

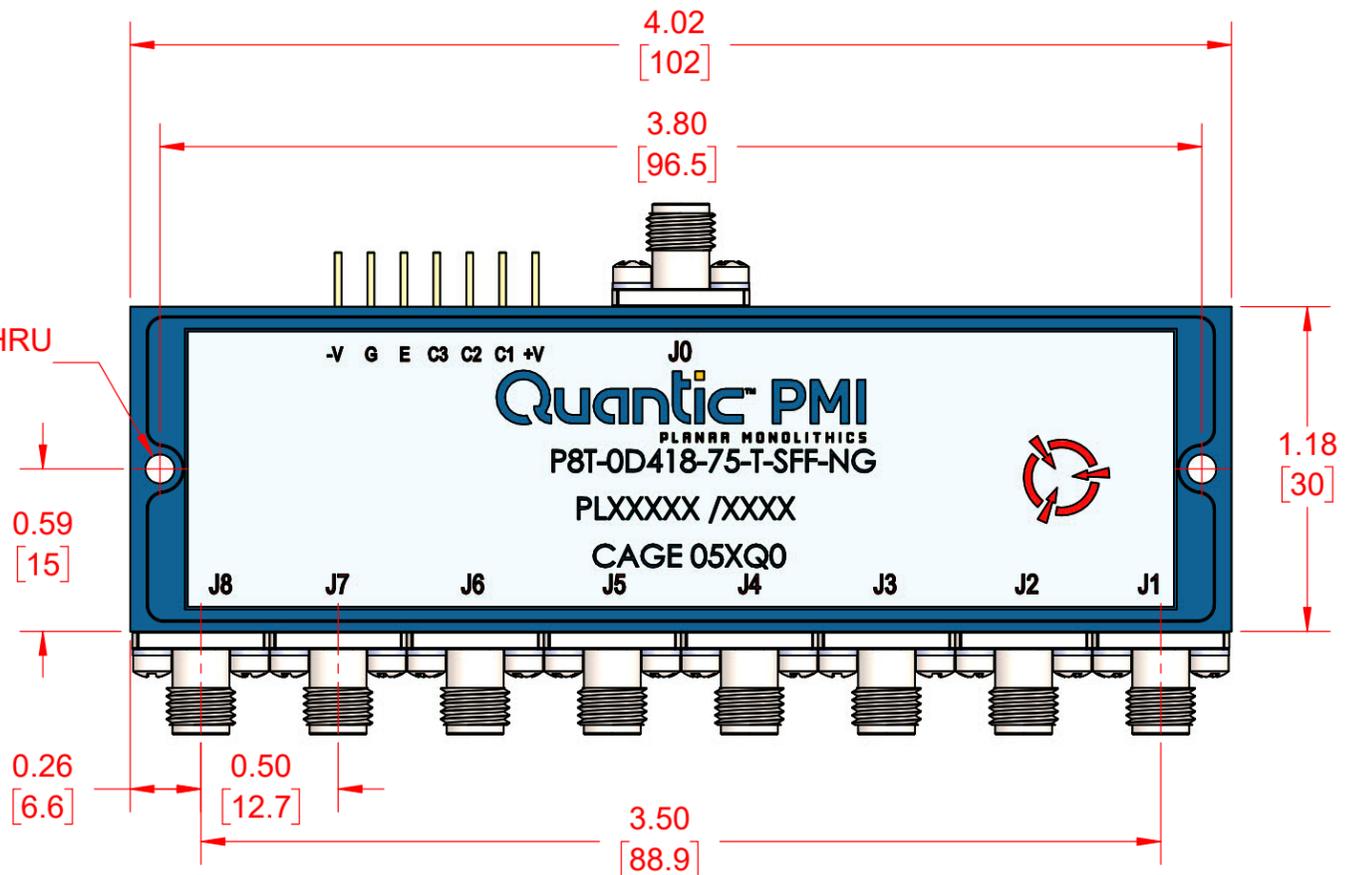
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/21/2024	

DESCRIPTION:

PMI MODEL P8T-0D418-75-T-SFF-NG IS A SINGLE POLE EIGHT THROW ABSORPTIVE SWITCH THAT OPERATES OVER THE FREQUENCY RANGE OF 0.4 TO 18 GHz. IT HAS A MINIMUM ISOLATION OF 75 dB AND A MINIMUM RETURN LOSS OF 10 dB. THIS MODEL HAS THE FOLLOWING SPECIFICATIONS.

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
4.5 dB MAX @ 10.0 TO 18.0 GHz
- RETURN LOSS (ALL PORTS ON OR OFF STATE):..... 10 dB MIN
- RISE/FALL TIME:..... 50 ns MAX
- ON/OFF TIME:..... 100 ns MAX
- INPUT POWER:..... +25 dBm CW MAX
(+20 dBm HOT SWITCHING)
- POWER SUPPLY :..... +5 V ±0.25 V @ 250 mA MAX
-12 V ±0.25 V @ 100 mA MAX
- CONTROL LOGIC:..... TTL (ENCODED 3-BIT)
ALL OFF CONDITION USE ENABLE PIN
- IMPEDANCE:..... 50 Ω
- CONNECTORS:..... SMA FEMALE
- 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 204D 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 11/21/2024		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	
		TITLE OUTLINE P8T-0D418-75-T-SFF-NG			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.02 ± XXX ± 0.01		SIZE B	FSCM NO. 05XQ0	DWG NO. 27050320	REV. A1
SCALE 1.5:1			SHEET 1 OF 1		