

## DESCRIPTION

PMI MODEL P8T-500M18-60-T-SFF-NSI IS A 500MHZ TO 18GHZ SINGLE POLE EIGHT THROW, ABSORPTIVE SWITCH MODULE WITH LOW LOSS, HIGH SPEED AND WITH INTEGRAL TTL DRIVER AND 3 BIT DECODER , DESIGNED FOR BROADBAND OPERATIONS

## SPECIFICATIONS:

- FREQUENCY: 500 MHz TO 18 GHz
- INSERTION LOSS: 0.5-6 GHz - 2.5dB MAX  
6-12 GHz - 3.5dB MAX  
12-18 GHz - 4.5dB MAX
- ISOLATION: 60dB MIN
- VSWR: ON IN/OUT: 2.0:1 MAX  
ABSORPTIVE OUT/OFF: 2.0:1 MAX
- INSERTION LOSS FLATNESS / 1GHz: +/-0.5 dB MAX
- RF INPUT POWER: +20 dBm MAX
- SWITCHING SPEED: 100 ns MAX
- IIP3: 40 dBm TYP.
- IMPEDANCE: 50 OHMS
- CONTROL: 3 BIT TTL LOGIC (SEE TABLE)
- POWER SUPPLY: +5V @ 300 mA MAX.  
-5V @ 100mA MAX.
- SIZE: Ø1.500 CIRCLE POINT TO POINT X 0.400 (H)
- WEIGHT: 2.5 OUNCES TYPICAL
- FINISH: BLUE PAINT

### TRUTH TABLE

E1	E2	E3	PATH ON
0	0	0	J1
1	0	0	J2
0	1	0	J3
1	1	0	J4
0	0	1	J5
1	0	1	J6
0	1	1	J7
1	1	1	J8

## ENVIRONMENTAL RATINGS

- TEMPERATURE: 0 °C TO +60 °C (OPERATING)  
-65 °C TO +125 °C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- 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 107D COND. A

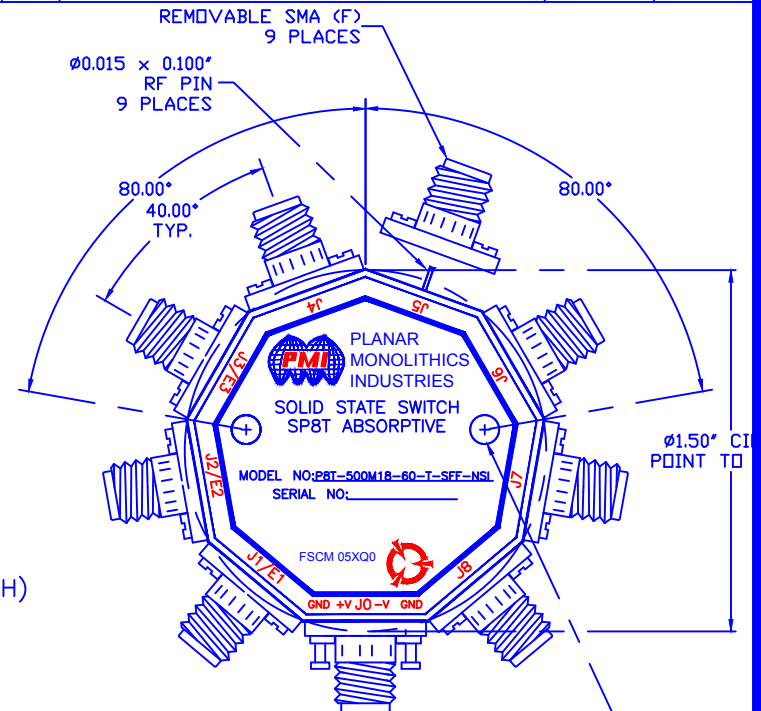
ALL DIMENSIONS  
ARE IN INCHES [mm]  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

