

DESCRIPTION

PMI MODEL NUMBER: 5SFB-118-CD-SFF IS A FIVE CHANNEL SWITCH FILTER BANK. THIS MODEL OPERATES OVER THE FREQUENCY RANGE OF 1.0 GHz TO 18.0 GHz. IT HAS 10dB GAIN AND 60dB OF ISOLATION.

SPECIFICATIONS

- FREQUENCY RANGE: _____ 1.0 GHz TO 18.0 GHz
- GAIN: _____ 20dB +/-1.5dB (ALL CHANNELS)
- PASSBAND IL RIPPLE: _____ 2.0dB MAX (PER CHANNEL)
- AMPLITUDE MATCHING: _____ +/- 1.5 dB GOAL (SET OF 5 UNITS)
- INPUT P1dB: _____ 10dBm MIN
- IIP3: _____ 22dBm GOAL
- VSWR: _____ 2.0:1 MAX
- ISOLATION: _____ 60dB MIN
- IMPEDANCE: _____ 50Ω
- POWER HANDLING: _____ 0.5 WATT (27dBm) CW MAX
- SWITCHING SPEED: _____ 200ns MAX
- SWITCHING SPIKES: _____ >-65 dBm below o/p noise floor (GOAL)
- CONTROL: _____ TTL, 5 LINES
- POWER SUPPLY: _____ +12VDC @ 800mA TYP
 _____ -12VDC @ 200mA TYP
- CONNECTORS: _____ SMA (F) / 15 PIN MICRO-D
- SIZE: _____ (L) 7.85" X (W) 5.15" (H) 0.78" MAX
- FINISH: _____ BLUE EPOXY POLIMIDE COATING IAW
 MIL-C-22750, TYPE I OVER EPOXY
 POLIMIDE PRIMER IAW MIL-P-23377,
 TYPE I, CLASS 1 OR 3.

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	11/9/20	
	1	UPDATES PER CUSTOMER	11/25/20	

CONTROL TABLE							
CTRL5	CTRL4	CTRL3	CTRL2	CTRL1	PASSBAND	LOWER REJECTION (GHz)	UPPER REJECTION (GHz)
1	1	1	1	0	1.0 - 2.2 GHz	DC-0.85 GHz ≤ -60dB	2.53-18 GHz ≤ -60dB
1	1	1	0	1	2.2 - 4.0 GHz	DC-1.87 GHz ≤ -60dB	4.6-18 GHz ≤ -60dB
1	1	0	1	0	4.0 - 6.0 GHz	DC-3.4 GHz ≤ -60dB	6.6-18 GHz ≤ -60dB
1	0	1	1	1	6.0 - 10.0 GHz	DC-5.4 GHz ≤ -60dB	11-18 GHz ≤ -60dB
0	1	1	1	1	10.0 - 18.0 GHz	DC-9.0 GHz ≤ -40dB	18.5-20 GHz ≤ -40dB

