

DESCRIPTION

PMI MODEL: P4T-7G18G-50-R-SFF IS A SINGLE POLE FOUR THROW REFLECTIVE SWITCH OPERATING OVER THE 7.0 TO 18.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS A MINIMUM OF 50 dB ISOLATION WHILE MAINTAINING A MAXIMUM INSERTION LOSS OF 3.7 dB AND A MAXIMUM VSWR OF 2.0:1. THIS COMPACT HOUSING IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 7.0 TO 18.0 GHz
- INSERTION LOSS: ----- 2.5 dB MAX @ 7.0 GHz TO 8.0 GHz
3.0 dB MAX @ 8.0 GHz TO 12.4 GHz
3.7 dB MAX @ 12.4 GHz TO 18.0 GHz
- ISOLATION: ----- 55 dB MIN @ 7.0 GHz TO 8.0 GHz
55 dB MIN @ 8.0 GHz TO 12.4 GHz
50 dB MIN @ 12.4 GHz TO 18.0 GHz
- VSWR (PORT ON): ----- 2.0:1 MAX
- POWER INPUT TO ANY PORT: ----- 0.7 W CW MAX (HOT SWITCHING)
- RF SAFE INPUT POWER: ----- 1.0 W CW MAX
10 W (1 μ s PULSE WIDTH, 0.01 DUTY CYCLE)
- SWITCHING SPEED: ----- ON TIME (50% TTL TO 90% RF): 80 ns MAX
OFF TIME (50% TTL TO 10% RF): 80 ns MAX
RISE TIME (10% RF TO 90% RF): 30 ns MAX
FALL TIME (10% RF TO 90% RF): 30 ns MAX
- CONTROL INPUT: ----- TTL LEVEL PER TABLE
- POWER SUPPLY: ----- +5 VDC \pm 5% @ 200 mA MAX
-12 TO -15 VDC \pm 5% @ 100 mA MAX
- SIZE: ----- 24.54 mm x 24.54 mm x 9.30 mm
0.996" x 0.996" x 0.366"
(EXCLUDING CONNECTORS)
- WEIGHT: ----- 45 g [1.59 oz] MAX
- CONNECTORS: ----- RF: SMA FEMALE
CONTROL/POWER: SOLDER TERMINALS
- FINISH: ----- PAINTED BLUE

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -25 °C TO +85 °C (OPERATING)
-30 °C TO +125 °C (NON-OPERATING)
- HUMIDITY: ----- MIL-E-5400T 3.2,24.4 (0~100% RH)
- VIBRATION: ----- 2 TO 16 Hz, 20 mm DOUBLE AMPLITUDE
16 TO 2000 Hz, 10G
- SHOCK: ----- MIL-E-5400T 3.24.6.1 (15G, 11 ms, 6 DIRECTIONS)
- ALTITUDE: ----- 0 TO 50,000 FEET
- SALT DAMAGE: ----- SHALL WITHSTAND SALT DAMAGE

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
	-	PRELIMINARY	12/05/17	
	1	UPDATES	1/2/18	

LOGIC TABLE - J1 COMMON PORT
(L = TTL LOW, H = TTL HIGH, X = TTL LOW OR HIGH)

PORT	TTL INPUT LEVEL				REMARKS
	L1	L2	L3	E	
J2	H	L	L	H	1
J3	L	H	L	H	2
J5	L	L	H	H	4
J6	H	L	H	H	5
ALL OFF	L	L	L	H	0
	H	H	L	H	3
	L	H	H	H	6
	H	H	H	H	7
	X	X	X	L	ENABLE OFF

PLANAR MONOLITHICS INDUSTRIES, INC.

