

DESCRIPTION

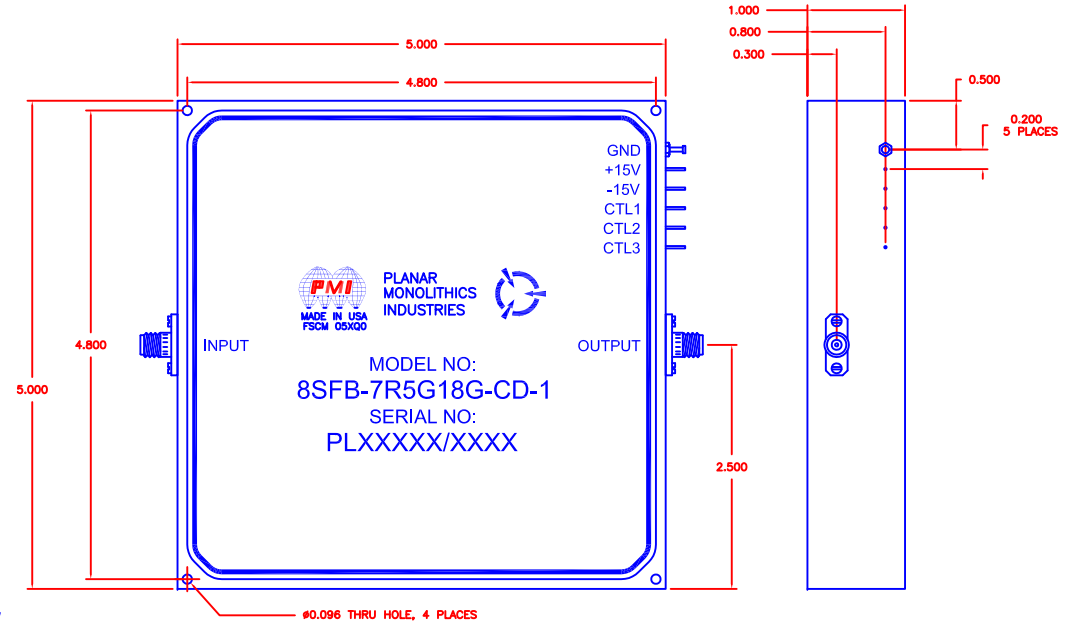
PMI MODEL NUMBER: 8SFB-7R5G18G-CD-1 IS A EIGHT CHANNEL SWITCH FILTER BANK. THIS MODEL OPERATES OVER THE FREQUENCY RANGE OF 7.5GHZ TO 18.0GHZ. IT HAS 7.5dB INSERTION LOSS AND 55dB OF ISOLATION. THIS UNIT IS CAPABLE OF HANDLING UP TO 1 WATT (30dBm) CW MAXIMUM.

SPECIFICATIONS

- FREQUENCY RANGE: 7.5GHZ TO 18.0GHZ
- INSERTION LOSS: 7.5dB TYP
- VSWR: 2.0:1 TYP
- ISOLATION: 55dB TYP
- IMPEDANCE: 50Ω
- POWER HANDLING: 1 WATT (30dBm) CW MAX
- SWITCHING SPEED: 100ns MAX
- CONTROL: TTL, 3 LINES
- POWER SUPPLY: +15VDC @ 200mA MAX
-15VDC @ 200mA MAX
- CONNECTORS: SMA (F) REMOVABLE
- SIZE: (L) 5.0" X (W) 5.0" (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.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	04/25/19	

MECHANICAL OUTLINE



CONTROL TABLE

CTRL1	CTRL2	CTRL3	PASSBAND	3dB BW	PATH
0	0	0	7.5 - 9.0 GHz	1.5 GHz	FL1
0	0	1	9.0 - 9.5 GHz	0.5 GHz	FL2
0	1	0	9.5 - 10 GHz	0.5 GHz	FL3
0	1	1	10 - 12 GHz	2.0 GHz	FL4
1	0	0	12 - 14 GHz	2.0 GHz	FL5
1	0	1	14 - 16 GHz	2.0 GHz	FL6
1	1	0	16 - 18 GHz	2.0 GHz	FL7
1	1	1	7.5 - 18 GHz	10.5 GHz	FL8

FILTER CHARACTERISTICS

FILTER PATH	FL1	FL2	FL3	FL4	FL5	FL6	FL7	FL8
7.5dB TYP	OVER PASSBAND FREQUENCIES							
55dB TYP	20% FROM BAND EDGES							

PMI CONFIDENTIAL AND PROPRIETARY

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 ISO 9001 CERTIFIED



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

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

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

APPROVALS		DATE	TITLE			
DRAWN	S. PALAJO	02/19/11	PRODUCT FEATURE 8SFB-7R5G18G-CD-1			
CHECKED			SIZE	FSCM NO.	DWG NO.	REV.
ISSUED			A	05XQ0	27018781	1
			SCALE	N:S		SHEET 1 OF 1