

DESCRIPTION

PMI MODEL: SFB-218-SP6DR-HPM IS A SIX CHANNEL SWITCH FILTER BANK. THIS MODEL HAS SIX FILTER CHANNELS THAT COVER THE FREQUENCY RANGE OF 2.0 GHz TO 18.5 GHz. THIS MODEL INCLUDES AN INTEGRAL TTL DRIVER AND OFFERS FAST SWITCHING SPEEDS OF LESS THAN 1 μ s.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 18.5 GHz
- NO. 1 PASSBAND RANGE: 2.0 TO 3.0 GHz
- NO. 2 PASSBAND RANGE: 3.0 TO 5.0 GHz
- NO. 3 PASSBAND RANGE: 5.0 TO 8.0 GHz
- NO. 4 PASSBAND RANGE: 8.0 TO 11.0 GHz
- NO. 5 PASSBAND RANGE: 11.0 TO 14.0 GHz
- NO. 6 PASSBAND RANGE: 14.0 TO 18.5 GHz
- INSERTION LOSS (PASSBAND): 6.0 dB MAX
- INSERTION LOSS VARIATION: 1.3 dB MAX WITHIN EACH BAND
- INPUT POWER LEVEL: +32.5 dBm MIN
+33 dBm MAX
- POWER SUPPLY LEVEL: +15.0 $\pm$ 0.5 V @ 250 mA MAX
-15.0 $\pm$ 0.5 V @ 150 mA MAX
- INPUT/OUTPUT IMPEDANCE: 50 Ω
- PASSBAND VSWR: 1.5:1 GOAL
2.0:1 MAX
- I/P & O/P CONNECTOR: SMA FEMALE REMOVABLE
- CONTROL LINE: 3 BIT BINARY, TTL CONTROLLED INPUTS
- SWITCHING SPEED: 1 μ s
- SIZE: 4.00" x 3.50" x 1.20"
- WEIGHT: 7.5 oz TYP

BAND REJECTION WITH RESPECT TO OUTPUT PORT J2

BAND	LOW BAND REJECTION 40 dBc MIN	MID BAND REJECTION 60 dBc MIN	HIGH BAND REJECTION 40 dBc MIN
1	300 kHz TO 1.6 GHz	3.98 TO 9.1 GHz	9.1 TO 18.5 GHz
2	300 kHz TO 2.6 GHz	5.9 TO 16.1 GHz	15.1 TO 18.5 GHz
3	300 kHz TO 4.1 GHz	9.9 TO 18.5 GHz	--
4	300 kHz TO 5.6 GHz	15.9 TO 18.5 GHz	--
5	300 kHz TO 7.1 GHz	--	--
6	300 kHz TO 9.4 GHz	--	--

TRUTH TABLE

BAND	FREQUENCY (PASSBAND)	DATA-A (LSB)	DATA-B (MSB)	DATA-C (MSB)
1	2.0 TO 3.0 GHz	0	0	0
2	3.0 TO 5.0 GHz	1	0	0
3	5.0 TO 8.0 GHz	0	1	0
4	8.0 TO 11.0 GHz	1	1	0
5	11.0 TO 14.0 GHz	0	0	1
6	14.0 TO 18.5 GHz	1	0	1

PIN OUT TABLE J3

BAND	FUNCTION
1	+15 VDC
2	-15 VDC
3	GROUND
4	NO CONNECTION
5	GROUND
6	NO CONNECTION
7	DATA-C (MSB), CTL3
8	DATA-B, CTL2
9	DATA-A (LSB), CTL1

ENVIRONMENTAL RATINGS

- TEMPERATURE: -55 $^{\circ}$ C TO +85 $^{\circ}$ C (OPERATING)
-65 $^{\circ}$ C TO +125 $^{\circ}$ C (STORAGE)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

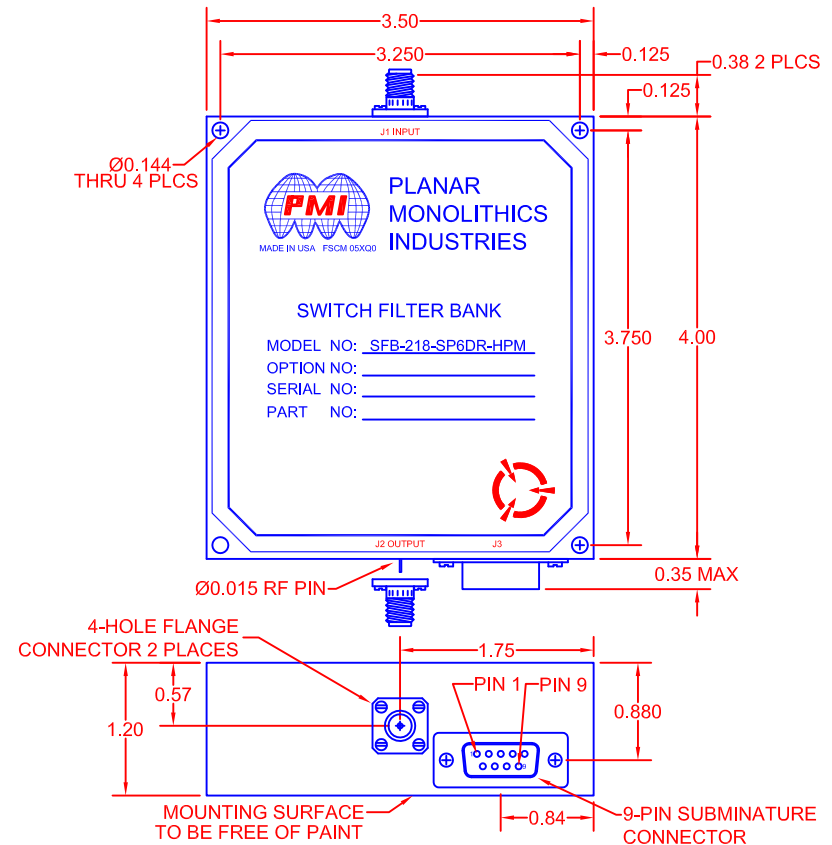
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN INCHES (mm)
TOLERANCES:
X.XX $\pm$ 0.020
X.XXX $\pm$ 0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	2/8/16	

MECHANICAL OUTLINE



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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN		M. Berry		2/8/16	
CHECKED					
ISSUED					
SIZE		FSCM NO.		DWG NO.	
A		05XQ0		PRELIMINARY	
SCALE		N:S		SHEET	
				1 OF 1	