

DESCRIPTION

PMI MODEL: 5SFB-DC26G-CD-SFF-2 IS A FIVE CHANNEL SWITCH FILTER BANK (SFB) THAT OPERATES OVER THE 100 MHz TO 26.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS FAST SWITCHING SPEEDS OF LESS THAN 500 ns WHILE MAINTAINING A MAXIMUM INSERTION LOSS OF 10 dB.

SPECIFICATIONS @ 25°C

- FREQUENCY RANGE: 100 MHz TO 26.0 GHz
- INSERTION LOSS: 10 dB MAXIMUM
- ISOLATION: 60 dB MINIMUM
- VSWR: 2.0:1 MAXIMUM UP TO 18 GHz
2.5:1 MAXIMUM FROM 18 TO 26 GHz
- IMPEDANCE: 50 Ω
- SWITCHING SPEED: 500 ns MAXIMUM
(FROM 50% TTL TO 90%/10% RF)
- POWER HANDLING: +20 dBm MAXIMUM
- LOGIC INPUT: TTL COMPATIBLE, 5 BITS DECODED
TTL HIGH = 2 V MINIMUM
TTL LOW = 0.8 V MAXIMUM
- POWER SUPPLY: +5 VDC @ 150 mA MAXIMUM
-15 VDC @ 100 mA MAXIMUM
- CONNECTORS: RF: SMA FEMALE (REMOVABLE)
CONTROL: 9-PIN MICRO-D FEMALE (SOCKET/JACK)
- SIZE: 2.70" x 3.00" x 0.75" MAXIMUM
68.58 mm x 76.20 mm x 19.05 mm MAXIMUM
- FINISH: PAINTED BLUE

FILTER CHARACTERISTICS

PARAMETER	FILTER A	FILTER B	FILTER C	FILTER D	FILTER E
PASSBAND, MINIMUM	100 MHz - 10 GHz	10 - 14 GHz	14 - 18 GHz	18 - 22 GHz	22 - 26 GHz
FILTER INSERTION LOSS	1.0 dB TYP	1.5 dB TYP	1.5 dB TYP	1.0 dB TYP	1.0 dB TYP
REJECTION, MINIMUM	30 dB @ 13.2 GHz 60 dB @ 20.0 GHz	50 dB @ 6.1 GHz 50 dB @ 18.9 GHz	50 dB @ 9.3 GHz 50 dB @ 23.0 GHz	30 dB @ 16.0 GHz 30 dB @ 24.0 GHz	30 dB @ 20.0 GHz

ENVIRONMENTAL RATINGS

- TEMPERATURE: -40 °C TO +85 °C (OPERATING)
-65 °C TO +125 °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 1: THE SFB IS DESIGNED TO MEET ALL STATED ENVIRONMENTAL SPECIFICATIONS.

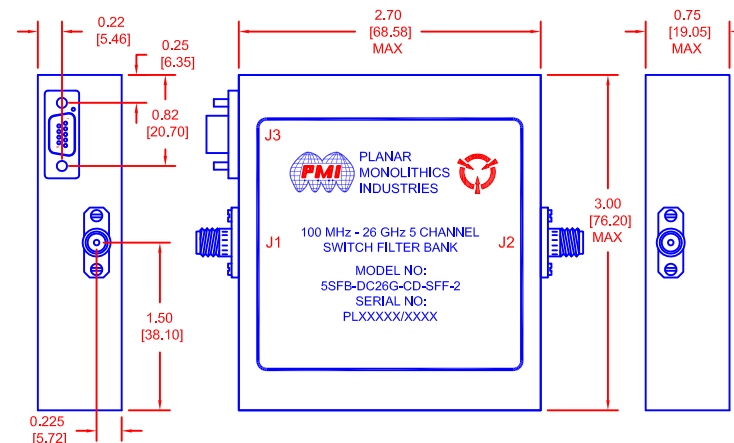
NOTE 2: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

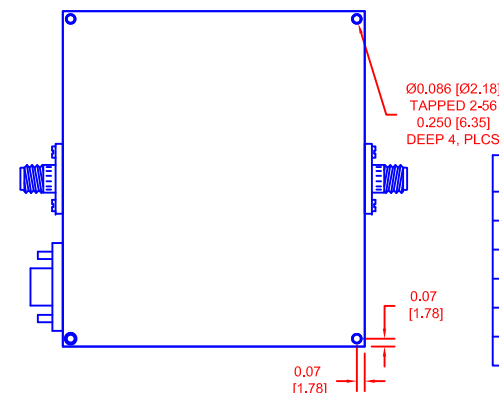
REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	02/26/18	

MECHANICAL OUTLINE



J3 PIN OUT

PIN	FUNCTION
1	+5 V
2	GND
3	-15 V
4	GND
5	TTL1
6	TTL2
7	TTL3
8	TTL4
9	TTL5



LOGIC TABLE

PIN	9	8	7	6	5
FILTER A	1	1	1	1	0
FILTER B	1	1	1	0	1
FILTER C	1	1	0	1	1
FILTER D	1	0	1	1	1
FILTER E	0	1	1	1	1

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE		PRODUCT FEATURE	
DRAWN		M. Berry		08/29/17		100 MHz to 26 GHz 5 Channel Switch Filter Bank	
REDRAWN		EMF		02/26/18		PRELIMINARY	
ISSUED						-	
SIZE		A		FSCM NO.		DWG NO.	
SCALE		N:S				SHEET	
						1 OF 1	