

DESCRIPTION:

PMI MODEL 6X2SFB-2G6GBP-2D9G6G-SFF IS A 6 CHANNEL SWITCH FILTER BANK WITH A FREQUENCY BAND RANGING FROM 2 TO 6 GHz.

| ZONE | REV. | DESCRIPTION | DATE | APPROVED |
|------|------|------------------|-----------|----------|
| | - | ORIGINAL RELEASE | 11/7/2023 | |
| | 4 | UPDATE SPECS | 2/23/24 | |
| | 5 | UPDATE SPECS | 1/13/26 | |
| | 6 | UPDATE SPECS | 2/11/26 | |

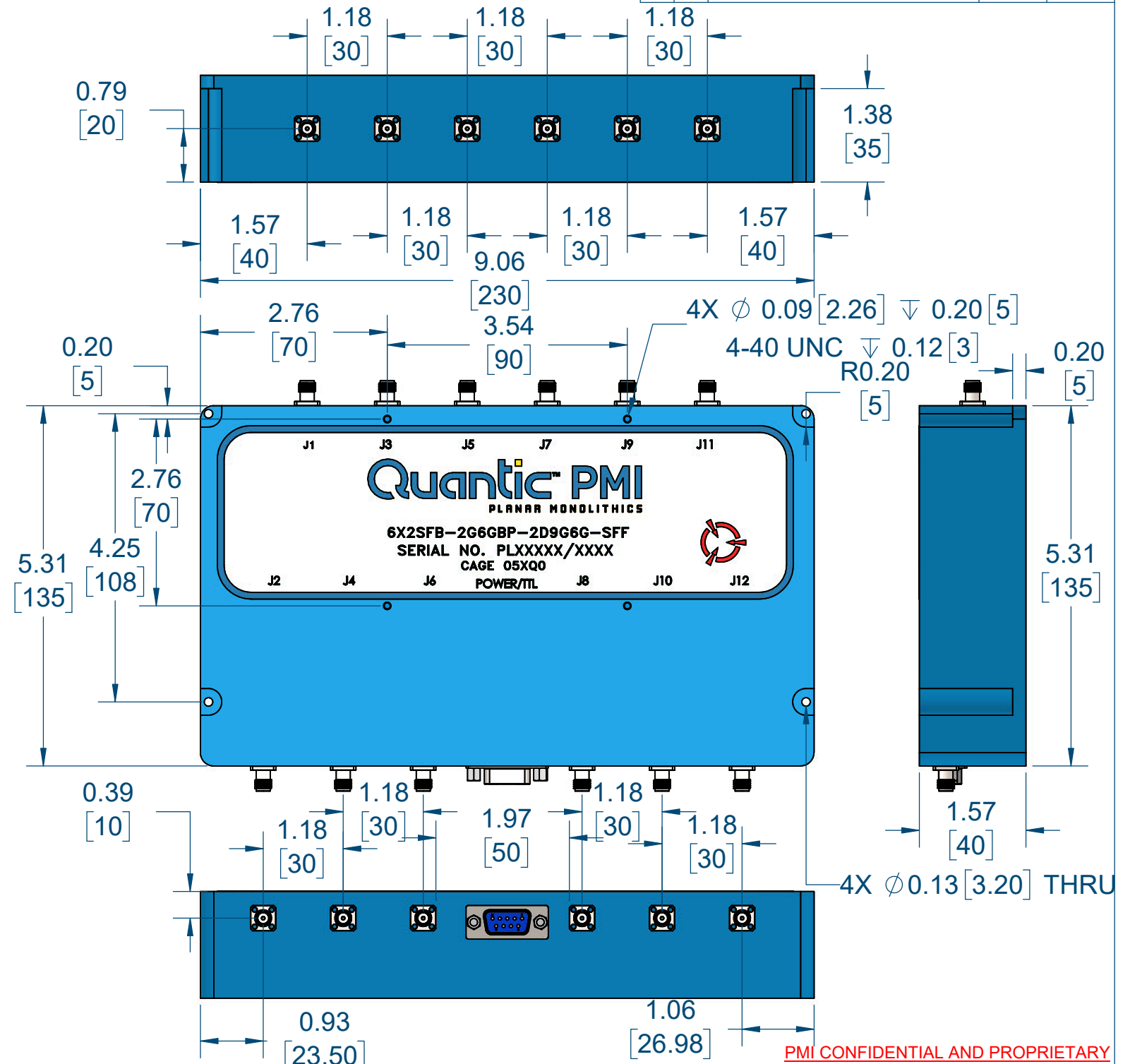
SPECIFICATIONS:

