

## DESCRIPTION

PMI MODEL NUMBER: 3SFB-7R5G18G-CD-1 IS A THREE CHANNEL SWITCH FILTER BANK. THIS MODEL OPERATES OVER THE FREQUENCY RANGE OF 7.5GHZ TO 18.0GHZ. IT HAS 6.5dB INSERTION LOSS AND 55dB OF ISOLATION. THIS UNIT IS CAPABLE OF HANDLING UP TO 1 WATT (30dBm) CW MAXIMUM.

## SPECIFICATIONS

- FREQUENCY RANGE: 7.5GHz TO 18.0GHz
- INSERTION LOSS: 6.5dB TYP
- VSWR: 2.0:1 TYP
- ISOLATION: 55dB TYP
- IMPEDANCE: 50Ω
- POWER HANDLING: 1 WATT (30dBm) CW MAX
- SWITCHING SPEED: 100ns MAX
- CONTROL: TTL, 2 LINES
- POWER SUPPLY: +15VDC @ 200mA MAX  
-15VDC @ 200mA MAX
- CONNECTORS: SMA (F) REMOVABLE
- SIZE: (L) 5.0" X (W) 3.5" (H) 1.0" MAX
- FINISH: GRAY EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.

CONTROL TABLE				
CTRL1	CTRL2	PASSBAND	3dB BW	PATH
0	0	7.5 - 11 GHz	4.5 GHz	FL1
0	1	11 - 18 GHz	7.0 GHz	FL2
1	0	7.5 - 18 GHz	10.5 GHz	FL3

FILTER CHARACTERISTICS			
FILTER PATH	FL1	FL2	FL3
6.5dB TYP	OVER PASSBAND FREQUENCIES		
55dB TYP	20% FROM BAND EDGES		

## ENVIRONMENTAL RATINGS

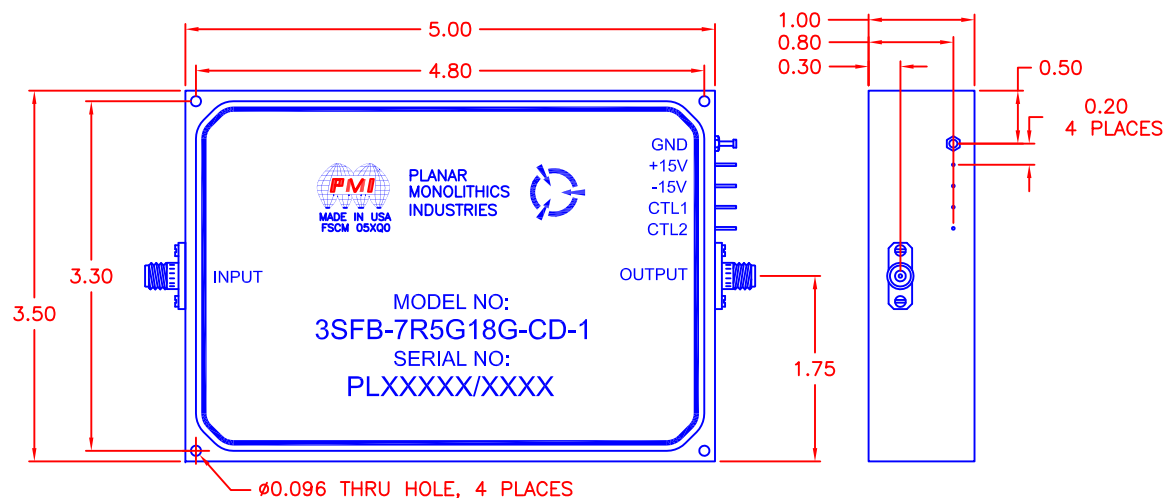
- TEMPERATURE: -40°C TO + 85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE  
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.25  
X.XXX ±0.125

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	1	ORIGINAL RELEASE	04/25/13

## MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001:2000 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN	S. PALABJO	02/13/11		PRODUCT FEATURE 3SFB-7R5G18G-CD-1			
CHECKED				SIZE	FSCM NO.	DWG NO.	REV.
ISSUED				A	05XQ0	27018801	1
				SCALE	N:S	SHEET	1 OF 1