

DESCRIPTION

PMI MODEL: 4SFB-26G40G-CD-292FF IS A FOUR CHANNEL SWITCH FILTER BANK THAT OPERATES OVER THE 26.0 TO 40.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS FAST SWITCHING SPEEDS OF LESS THAN 100 ns WHILE MAINTAINING A MAXIMUM INSERTION LOSS OF 10 dB AND AN IN-BAND AMPLITUDE FLATNESS OF ± 1.0 dB.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 26.0 TO 40.0 GHz
- CHANNELS: ----- 4
- INPUT VSWR: ----- 1.5:1 MAXIMUM
- OUTPUT VSWR: ----- 1.5:1 MAXIMUM
- INPUT POWER: ----- +20 dBm CW MAXIMUM
- PASSBAND 1dB BANDWIDTH: ----- CHANNEL 1: 25.75 TO 29.75 GHz
CHANNEL 2: 29.25 TO 33.25 GHz
CHANNEL 3: 32.75 TO 36.75 GHz
CHANNEL 4: 36.25 TO 40.25 GHz
- LOWER STOPBAND: ----- CHANNEL 1: DC TO 24.75 GHz
(40 dB REJECTION)
CHANNEL 2: DC TO 28.25 GHz
CHANNEL 3: DC TO 31.75 GHz
CHANNEL 4: DC TO 35.75 GHz
- UPPER STOPBAND: ----- CHANNEL 1: 30.75 TO 50 GHz
(40 dB REJECTION)
CHANNEL 2: 34.25 TO 50 GHz
CHANNEL 3: 37.75 TO 50 GHz
CHANNEL 4: 41.25 TO 50 GHz
- IN-BAND AMPLITUDE FLATNESS: ----- ± 1.0 dB MAXIMUM
- INSERTION LOSS: ----- 13 dB MAXIMUM,
PATH LOSSES MATCHED
- SWITCHING SPEED: ----- 100 ns MAXIMUM
- ISOLATION: ----- 60 dB MINIMUM
- POWER SUPPLY: ----- +5 VDC @ 400 mA MAXIMUM
-12 VDC @ 400 mA MAXIMUM
- CONNECTORS: ----- RF: 2.92 mm FEMALE (REMOVABLE)
CONTROL: 9-PIN MICRO-D MALE
- SIZE: ----- ALL DIMENSIONS TBD, 3.0" x 2.0" x 0.5" GOAL

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: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

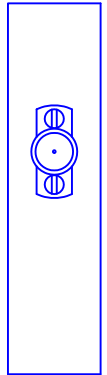
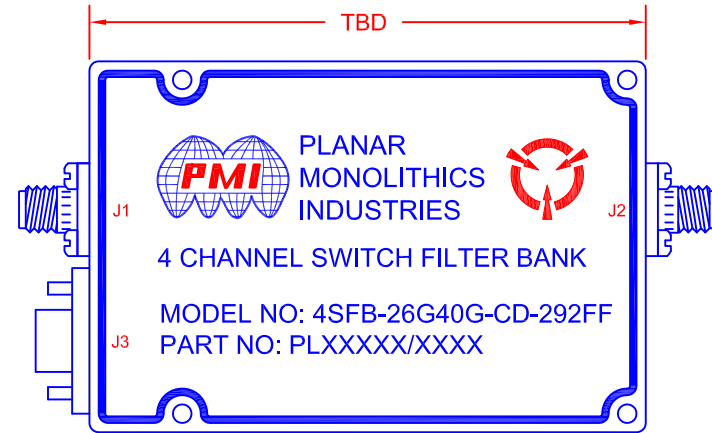
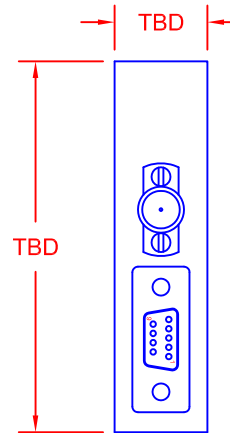
PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	04/05/16	
	1	UPDATED SPECS	06/28/16	

MECHANICAL OUTLINE

3.0" x 2.0" x 0.5" GOAL



J3 PIN OUT	
PIN	FUNCTION
1	+5V
2	GND
3	-12V
4	GND
5	N/C
6	N/C
7	N/C
8	TTL1
9	TTL2



CONTROL		
CH	TTL2	TTL1
1	0	0
2	0	1
3	1	0
4	1	1

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ISO 9001 CERTIFIED



		TITLE PRODUCT FEATURE 4SFB-26G40G-CD-292FF			
APPROVALS		DATE			
DRAWN <i>M. Berry</i>		<i>04/05/16</i>			
CHECKED					
ISSUED					