

**DESCRIPTION:**

PMI MODEL 4SFB-9G18G-512-SFF IS A FOUR CHANNEL SWITCHED FILTER BANK OFFERING ULTRA FAST SWITCH SPEED & HIGH REJECTION WITH LOW LOSS. THIS MODEL OPERATES OVER THE 9.0 TO 18.0GHZ FREQUENCY RANGE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/31/14	

**SPECIFICATIONS:**

- FREQUENCY RANGE: 9.0 to 18.0GHz
- INSERTION LOSS: 8dB MAX
- VSWR: 2.0:1 MAX.
- IMPEDANCE: 50 OHMS
- SWITCHING SPEED: 100 nS MAX.
- CONTROL: TTL, 2 LINES
- POWER SUPPLY: +5VDC; 75mA TYP.  
-15VDC; 75mA TYP.
- CONNECTOR: SMA FEMALE (REMOVABLE)
- SIZE: 4.5" (L) X 4.5" (W) X 0.8" (H)
- FINISH: PAINTED BLUE

**CONTROL LOGIC**

CTRL1	CTRL2	FILTER PATH
0	0	9 - 10 GHz
0	1	10 - 11 GHz
1	0	16 - 17 GHz
1	1	17 - 18 GHz

**FILTER CHARACTERISTICS**

PARAMETER	FL1	FL2	FL3	FL4	UNITS
CENTER FREQUENCY	9.5	10.5	16.5	17.5	GHz
1dB BW	1 GHz NOMINAL				GHz
-60 dB MIN.	15 % OF CORNER FREQUENCY				GHz
ULTIMATE REJECTION	-60dB MIN. FOR ALL OUT-OF-BAND FREQUENCIES (2-20GHz)				GHz


CONFIDENTIAL & PROPRIETARY

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: -54°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- 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: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ± 0.020  
X.XXX ± 0.010

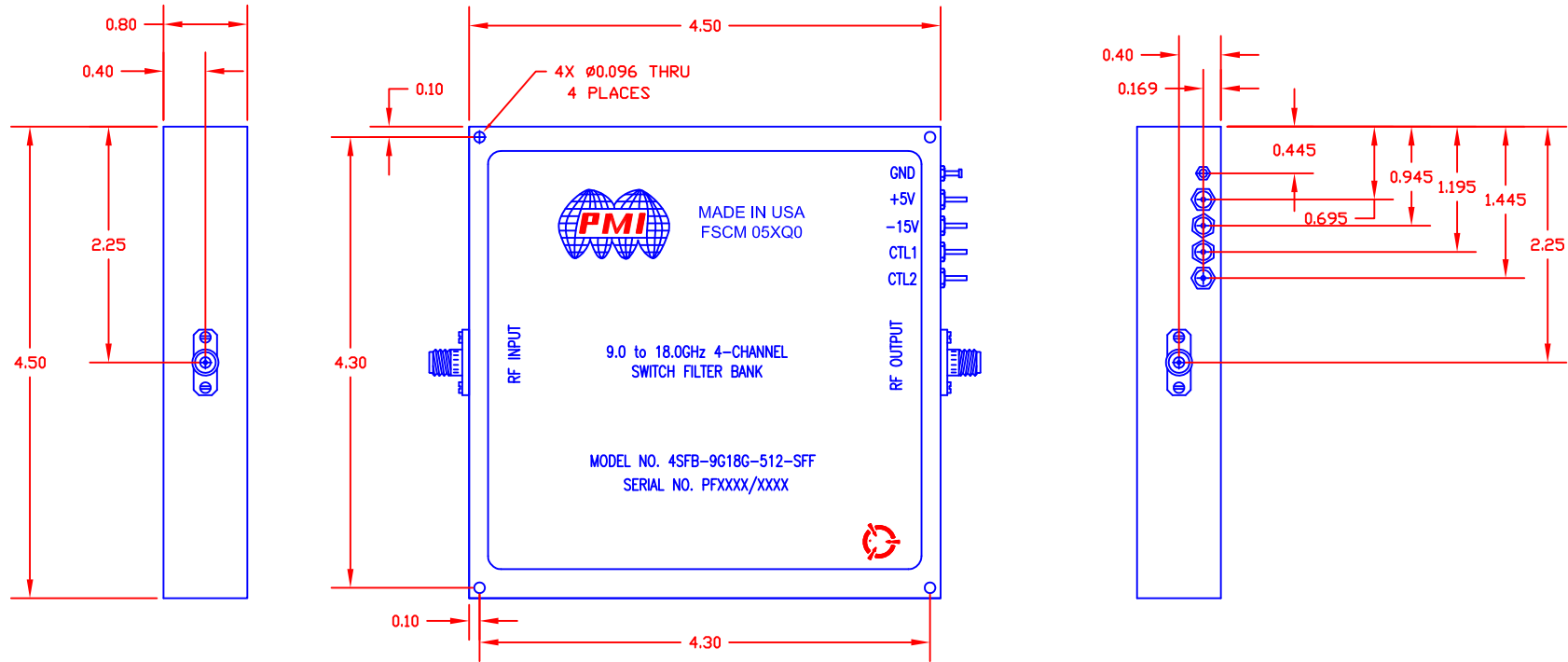
PART NO.		 <b>PLANAR MONOLITHICS INDUSTRIES</b> 5715 INDUSTRY LANE UNIT 11 FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRAWN K. Mason	7/31/14	<b>OUTLINE DRAWING</b> <b>4SFB-9G18G-512-SFF</b> <b>SWITCHED FILTER BANK</b>	
CHECKED		SIZE	FSCM NO.
ISSUED		A	05XQ0
		DWG NO.	PRELIMINARY
		SCALE	SHEET 1 of 2

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**MECHANICAL OUTLINE**



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APPROVALS	DATE	TITLE	
K. Mason	7/31/14	OUTLINE DRAWING 4SFB-9G18G-512-SFF SWITCHED FILTER BANK	
CHECKED		SIZE	FSCM NO.
		A	05XQ0
ISSUED		DWG NO.	PRELIMINARY
		SCALE	SHEET 2 of 2