

DESCRIPTION:

PLANAR MONOLITHICS INDUSTRIES MODEL NUMBER P5P-218-S6F 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:.....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.
6 GHz ± 2%: 5.5 dB TYP.
8 GHz ± 2%: 5.5 dB TYP.
12 GHz ± 2%: 5.5 dB TYP.

- BAND 1:
- FREQUENCY RANGE:.....2.0 TO 4.0 GHz
 - INSERTION LOSS:.....1.5 dB MAX @ 2.1 TO 3.8 GHz
 - RETURN LOSS (OVER INSERTION LOSS BAND): 12 dB MIN
 - REJECTION:.....-45 dBc MIN @ DC TO 1.7 GHz, 4.3 TO 20 GHz

- BAND 2:
- FREQUENCY RANGE:.....4.0 TO 6.0 GHz
 - INSERTION LOSS:.....1.5 dB MAX @ 4.2 TO 5.7 GHz
 - RETURN LOSS (OVER INSERTION LOSS BAND): 12 dB MIN
 - REJECTION:.....-45 dBc MIN @ DC TO 3.7 GHz, 6.3 TO 20 GHz

- BAND 3:
- FREQUENCY RANGE:.....6.0 TO 8.0 GHz
 - INSERTION LOSS:.....1.5 dB MAX @ 6.3 TO 7.6 GHz
 - RETURN LOSS (OVER INSERTION LOSS BAND): 12 dB MIN
 - REJECTION:.....-45 dBc MIN @ DC TO 5.7 GHz, 8.3 TO 20 GHz

- BAND 4:
- FREQUENCY RANGE:.....8.0 TO 12.0 GHz
 - INSERTION LOSS:.....1.5 dB MAX @ 8.4 TO 11.4 GHz
 - RETURN LOSS (OVER INSERTION LOSS BAND): 12 dB MIN
 - REJECTION:.....-45 dBc MIN @ DC TO 7.7 GHz, 12.3 TO 20 GHz

- BAND 5:
- FREQUENCY RANGE:.....12.0 TO 18.0 GHz
 - INSERTION LOSS:.....1.5 dB MAX @ 12.6 TO 17.1 GHz
 - RETURN LOSS (OVER INSERTION LOSS BAND): 12 dB MIN
 - REJECTION:.....-40 dBc MIN @ DC TO 11.7 GHz, 18.6 TO 20 GHz

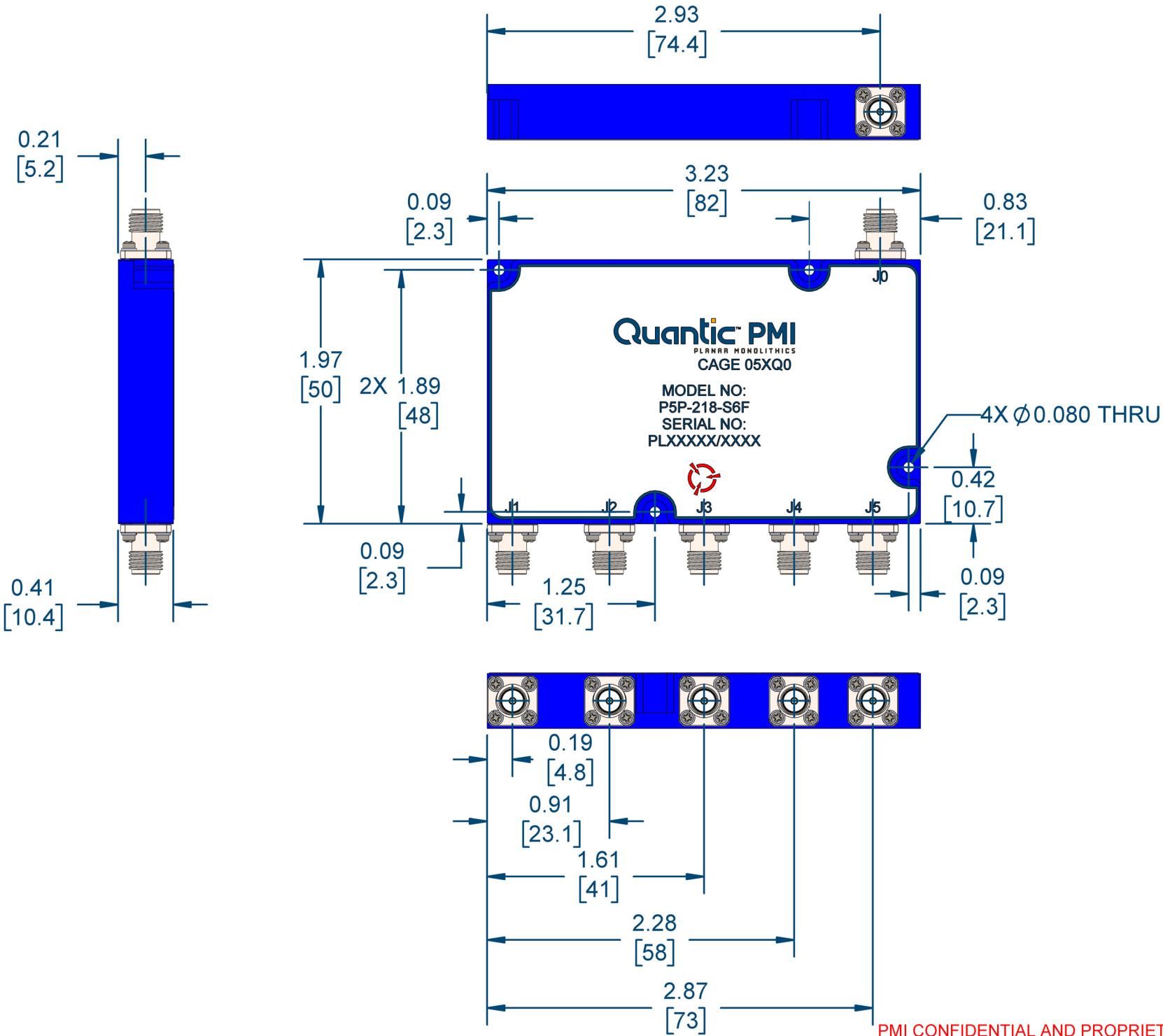
- SIZE:.....3.22" X 1.96" X 0.39"
82mm X 50mm X 10mm
- FINISH:.....PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:.....-40°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	7/2/2024	



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

APPROVALS	DATE
DRAWN R. SIRK	9/10/2024
REDRAWN	
ISSUED	

TITLE	OUTLINE P5P-218-S6F
SIZE	B
FSCM NO.	05XQ0
DWG NO.	27049780
REV.	A1

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS DECIMALS ANGLES
± .XX ± 0.02 ±
± .XXX ± 0.01

SCALE 1:1 SHEET 1 OF 1