

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER P5P-218-S6F-2 IS A PENTAPLEXER COVERING 2 TO 18 GHz. THE UNIT IS BANDED AS FOLLOWS 2-4 GHz, 4-6 GHz, 6-8 GHz, 8-12 GHz AND 12-18 GHz, WITH A RF SURVIVAL INPUT POWER OF 1W CW.

SPECIFICATIONS:

- RF INPUT FREQUENCY RANGE J0:..... 2.0 TO 18.0 GHz
- RF SURVIVAL INPUT POWER:..... +30 dBm (1 WATT) CW MAX
- CROSSOVER INSERTION LOSS:..... 4 GHz ± 2%: 5.5 dB TYP., 5 dB MAX
6 GHz ± 2%: 5.5 dB TYP., 6 dB MAX
8 GHz ± 2%: 5.5 dB TYP., 6 dB MAX
12 GHz ± 2%: 5.5 dB TYP., 7 dB MAX

BAND 1: J1

- FREQUENCY RANGE:..... 2.0 TO 4.0 GHz
- INSERTION LOSS:..... 1.85 dB MAX @ 2.1 TO 3.8 GHz
- RETURN LOSS (OVER INSERTION LOSS BAND): 10 dB TYP., 9dB MIN
- REJECTION:..... 30 dBc MIN @ DC TO 1.7 GHz, 4.3 TO 18 GHz

BAND 2: J2

- FREQUENCY RANGE:..... 4.0 TO 6.0 GHz
- INSERTION LOSS:..... 1.85 dB MAX @ 4.2 TO 5.7 GHz
- RETURN LOSS (OVER INSERTION LOSS BAND): 10 dB TYP., 9dB MIN
- REJECTION:..... 30 dBc MIN @ DC TO 3.7 GHz, 6.3 TO 18 GHz

BAND 3: J3

- FREQUENCY RANGE:..... 6.0 TO 8.0 GHz
- INSERTION LOSS:..... 1.85 dB MAX @ 6.3 TO 7.6 GHz
- RETURN LOSS (OVER INSERTION LOSS BAND): 10 dB TYP., 9 dB MIN
- REJECTION:..... 30 dBc MIN @ DC TO 5.7 GHz, 8.3 TO 18 GHz

BAND 4: J4

- FREQUENCY RANGE:..... 8.0 TO 12.0 GHz
- INSERTION LOSS:..... 1.85 dB MAX @ 8.4 TO 11.4 GHz
- RETURN LOSS (OVER INSERTION LOSS BAND): 10 dB TYP., 9 dB MIN
- REJECTION:..... 30 dBc MIN @ DC TO 7.7 GHz, 12.3 TO 18 GHz

BAND 5: J5

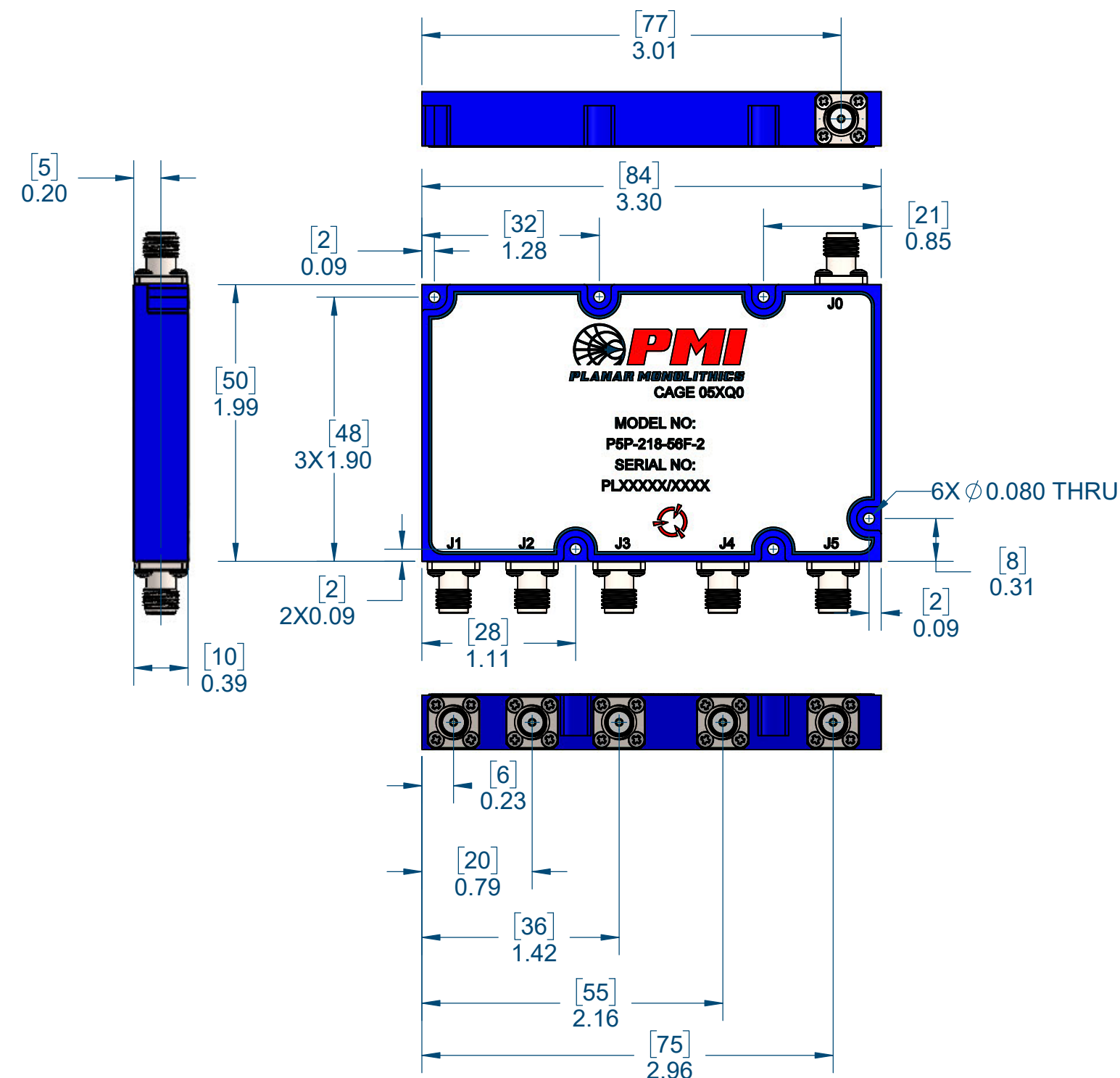
- FREQUENCY RANGE:..... 12.0 TO 18.0 GHz
- INSERTION LOSS:..... 1.85 dB MAX @ 12.6 TO 17.1 GHz
- RETURN LOSS (OVER INSERTION LOSS BAND): 10 dB TYP., 9 dB MIN
- REJECTION:..... 30 dBc MIN @ DC TO 11.7 GHz, 18.6 TO 20 GHz

- SIZE:..... 3.30" X 1.99" X 0.39"
84mm X 50mm X 10mm
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	1/9/2016	



PMI CONFIDENTIAL AND PROPRIETARY

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES ± .XX ± 0.010 ± XXX ± 0.005		PART NO.		 7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA TEL: (301) 862-5019, FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM, EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED	
MATERIAL:		APPROVALS			
FINISH:		DRAWN B.WALL		1/9/2025	TITLE OUTLINE
NEXT ASSY	USED ON	ISSUED		SIZE B	FSCM NO. 05XQ0
APPLICATION				DWG NO. 27054000	REV. A1
				SCALE 1:1	SHEET 1 OF 1