

PMI MODEL NO. P4T-0D418-75-T-SFF IS A SINGLE POLE, FOUR THROW, ABSORPTIVE SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 0.4 TO 18.0 GHz. IT HAS A MINIMUM ISOLATION OF 75 dB AND A MINIMUM RETURN LOSS OF -10 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

- FREQUENCY RANGE: ----- 0.4 TO 18.0 GHz
- ISOLATION: ----- 75 dB MIN
- INSERTION LOSS: ----- 2.5 dB @ 0.4 TO 10.0 GHz MAX
3.5 dB @ 10.0 TO 18.0 GHz MAX
- RETURN LOSS (ALL PORTS ON OR OFF STATE): ----- -10 dB MIN
- RISE/FALL TIME (10% TO 90% RF, 90% TO 10% RF): ----- 50 ns MAX
- ON/OFF TIME (50% TTL TO 90% RF, 50% TTL TO 10% RF): ----- 100 ns MAX
- OPERATING POWER: ----- 27 dBm COM PORT 23 dBm OTHER PORTS
PEAK 8 WATTS MAX @ 1 us (NOTE: WHEN INPUT +27 dBm, THE OPEN PORT CAN NOT BE FULL REFLECTED)
- POWER SUPPLY: ----- +5 V \pm 0.25 V @ 120 mA MAX
-15 V \pm 0.25 V @ 50 mA MAX
- EMC: ----- -80 dB MIN
- CONTROL LOGIC: ----- 2 BCD, 0 V < "0" < 0.8 V, 2.4 V < "1" < 5 V
- IMPEDANCE: ----- 50 OHMS
- CONNECTORS: ----- SMA FEMALE
- FINISH: ----- ALODINE AND LASER SEALING

C1	C2	E	ON	OFF
DC	DC	1	-	J0-J1, J2, J3, J4
0	0	0	J0-J1	J0-J2, J3, J4
0	1	0	J0-J2	J0-J1, J3, J4
1	0	0	J0-J3	J0-J1, J2, J4
1	1	0	J0-J4	J0-J1, J2, J3

- TEMPERATURE: ----- -40 °C TO +85 °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

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/19/2019	

Technical drawing of the P4T-0D418-75-T-SFF module. The drawing shows the module's dimensions and labels. The module is rectangular with a central label area. The label area contains the FMI logo, the text "PLANAR MONOLITHICS INDUSTRIES", and the model and serial numbers. The module has four connectors on the bottom (J1, J2, J3, J4) and two on the top (C1, C2). The dimensions are given in inches and millimeters.

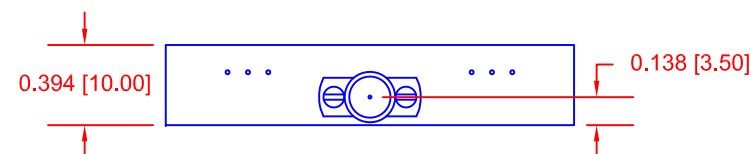
Labels on the module:

- E C2 C1
- J0
- 15V G +5V
- FMI
- MADE IN USA
- FSCM 05XQ0
- PLANAR MONOLITHICS INDUSTRIES
- MODEL NO: P4T-0D418-75-T-SFF
- SERIAL NO: PLXXXX/XXXX
- J4 J3 J2 J1

Dimensions (inches [millimeters]):

- Overall width: 2.008 [51.00]
- Overall height: 0.984 [25.00]
- Distance from top edge to center of J1/J2: 0.492 [12.50]
- Distance between J1 and J2: 0.500 [12.70]
- Distance between J2 and J3: 1.500 [38.10]
- Distance between J3 and J4: 1.799 [45.70]
- Distance from left edge to center of J1: 1.500 [38.10]
- Distance from left edge to center of J2: 1.799 [45.70]
- Distance from left edge to center of J3: 1.500 [38.10]
- Distance from left edge to center of J4: 0.500 [12.70]

Note: The dimension 0.106 [Ø2.70] is indicated for the mounting holes.



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APPROVALS	DATE				
DRAWN <i>EW</i>	11/19/19				
REDRAWN		SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REVISION -
ISSUED		SCALE N:S			SHEET 1 OF 1