

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

- 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 AND FAIL SAFE (F1 PATH)
- POWER SUPPLY: _____ +15 VDC
- INSERTION LOSS: _____ 3.0 dB MAX
- VSWR: _____ 2.5:1 MAX
- MTBF: _____ 5,000 HOURS MIN (NAVAL SHELTERED @ +55°C)

- FILTER 1:
 - PASSBAND: _____ 2 TO 6 GHz
 - REJECTION: _____ 40 dB @ 1.75 GHz AND @ 6.6 GHz
 - INSERTION LOSS @ PASSBAND: _____ 2.0 dB MAX FOR 90% OF CENTER FREQUENCY OF BANDWIDTH, OTHERS 2.5 dB MAX
 - INSERTION LOSS @ 2.2 - 5.8 GHz: _____ 2.0 dB MAX

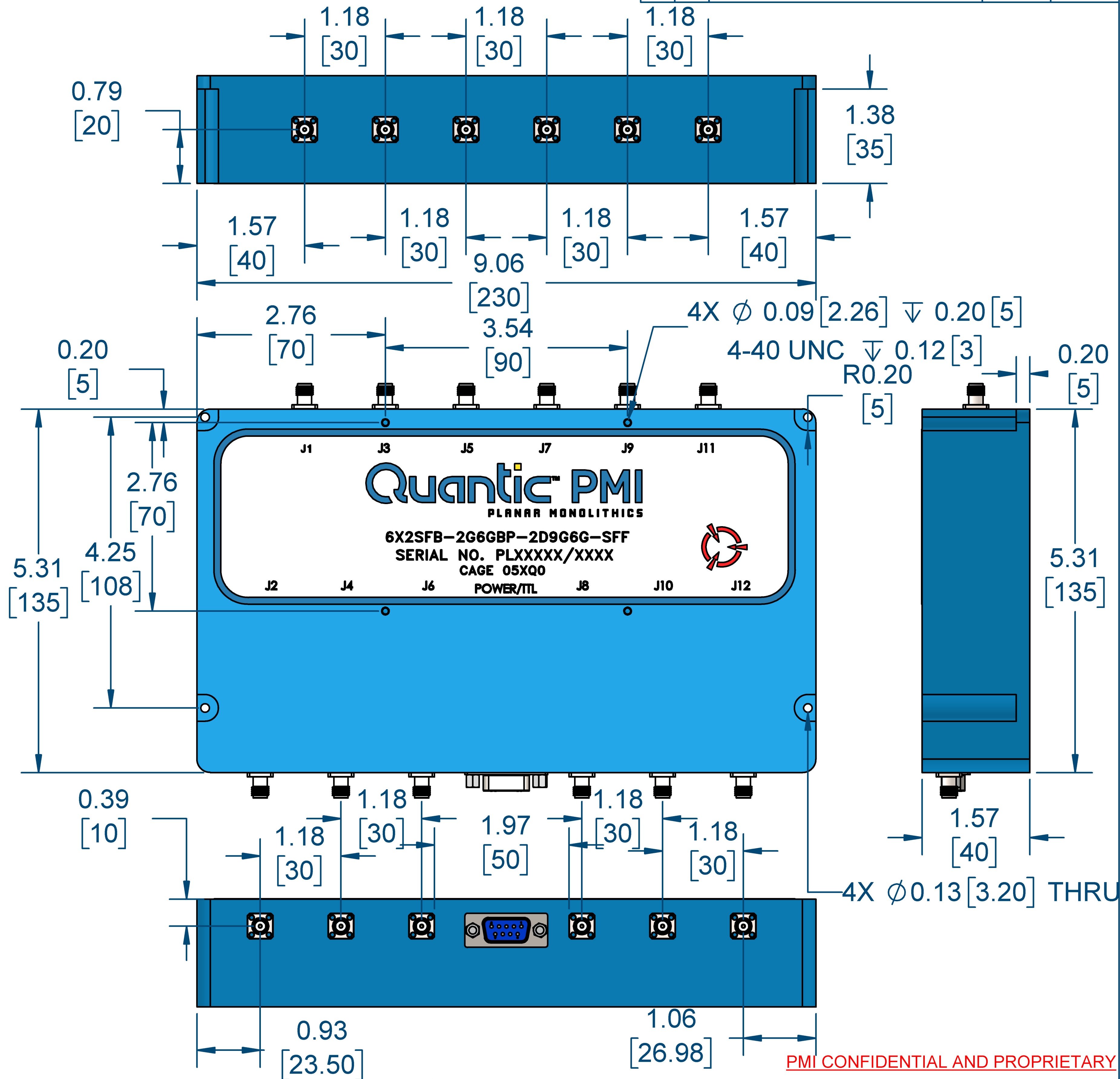
PASSBAND: _____ 3.8 TO 6 GHz
REJECTION: _____ 40 dB @ 3.58 GHz AND @ 6.6 GHz
INSERTION LOSS: _____ 2.0 dB MAX FOR 90% OF CENTER FREQUENCY OF
BANDWIDTH, OTHERS 2.5 dB MAX
INSERTION LOSS @ 3.91 - 5.89 GHz: — 2.0 dB MAX