- FREQUENCY RANGE:..... 2 TO 6 GHz
 - POWER HANDLING:..... INPUT POWER:
COLD SWITCHING - 10W(CW), 30W PEAK
HOT SWITCHING - 2W (VSWR < 1.25:1)
500,000 CYCLES
(20 CYCLES PER Min/MAX)
 - SWITCHING CONFIGURATION:..... NON-LATCHING
 - POWER SUPPLY:..... +15 VDC
 - INSERTION LOSS:..... 3.0 dB MAX
 - VSWR:..... 2.5:1 MAX
 - CONTROL:..... TTL LOGIC / D TYPE CONNECTOR
 - CONNECTORS:..... RF INPUT X6, RF OUTPUT X6
9 PIN D-SUB
 - FINISH:..... PAINTED BLUE
- FILTER SPECS:**
- FILTER 1:.....
PASSBAND:..... 2 TO 6 GHz
INSERTION LOSS @ PASSBAND: 2.0 dB MAX FOR 90% OF CENTER FREQUENCY OF BANDWIDTH OTHERS 2.5 dB MAX
@ 2.2 - 5.8 GHz:..... 2.0 dB MAX
REJECTION:..... 40 dB @ 1.75 GHz AND @ 6.6 GHz
 - FILTER 2:.....
PASSBAND:..... 3.8 TO 6 GHz
INSERTION LOSS:..... 2.0 dB MAX FOR 90% OF CENTER FREQUENCY OF BANDWIDTH OTHERS 2.5 dB MAX
@ 3.91 - 5.89 GHz:..... 2.0 dB MAX
REJECTION:..... 40 dB @ 3.58 GHz AND @ 6.6 GHz

| PIN # | NAME |
|-------|----------|
| 1 | N/C |
| 2 | N/C |
| 3 | TTL CTRL |
| 4 | N/C |
| 5 | GND |
| 6 | +15V |
| 7 | GND |
| 8 | N/C |
| 9 | N/C |

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-45°C TO +95°C (STORAGE)
Meet MIL-STD-810F Test Method, Method 502, Process II.(Low Temperature)
Meet MIL-STD-810F Test Method, Method 501, Process II.(High Temperature)
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- RANDOM VIBRATION:..... 20 Hz to 2000 Hz, random at 6.0 Grms, in all three axis and 10 min/ each axis, MIN
Meet MIL-STD-810F Test Method, Method 514, Process I.
- VIBRATION:..... MIL-STD-202, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107