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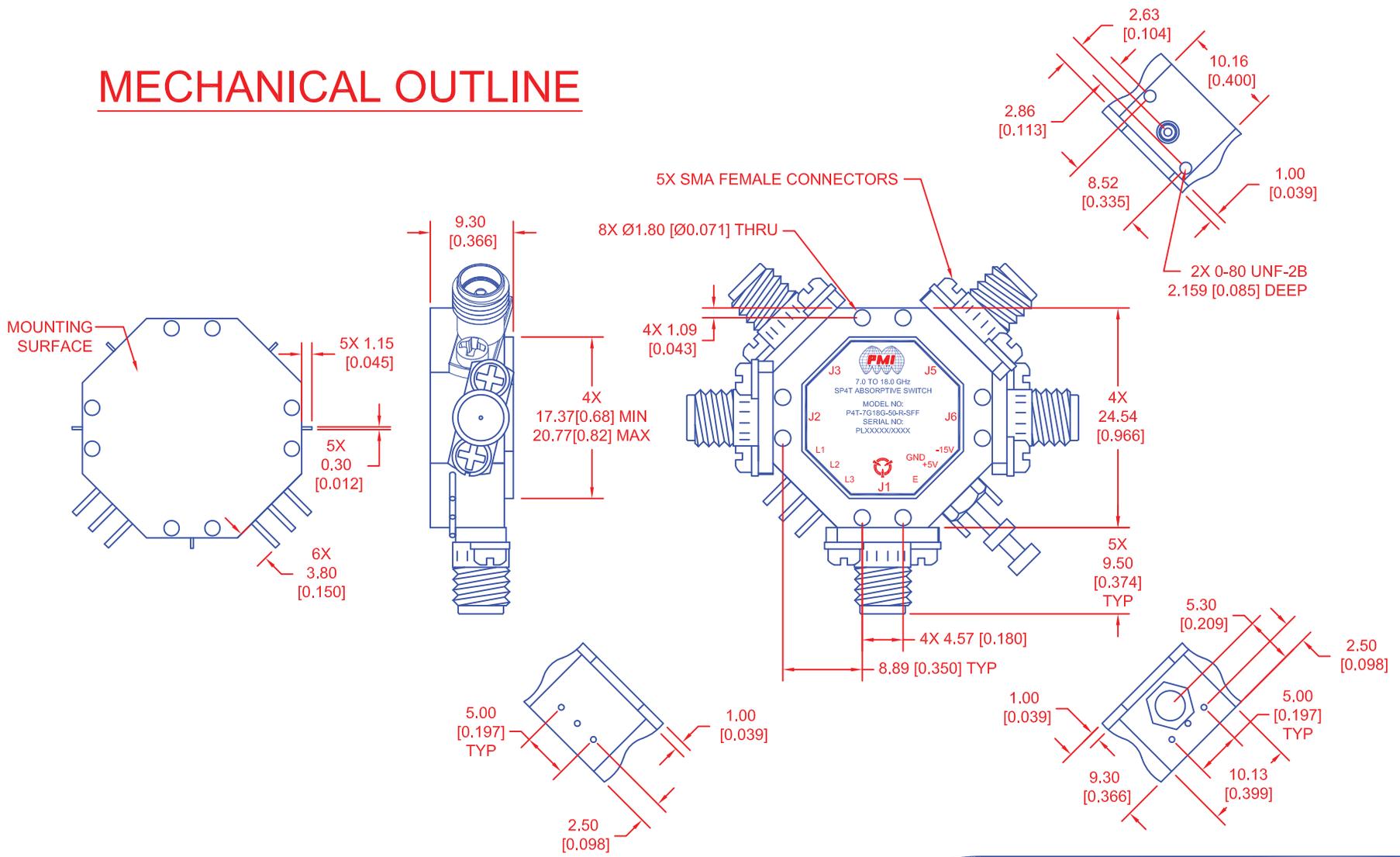
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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE			REV.
DRAWN <i>M. Berry</i>		12/05/17	PRODUCT FEATURE P4T-7G18G-50-R-SFF			1
CHECKED			7.0 to 18.0 GHz Single-Pole Four-Throw Reflective Switch			
ISSUED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	
			SCALE N:S	SHEET 1 OF 2		

MECHANICAL OUTLINE



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ALL DIMENSIONS ARE IN mm [INCH]

TOLERANCES:
 BELOW 4 mm [0.16"] ± 0.3 mm [0.010"]
 4 mm TO 16 mm [0.16" TO 0.63"] ± 0.5 mm [0.020"]
 ABOVE 16 mm [0.63"] ± 0.7 mm [0.030"]

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				A	05XQ0	PRELIMINARY	1
				SCALE	N:S	SHEET	2 OF 2