- | 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 |

TRUTH TABLE		
POWER	TTL CONTROL	RF PATH
OFF	N/A	F1 (DEFAULT)
ON	LOW	F1
ON	HIGH	F2

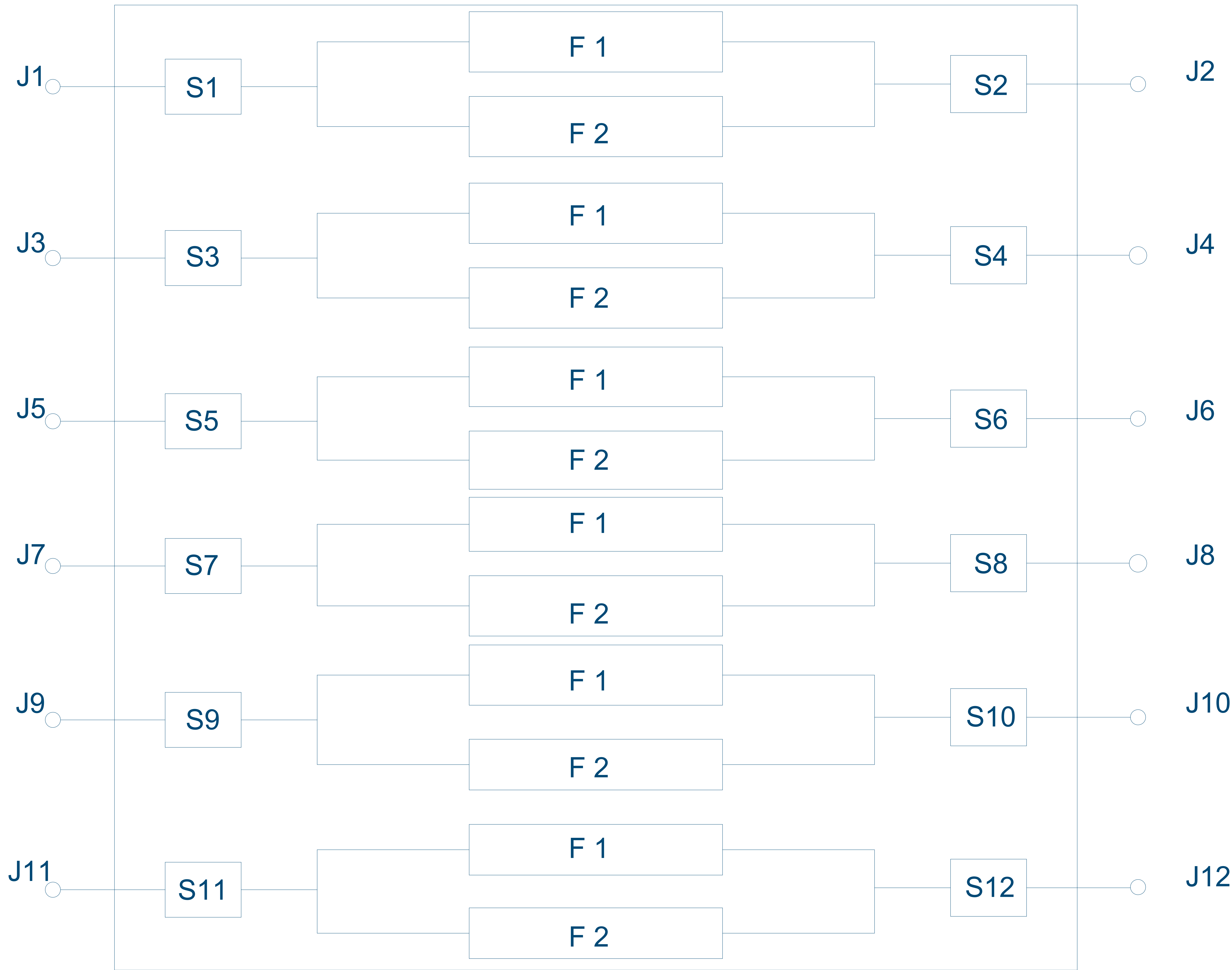
- TEMPERATURE: ————— -40°C TO +85°C (OPERATING)
-45°C TO +95°C (STORAGE)
Meet MIL-STD-810 Test Method, Method 502, Process II. (Low Temp)
Meet MIL-STD-810 Test Method, Method 501, Process II. (High Temp)
- SHOCK: ————— MIL-STD-202, METHOD 213 COND. B
- RANDOM VIBRATION: ——— 20 Hz to 2000 Hz, random at 6.0 Grms, in all three axis and 10 min/a
Meet MIL-STD-810 Test Method, Method 514, Process I.
Test Duration: 3 Hours
- VIBRATION: ————— MIL-STD-202, METHOD 204 COND. B
- ALTITUDE: ————— MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE: — MIL-STD-202, METHOD 107
THE TOTAL NUMBER OF CYCLES IS 10 CYCLES
(TOTAL 48 HOURS)

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	11/7/2023	
	6	UPDATE SPECS	2/11/2026	
	7	UPDATE SPECS	6/30/2026	
	8	UPDATE SPECS	7/10/2026	



		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) 662-5019 FAX: (301) 662-1731 WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM ISO 9001 CERTIFIED					
		MATERIAL:		APPROVALS		DATE		TITLE PRODUCT FEATURE 6X2SFB-2G6GBP-2D9G6G-SFF			
				M.LAULIS		11/7/2023					
		FINISH:		REDRAWN				SIZE B 05XQ0 DWG NO. PRELIMINARY REV. 8			
NEXT ASSY		USED ON		ISSUED							
APPLICATION								SCALE 1:2		SHEET 1 OF 2	

BLOCK DIAGRAM



PMI CONFIDENTIAL AND PROPRIETARY

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TITLE		PRODUCT FEATURE	
		6X2SFB-2G6GBP-2D9G6G-SFF	
SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	PRELIMINARY	7
SCALE 1:1		SHEET 2 OF 2	