

## DESCRIPTION

PMI MODEL P4T-500M18G-60-T-SFF-JW-MD15 IS AN ABSORPTIVE, SINGLE POLE, FOUR THROW PIN DIODE SWITCH THAT OPERATES OVER THE 0.5 GHz TO 18 GHz FREQUENCY RANGE. THIS MODEL INCORPORATES A TTL COMPATIBLE DRIVER FOR EASY SYSTEM INTEGRATION.

## SPECIFICATIONS

- FREQUENCY RANGE: \_\_\_\_\_ 0.5 TO 18 GHz
- ISOLATION: \_\_\_\_\_ 60 dB MIN
- INSERTION LOSS: \_\_\_\_\_ 3.75 dB MAX
- VSWR IN / OUT: \_\_\_\_\_ 2.0: 1 MAX
- INPUT POWER: \_\_\_\_\_ +20 dBm CW MAX
- RF SWITCHING SPEED: \_\_\_\_\_ RISE: 25ns MAX  
FALL: 25ns MAX  
DELAY ON: 100ns MAX  
DELAY OFF: 100ns MAX
- DC VOLTAGE: \_\_\_\_\_ +5 V @ 200 mA MAX  
-5 V @ 100 mA MAX
- CONTROL SIGNAL: \_\_\_\_\_ TTL LOGIC  
SEE LOGIC TABLE
- CONNECTORS IN/OUT: \_\_\_\_\_ SMA FEMALE CONNECTORS
- CONTROL CONNECTORS: \_\_\_\_\_ SUB-D CONNECTOR
- FINISH: \_\_\_\_\_ GOLD PLATED
- SIZE: \_\_\_\_\_ 2.72" X 1.5" X 0.4"

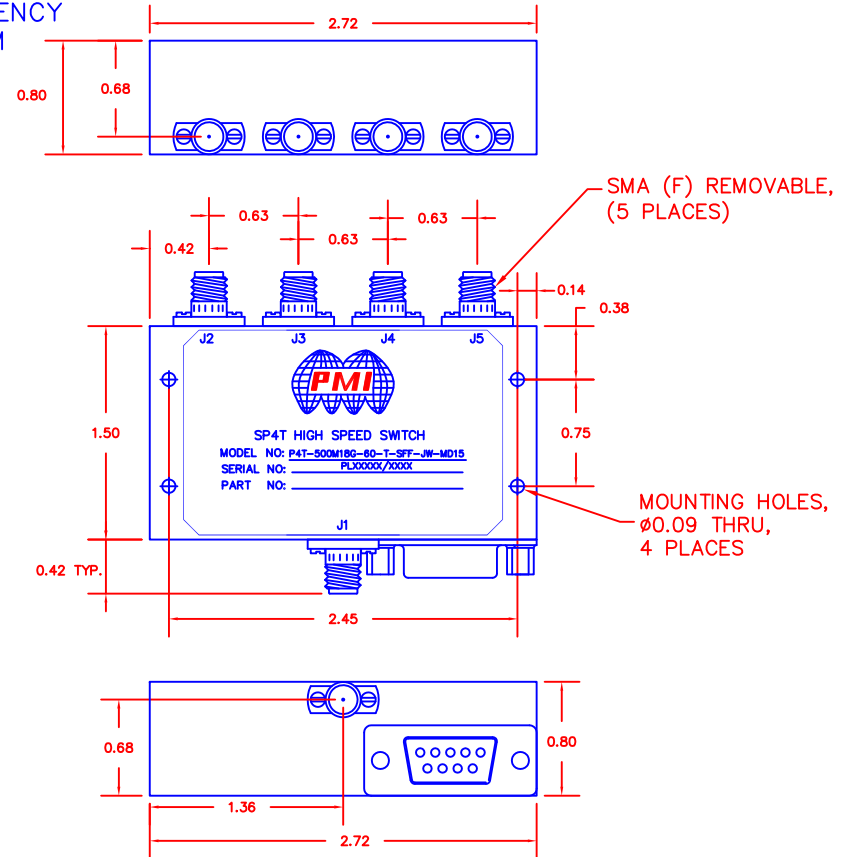
## ENVIRONMENTAL RATINGS

- TEMPERATURE: \_\_\_\_\_ -54°C TO +95°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
- SALT FOG: \_\_\_\_\_ MIL-STD-202F, METHOD 107D COND. A
- FUNGUS: \_\_\_\_\_ MIL-STD-810C, METHOD 508.2
- TEMPERATURE CYCLE: \_\_\_\_\_ MIL-STD-202F, 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	11/19/19	



LOGIC TABLE		
2 BIT DECODER		
E1	E2	FUNCTION
0	0	J1-J2 "Low Loss"
0	1	J1-J3 "Low Loss"
1	0	J1-J4 "Low Loss"
1	1	J1-J5 "Low Loss"

PINS	
1	+V
2	GND
3	-V
4	GND
5	GND
6	GND
7	GND
8	E1
9	E2

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	NJA	12/12/11	PRODUCT FEATURE P4T-500M18G-60-T-SFF-JW-MD15		
REDRAWN	CW	11/19/19	SIZE	FSCM NO.	DWG NO.
ISSUED			A	05XQ0	PRELIMINARY
			SCALE	N: S	SHEET 1 OF 1