

## DESCRIPTION

PMI MODEL NUMBER: P4T-500M18G-80-T-SFF-IND-2 IS A 500MHz TO 18GHz, SINGLE POLE, FOUR THROW, ABSORPTIVE SWITCH. THIS SWITCH OFFERS 70dB OF PORT TO PORT ISOLATION, AND A MAXIMUM INSERTION LOSS OF 3.75 dB. IT HAS A SWITCHING SPEED OF 25ns WITH INDIVIDUAL TTL CONTROL. THE OPERATING POWER IS +20dBm CW AND THE VSWR IS 2:1 MAXIMUM.

## SPECIFICATIONS

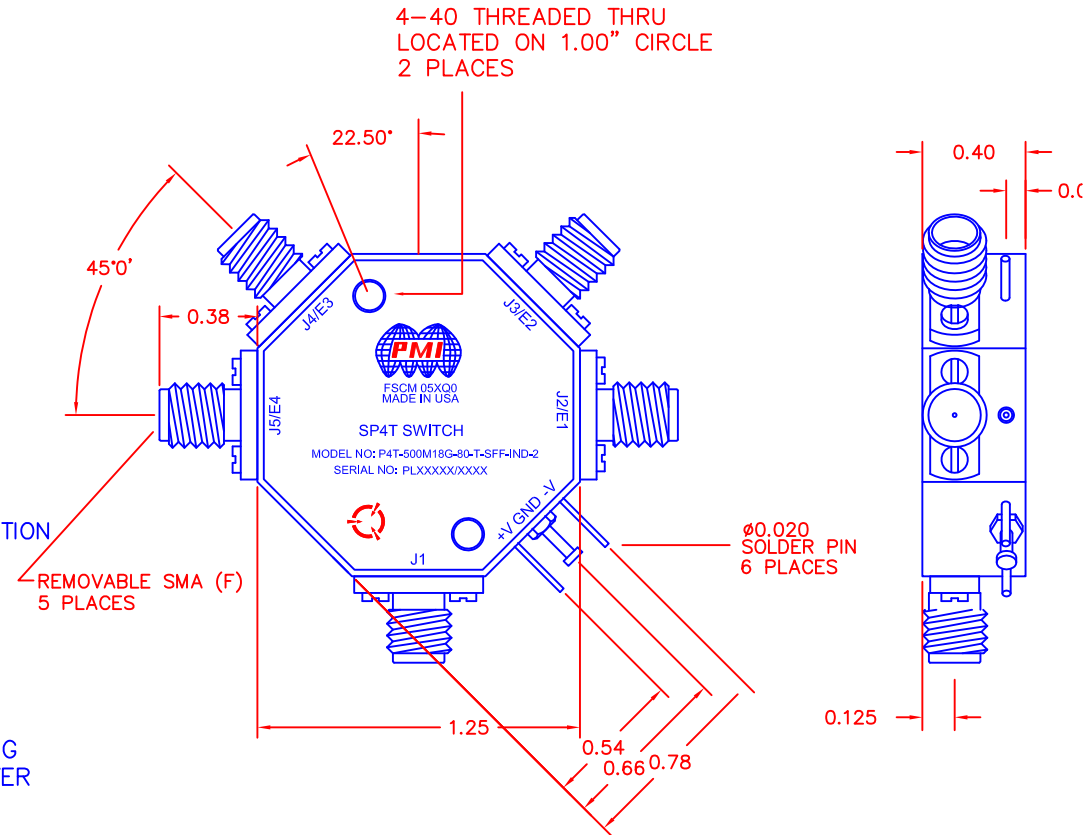
- FREQUENCY RANGE: \_\_\_\_\_ 500 MHz TO 18 GHz
- INSERTION LOSS: \_\_\_\_\_ 3.75 dB MAX
- ISOLATION: \_\_\_\_\_ 70 dB MIN
- VSWR: \_\_\_\_\_ 2.0: 1 MAX
- SWITCHING SPEED: \_\_\_\_\_ 50% TTL TO 10%/90% RF  
25 ns TYP
- INPUT POWER: \_\_\_\_\_ +20 dBm CW
- SURVIVAL POWER: \_\_\_\_\_ +23 dBm CW
- CONTROL SIGNAL: \_\_\_\_\_ INDIVIDUAL TTL CONTROL  
"0" = LOW LOSS & "1" = ISOLATION
- POWER SUPPLY: \_\_\_\_\_ +5 V @ 200 mA MAX  
-5 V @ 100 mA MAX
- RF CONNECTORS: \_\_\_\_\_ SMA FEMALE
- CONTROL AND POWER: \_\_\_\_\_ FEEDTHRU -  $\varnothing 0.020$  TYP
- FINISH: \_\_\_\_\_ BLUE EPOXY POLIMIDE COATING  
IAW MIL-C-22750, TYPE I OVER  
EPOXY POLIMIDE PRIMER IAW  
MIL-P-23377,  
TYPE I, CLASS 1 OR3.

## ENVIRONMENTAL RATINGS

- TEMPERATURE: \_\_\_\_\_ -40°C TO +85°C (OPERATING)  
-55°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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/1/20	



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX  $\pm 0.020$   
X.XXX  $\pm 0.010$

APPROVALS		DATE	TITLE			
DRAWN	SPH	7/1/20	PRODUCT FEATURE P4T-500M18G-80-T-SFF-IND-2			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	PRELIMINARY	-
			SCALE	N: S	SHEET	1 OF 1