

## DESCRIPTION

PMI MODEL P2T-2G18G-10-R-5V-SFF-HIP10W-NSI IS A REFLECTIVE, SINGLE POLE, TWO THROW PIN DIODE SWITCH THAT OPERATES OVER THE 2.0 GHz TO 18.0 GHz FREQUENCY RANGE. THIS MODEL IS CAPABLE OF HANDLING AN INPUT POWER LEVEL OF 10 WATTS CW WHILE PROVIDING SWITCHING SPEEDS OF 100 ns. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

## TYPICAL SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 2.0 TO 18.0 GHz
- INSERTION LOSS: \_\_\_\_\_ 2 - 6 GHz - 1.5 dB MAX  
6 - 12 GHz - 2.0 dB MAX  
12 - 18 GHz - 2.7 dB MAX
- ISOLATION: \_\_\_\_\_ 2 - 6 GHz - 40 dB TYP / 35 dB MIN  
6 - 12 GHz - 35 dB TYP / 28 dB MIN  
12 - 18 GHz - 30 dB TYP / 25 dB MIN
- VSWR IN / OUT: \_\_\_\_\_ 1.6:1 MAX
- INSERTION LOSS FLATNESS / 1 GHz: \_\_\_\_\_ +/- 0.5 dB MAX
- OPERATING INPUT POWER: \_\_\_\_\_ 10 WATTS CW MAX  
(NOT TO BE SWITCHED ANY HIGHER THAN 50kHz [PRI])
- 1dB COMPRESSION: \_\_\_\_\_ +40 dBm TYP
- 0.1dB COMPRESSION: \_\_\_\_\_ +30 dBm MIN
- IIP3: \_\_\_\_\_ 55 dBm MIN
- RF SWITCHING SPEED: \_\_\_\_\_ 100 ns MAX
- IMPEDANCE: \_\_\_\_\_ 50 Ω
- DC VOLTAGE: \_\_\_\_\_ +5 TO +12 VDC @ 50 mA MAX
- CONTROL SIGNAL: \_\_\_\_\_ TTL LOGIC  
SEE LOGIC TABLE
- CONNECTORS: \_\_\_\_\_ SMA(F) - REMOVABLE
- CONTROL CONNECTORS: \_\_\_\_\_ SOLDER PINS
- FINISH: \_\_\_\_\_ PAINTED BLUE  
BOTTOM SIDE - UNPAINTED

LOGIC TABLE

CTL	J1 - J2	J1 - J3
0	ON	OFF
1	OFF	ON

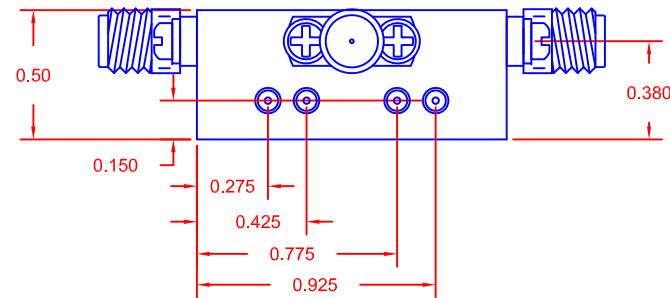
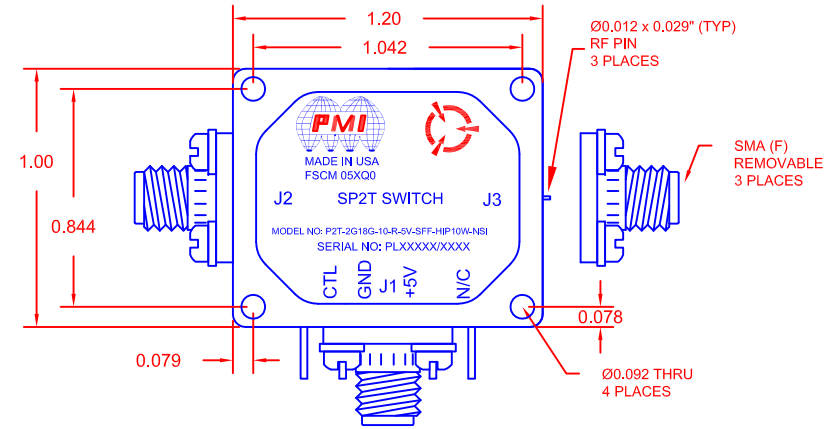
## ENVIRONMENTAL RATINGS

- TEMPERATURE: \_\_\_\_\_ 0°C TO +60°C (OPERATING)  
-55°C TO +125°C (STORAGE)
- 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 107

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

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/22/20	



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			
DRAWN <i>JPH</i>		1/22/20	PRODUCT FEATURE			
CHECKED			P2T-2G18G-10-R-5V-SFF-HIP10W-NSI			
ISSUED			SIZE	FSCM NO.	DWG NO.	REV.
			A	05XQ0	PRELIMINARY	-
			SCALE	N:S	SHEET	1 OF 1