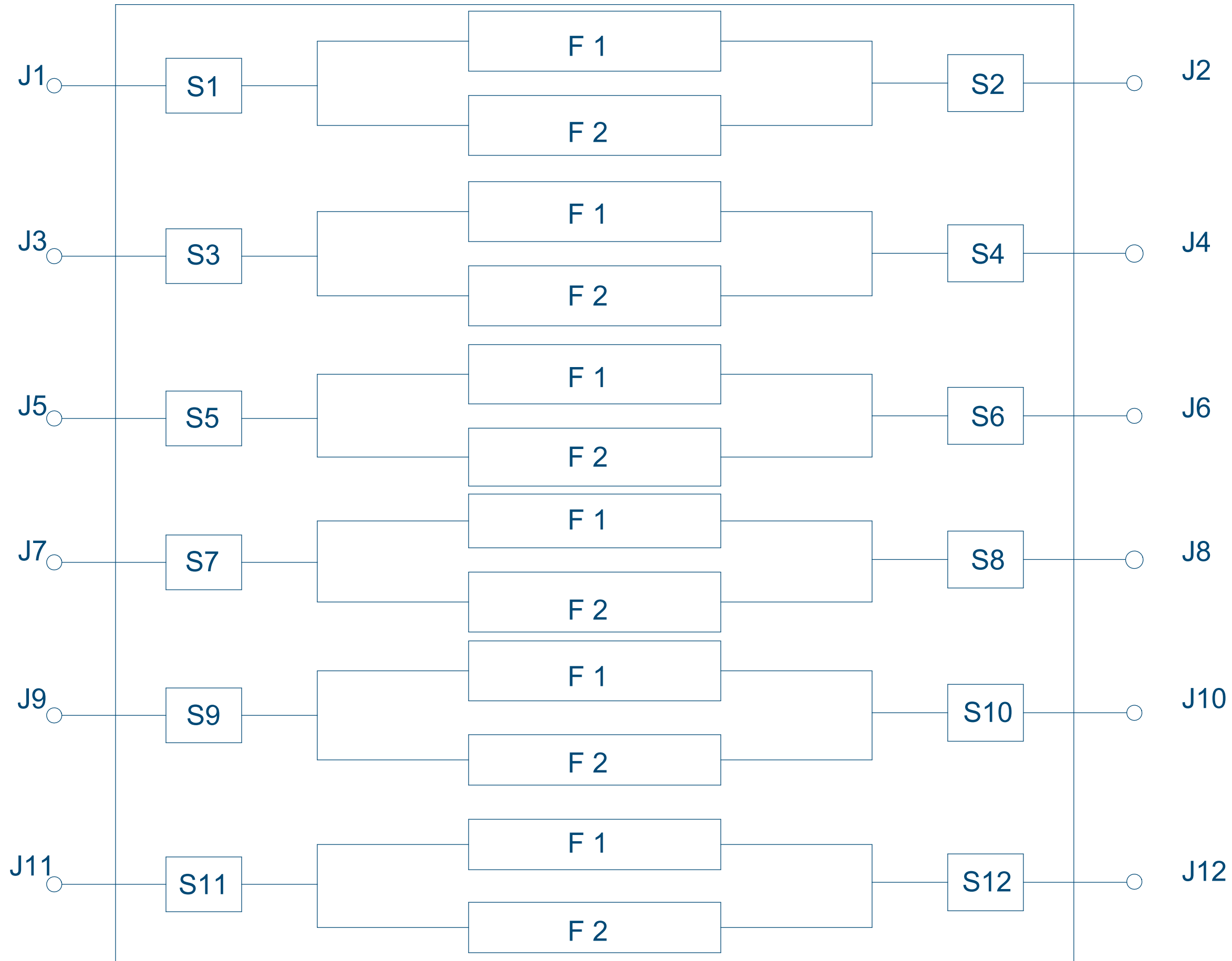


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| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: | | PART NO. | | Quantic PMI PLANAR MONOLITHICS | |
|---|-----------------------------|-------------------|-----------|-----------------------------------|---|
| FRACTIONS | DECIMALS | ANGLES | APPROVALS | DATE | TITLE |
| ± | .XX ± 0.010 .XXX ± 0.005 | ± | M.LAULIS | 11/7/2023 | PRODUCT FEATURE 6X2SFB-2G6GBP-2D9G6G-SFF |
| MATERIAL: | | DRAWN M.LAULIS | | SIZE B | |
| FINISH: | | REISSUED | | FSCM NO. 05XQ0 | |
| NEXT ASSY | | USED ON | | DWG NO. PRELIMINARY | |
| APPLICATION | | | | REV. 6 | |
| | | | | SCALE 1:2 | |
| | | | | SHEET 1 OF 2 | |

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ISO 9001 CERTIFIED

BLOCK DIAGRAM



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| | | | | |
|--------------------------|----------|---------|--------------|-----------------|
| TITLE | | | | PRODUCT FEATURE |
| 6X2SFB-2G6GBP-2D9G6G-SFF | | | | REV. 5 |
| SIZE | FSCM NO. | DWG NO. | PRELIMINARY | |
| B | 05XQ0 | | | |
| SCALE 1:1 | | | SHEET 2 OF 2 | |