

**DESCRIPTION:**

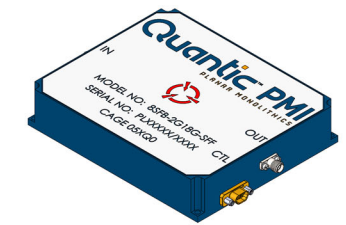
PMI MODEL NO. 8SFB-2G18G-SFF IS AN 8-CHANNEL SWITCH FILTER BANK THAT OPERATES OVER THE FREQUENCY RANGE OF 2 TO 18 GHz. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	11/8/2022	

**SPECIFICATIONS:**

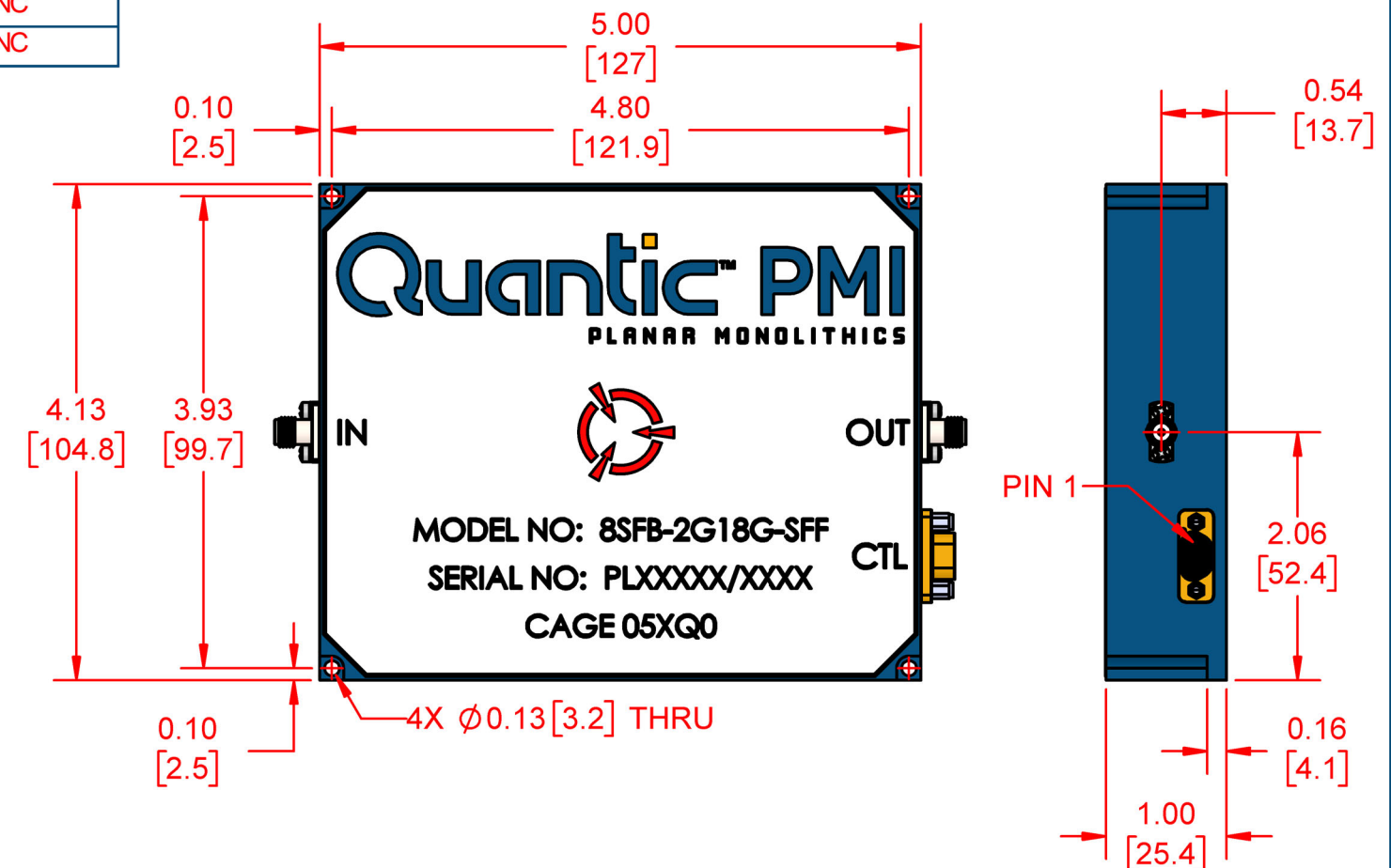
- FREQUENCY RANGE:..... 2 TO 18 GHz
- INSERTION LOSS:..... 8 dB TYP, 10 dB MAX
- VSWR:..... 2.0:1 MAX
- PASS BAND RIPPLE:..... ±0.5 dB TYP, ±1.0 dB MAX
- INPUT POWER:..... 15 dBm MAX
- SWITCHING SPEED:..... 200 ns MAX
- DC SUPPLY:..... +12V @ 500 mA  
-12V @ 100 mA
- IMPEDANCE:..... 50 Ω
- INPUT/OUTPUT CONNECTORS:..... SMA FEMALE
- DC & CONTROL:..... 9 PIN MICRO-D (FEMALE)
- FINISH:..... PAINTED BLUE

9-PIN CONNECTOR PIN-OUT	
PIN	FUNCTION
1	+12V
2	GND
3	-12V
4	C1
5	C2
6	C3
7	NC
8	NC
9	NC



LOGIC TABLE						
CHANNEL	C3	C2	C1	PASSBAND (GHz)	LOWER REJECTION (GHz)	UPPER REJECTION (GHz)
1	0	0	0	2-4	N/A	4.6-13.75 GHz ≤ -60 dB
2	0	0	1	4-6	3.25 GHz ≤ -60 dB	7.25 GHz ≤ -60 dB
3	0	1	0	6-8	3.75 GHz ≤ -60 dB	9.25 GHz ≤ -60 dB
4	0	1	1	8-10	6.75 GHz ≤ -60 dB	11.25 GHz ≤ -60 dB
5	1	0	0	10-12	8.75 GHz ≤ -60 dB	13.25 GHz ≤ -60 dB
6	1	0	1	12-14	10.75 GHz ≤ -60 dB	15.25 GHz ≤ -60 dB
7	1	1	0	14-16	12.75 GHz ≤ -60 dB	17.25 GHz ≤ -60 dB
8	1	1	1	16-18	14.75 GHz ≤ -60 dB	19.25 GHz ≤ -60 dB

ABSOLUTE MAX RATINGS	
BIASING	+12V / -12V
TTL CONTROL VOLTAGE	+3.3-+5V / 0-+0.8V
INPUT RF POWER	+20 dBm



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)  
-55°C TO +125°C (STORAGE)
- OPERATING HUMIDITY:..... MIL-STD-202F, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202F, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE:..... MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202F, 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		DATE	TITLE		
DRAWN	J ESCANO	11/8/2022	OUTLINE		
REDRAWN			8SFB-2G18G-SFF		
ISSUED			SIZE	FSCM NO.	DWG NO.
			B	05XQ0	27045340
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			SCALE	SHEET 1 OF 1	
TOLERANCES ARE:					
FRACTIONS DECIMALS ANGLES					
± .XX ± 0.02 ±					
XXX ± 0.01					



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