

## DESCRIPTION

PMI MODEL: P8T-0R518-70-T-SFF-MICROD15 IS A SINGLE POLE EIGHT THROW ABSORPTIVE SWITCH. THIS MODEL HAS THE FOLLOWING SPECIFICATIONS.

## SPECIFICATIONS

- FREQUENCY RANGE:..... 0.5 TO 18.0 GHz
- INSERTION LOSS:..... 4.5 dB MAX
- ISOLATION:..... 0.5 GHz TO 2 GHz: 60 dB MIN  
2 GHz TO 18 GHz: 70 dB MIN
- VSWR:..... IN / OUT: 2.0:1 Typ  
TERMINATED OUT: 2.0:1 Typ
- RISE/FALL TIME:..... 10 ns TYPICAL, 15 ns MAX
- DELAY ON/OFF:..... 75 ns TYPICAL, 100 ns MAX
- INPUT POWER:..... +30 dBm CW MAX
- CONTROL:..... TTL CONTROL – SEE LOGIC TABLE
- POWER SUPPLY:..... +5VDC @ 400 mA MAX  
-5VDC @ 100 mA MAX
- CONNECTORS IN/OUT:..... SMA (F) REMOVABLE
- CONTROL CONNECTORS:..... 15 PIN MICRO D CONNECTOR (M)
- SIZE:..... 4.00" (L) X 1.50" (W) X 0.40" (H)
- FINISH:..... PAINTED BLUE

J3 CONNECTOR	
PIN	FUNCTION
1	E1
2	E2
3	E3
4	N/C
5	N/C
6	VDC
7	GND
8	GND
9	-VDC

## ENVIRONMENTAL RATINGS

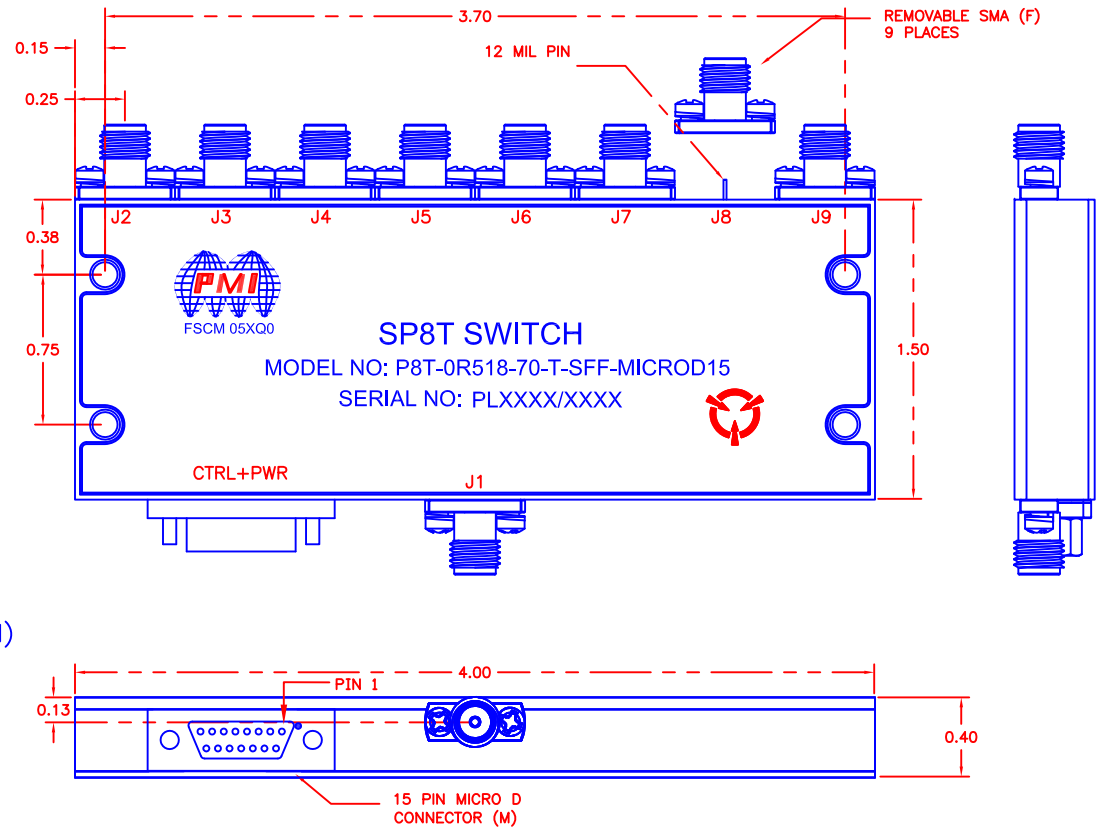
- TEMPERATURE:..... -55°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202G, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202G, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202G, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202G, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202G, METHOD 107G COND. A

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	4/4/22	

## MECHANICAL OUTLINE



LOGIC TABLE			
3 BIT DECODER			
E1	E2	E3	FUNCTION
0	0	0	J1-J2 "Low Loss"
0	0	1	J1-J3 "Low Loss"
0	1	0	J1-J4 "Low Loss"
0	1	1	J1-J5 "Low Loss"
1	0	0	J1-J6 "Low Loss"
1	0	1	J1-J7 "Low Loss"
1	1	0	J1-J8 "Low Loss"
1	1	1	J1-J9 "Low Loss"

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>JPH</i>		4/4/22	PRODUCT FEATURE		
REISSUED			P8T-0R518-70-T-SFF-MICROD15		
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	PRELIMINARY	-		
SCALE N:S		SHEET		1 OF 1	