1	J2	J3
E1	0	1	1
E2	1	0	1
E3	1	1	0



## BLOCK DIAGRAM



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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/7/23	

## MECHANICAL OUTLINE

PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>AF</i>		1/7/23	PRODUCT FEATURE PMSN-3DR-05-STANDARD-LV		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27031381
ISSUED			SCALE N: S		REV. A2
					SHEET 1 OF 1