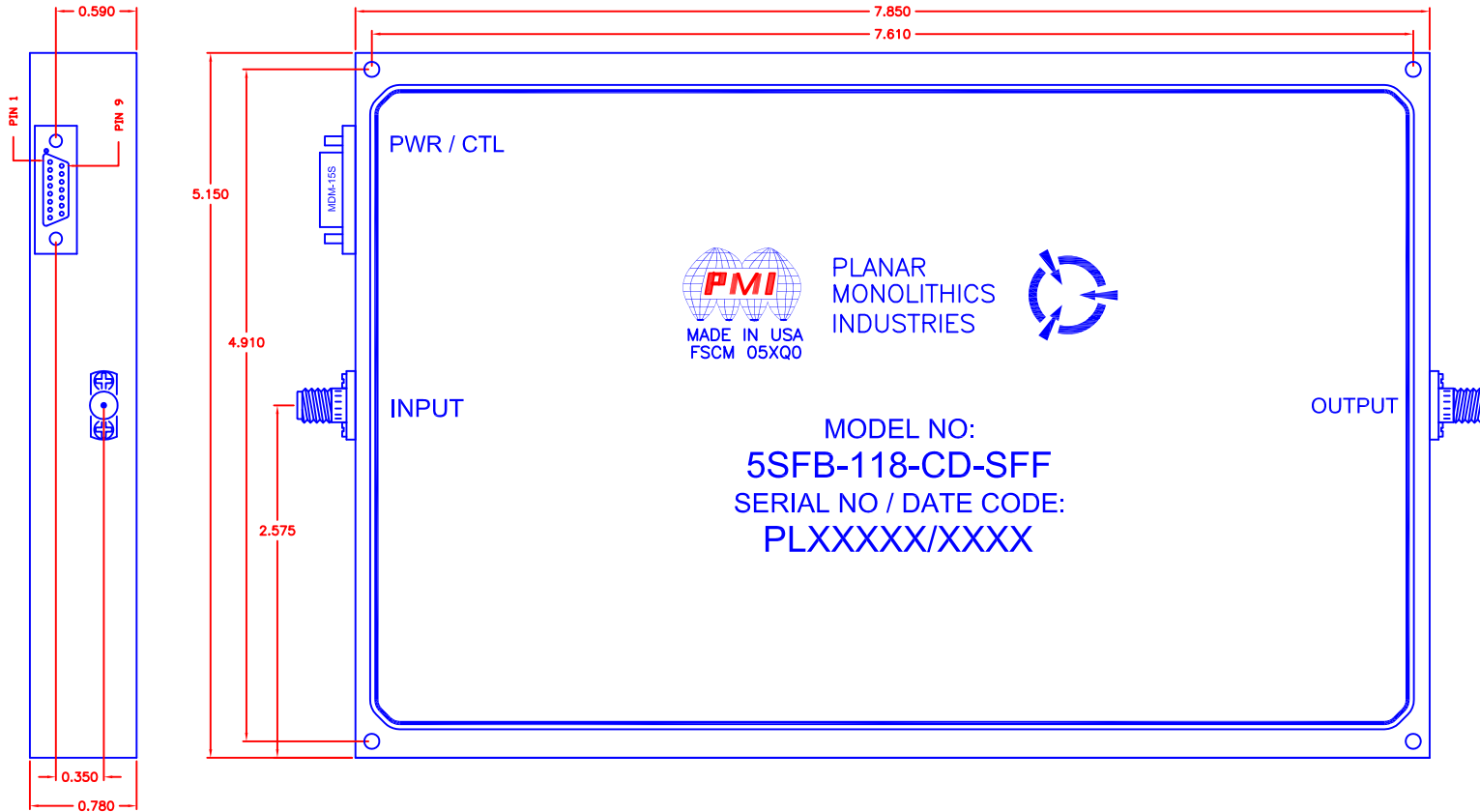
PMI CONFIDENTIAL AND PROPRIETARY

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 WEBSITE: www.pmi-rf.com
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 ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE	
DRAWN	<i>S. PALACIO</i>	11/9/20	PRODUCT FEATURE 5SFB-118-CD-SFF	
CHECKED			SIZE	FSCM NO.
			A	05XQ0
			DWG NO.	PRELIMINARY
ISSUED			SCALE	N:S
			SHEET	1 OF 2
			REV.	1

MECHANICAL OUTLINE



15 PIN CONNECTOR	
NUMBER	DEFINITION
1	+12 VDC
2	GND
3	-12 VDC
4	C1
5	C2
6	C3
7	C4
8	C5
9 - 15	N/C

MODEL NO:
5SFB-118-CD-SFF
 SERIAL NO / DATE CODE:
PLXXXXX/XXXX

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APPROVALS		DATE	TITLE			
DRAWN <i>S. PALACIO</i>		11/9/20	PRODUCT FEATURE 5SFB-118-CD-SFF			
CHECKED						
ISSUED						
SIZE	FSCM NO.	DWG NO.	REV.			
A	05XQ0	PRELIMINARY	1			
SCALE N:S			SHEET		2 OF 2	