

DESCRIPTION:

PMI MODEL NUMBER P8T-0D418-75-T-SFF IS A SINGLE POLE, EIGHT 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.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/19/2023	
	B1	ECN # 24-0158	5/24/2024	

SPECIFICATIONS:

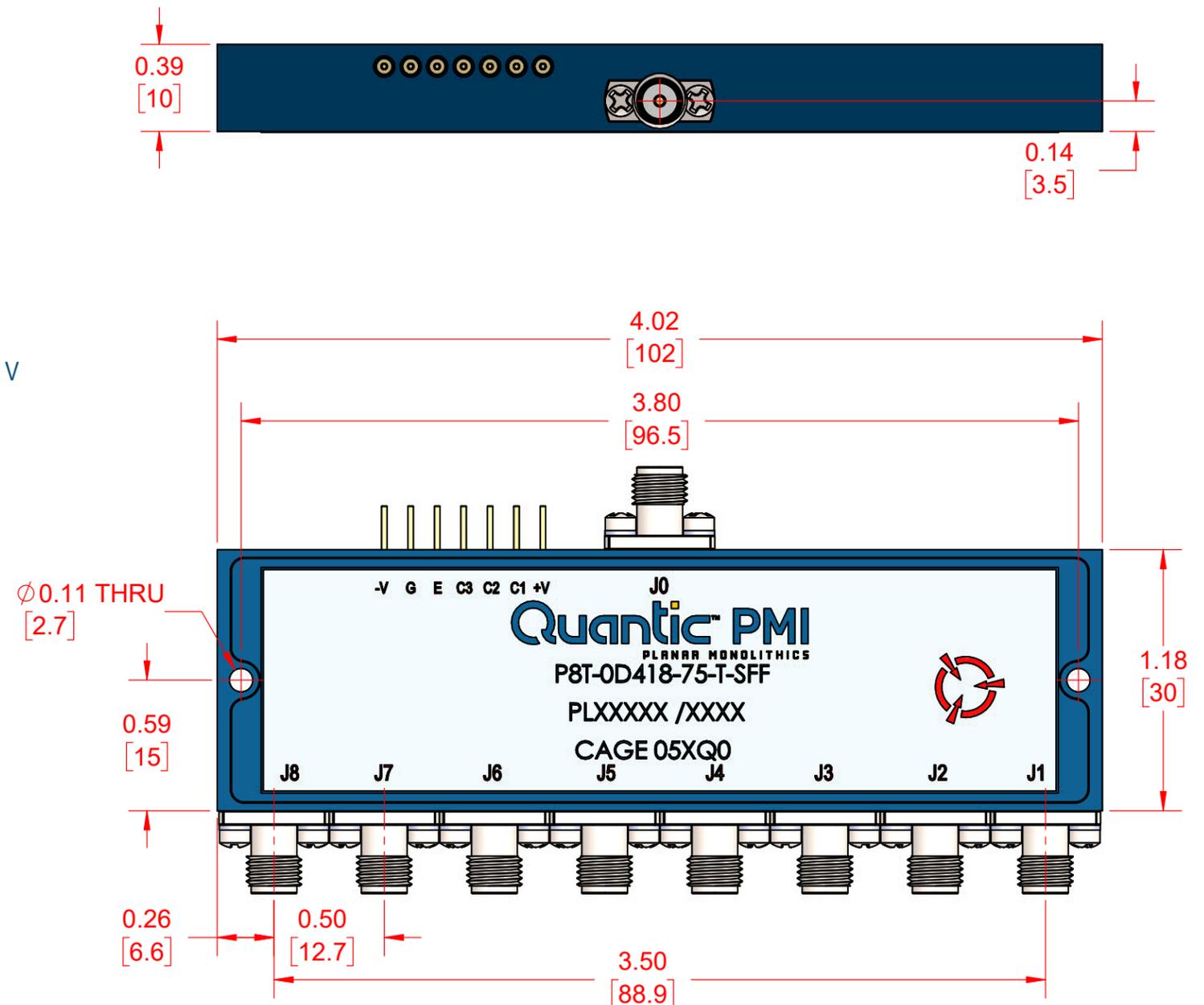
- FREQUENCY RANGE:..... 0.4 TO 18.0 GHz
- ISOLATION:..... 75 dB MIN
- INSERTION LOSS:..... 3.4 dB MAX @ 0.4 TO 10.0 GHz
5 dB MAX @ 10.0 TO 18.0 GHz
- RETURN LOSS (ALL PORTS ON OR OFF STATE):..... -10 dB MIN
- RISE/FALL TIME (10% TO 90% RF, 90% TO 10% RF):..... 50 ns MAX
- ON/OFF TIME (50% TTL TO 90% RF, 50% TTL TO 10% RF):..... 100 ns MAX
- RF POWER:..... 1W CW (SURVIVAL)
- POWER SUPPLY:..... +5 V ± 0.25 V @ 250 mA MAX
-15 V ± 0.25 V @ 100 mA MAX
- CONTROL LOGIC:..... 3 BCD, 0 V < "0" < 0.8 V, 2.4 V < "1" < 5 V
- IMPEDANCE:..... 50 OHMS
- CONNECTORS:..... SMA FEMALE
- SEALING:..... EPOXY SEALING
- FINISH:..... PAINTED BLUE

C1	C2	C3	E	ON	OFF
DC	DC	DC	1	-	J0-J1, J2, J3, J4, J5, J6, J7, J8
0	0	0	0	J0-J1	J0-J2, J3, J4, J5, J6, J7, J8
0	0	1	0	J0-J2	J0-J1, J3, J4, J5, J6, J7, J8
0	1	0	0	J0-J3	J0-J1, J2, J4, J5, J6, J7, J8
0	1	1	0	J0-J4	J0-J1, J2, J3, J5, J6, J7, J8
1	0	0	0	J0-J5	J0-J1, J2, J3, J4, J6, J7, J8
1	0	1	0	J0-J6	J0-J1, J2, J3, J4, J5, J7, J8
1	1	0	0	J0-J7	J0-J1, J2, J3, J4, J5, J6, J8
1	1	1	0	J0-J8	J0-J1, J2, J3, J4, J5, J6, J7

ENVIRONMENTAL RATINGS:

- 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 204B COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS DRAWN S AZHAR REDRAWN ISSUED		DATE		TITLE OUTLINE P8T-0D418-75-T-SFF			
		6/19/2023					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± .XXX ± 0.01		SIZE	FSCM NO.	DWG NO.	REV.		
		B	05XQ0	27046780	B1		
		SCALE 1.5:1			SHEET 1 OF 1		

Quantic PMI
PLANAR MONOLITHICS

7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA
TEL: (301) 662-5019, FAX: (301) 662-1731
WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM
ISO 9001 CERTIFIED