

DESCRIPTION

PMI MODEL PMSN-3DR-05-STANDARD, OPTION 118, NI1, B06HPR1W, B05HS25NS 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

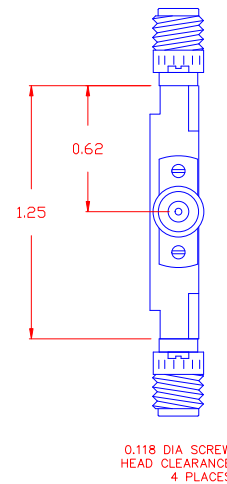
- FREQUENCY: 1.0–18.0 GHz
- INSERTION LOSS: 1.2dB @ 1.0–4.0 GHz (MAXIMUM)
1.5dB @ 4.0–8.0 GHz (MAXIMUM)
2.0dB @ 8.0–12.4 GHz (MAXIMUM)
2.6dB @ 12.4–18 GHz (MAXIMUM)
- ISOLATION: 60dB @ 1.0–4.0, 4.0–8.0 GHz (MINIMUM)
60dB @ 8.0–12.4 GHz (MINIMUM)
50dB @ 12.4–18.0 GHz (MINIMUM)
- VSWR: 1.75:1 @ 1.0–4.0 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(1μs 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

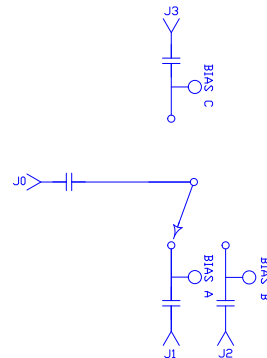
- TEMPERATURE: -65°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND.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



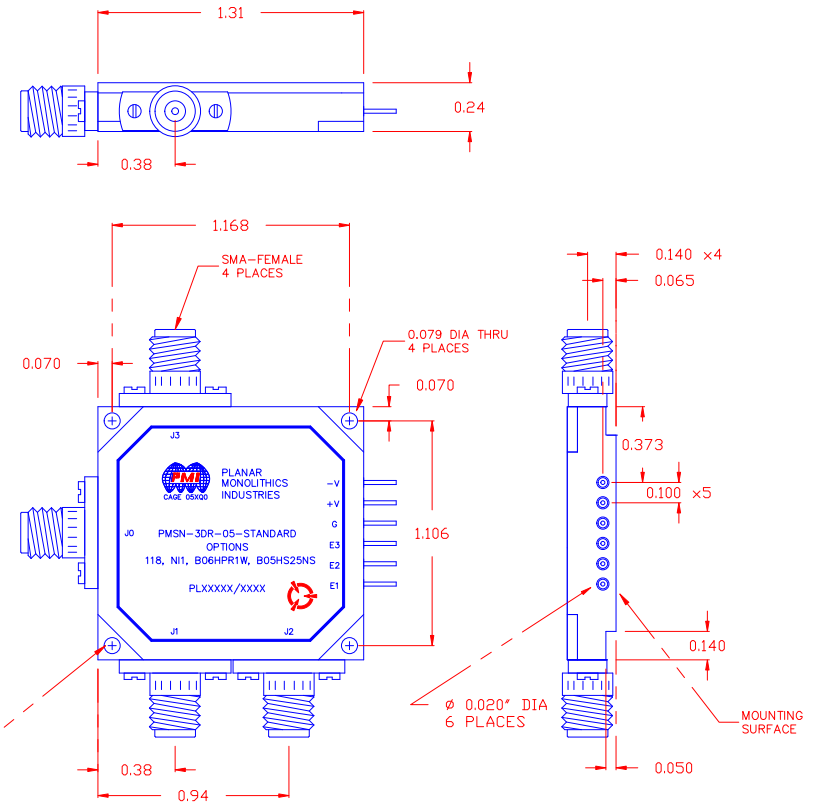
BLOCK DIAGRAM



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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	12/19/16	
	A2	ECN # 17-0086	03/06/17	
	B1	ECN # 24-0292	10/11/2024	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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APPROVALS		DATE	TITLE		
DRAWN <i>JPU</i>		12/19/16	PRODUCT FEATURE PMSN-3DR-05-STANDARD OPTION 118, NI1, B06HPR1W, B05HS25NS		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. 27031381
ISSUED					REV. B1
SCALE N: S				SHEET 1 OF 1	