**PMI CONFIDENTIAL AND PROPRIETARY**

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	7/10/2020	



Ø0.089 THRU W/4-40 THD  
0.250 DEEP ON MOUNTING SURFACE  
LOCATED ON Ø1.00\"/>

## PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

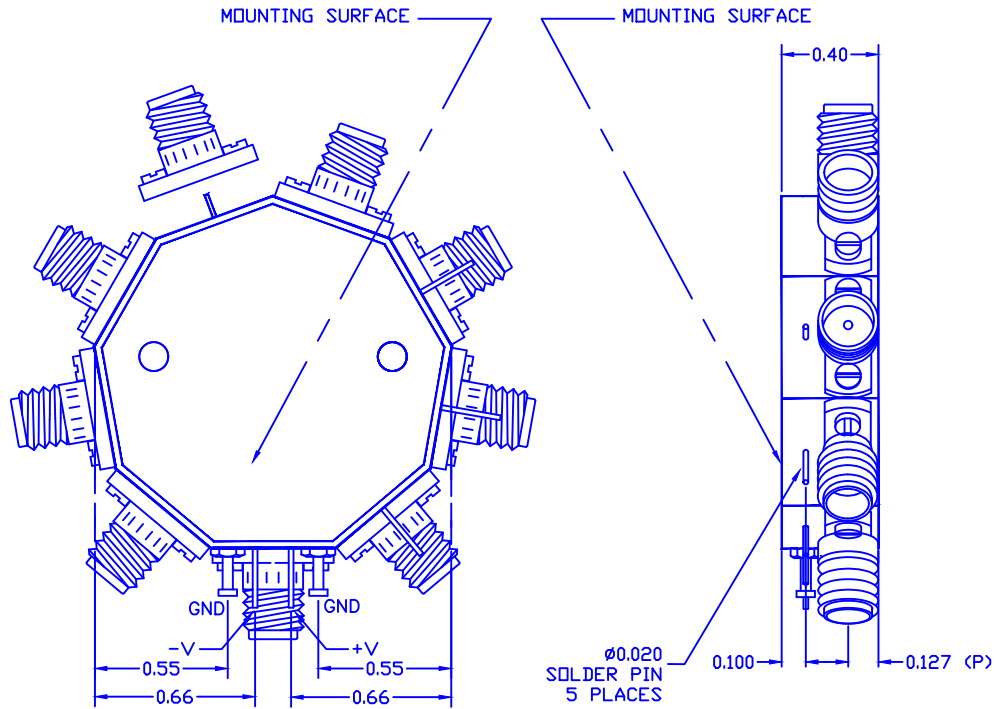
WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED

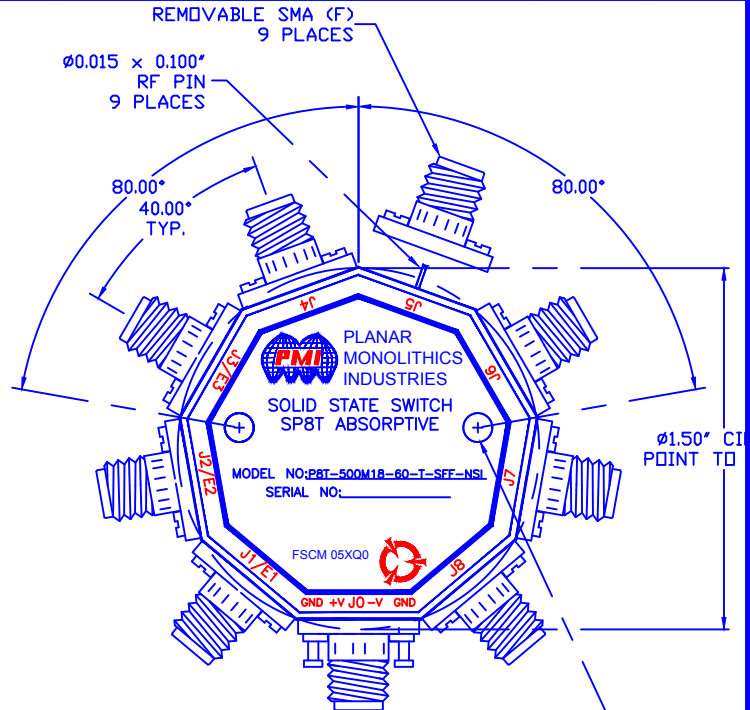


APPROVALS		DATE	TITLE		
DRAWN <i>JPH</i>		1/22/20	PRODUCT FEATURE P8T-500M18-60-T-SFF-NSI		
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27040320
ISSUED					REV. A1
			SCALE N:S	SHEET 1 OF 2	

# MECHANICAL OUTLINE



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	INITIAL RELEASE	7/10/2020	



0.089 THRU W/4-40 THD  
0.250 DEEP ON MOUNTING SURFACE  
LOCATED ON 1.00" CIRCLE  
2 PLACES

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ARE IN INCHES [mm]  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

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REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27040320
ISSUED					REV. A1
			SCALE N:S	SHEET 2 OF 2	