

DESCRIPTION:

PMI MODEL 2SFB3000-6G-CD-SFF IS AN TWO CHANNEL SWITCHED FILTER BANK WITH INTEGRAL CMOS DRIVER. OFFERING FAST SWITCH SPEED & HIGH REJECTION WITH LOW LOSS.

SPECIFICATIONS:

- FREQUENCY RANGE: -1060 MHz TO 1940 MHz
- INSERTION LOSS: -7 dB MAX INCLUDING RIPPLE
- ISOLATION:-60 dB MIN.
- VSWR:-2.0:1 MAX OVER 80% OF THE 3 dB BANDWIDTH.
- IMPEDANCE:-50 OHMS
- SWITCHING SPEED: -50 ms MAX.
- CONTROL: -1 LINE, 5V CMOS
LOGIC "0" FILTER 1
LOGIC "1" FILTER 2
- THIRD ORDER INTERCEPT, INPUT: -+30 dBm MIN., TEST CONDITION
F1 = 1.099998 GHz @ 0 dBm
F2 = 1.100002 GHz @ 0 dBm
FILTER 2 IS SELECTED
- POWER SUPPLY: -+5V @ 70 mA MAXIMUM
-5V @ 70 mA MAXIMUM
- CONNECTOR: -SMA FEMALE (REMOVABLE)
- SIZE: -2.70" (W) X 4.50" (L) X 0.44" (H)
- WEIGHT: -6 OUNCES TYPICAL
- FINISH: -GREY EPOXY PAINT

FILTER CHARACTERISTICS			
PARAMETER	FL1	FL2	UNITS
CENTER FREQUENCY	1900 +/-5MHz	1100 +/-3MHz	MHz
PASSBAND	1868 TO 1932	1068 TO 1132	dB
PASSBAND RIPPLE	± .5 MAX	± .5 MAX	dB
3 dB BANDWIDTH	1860 TO 1940	1060 TO 1140	MHz
-60 dB	2015 TO 6000	1215 TO 6000	MHz
-60 dB	0 TO 1785	0 TO 985	MHz
GROUP DELAY	6 NS OVER 80% OF 3 dB PASSBAND	6 NS OVER 80% OF 3 dB PASSBAND	

ENVIRONMENTAL RATINGS:

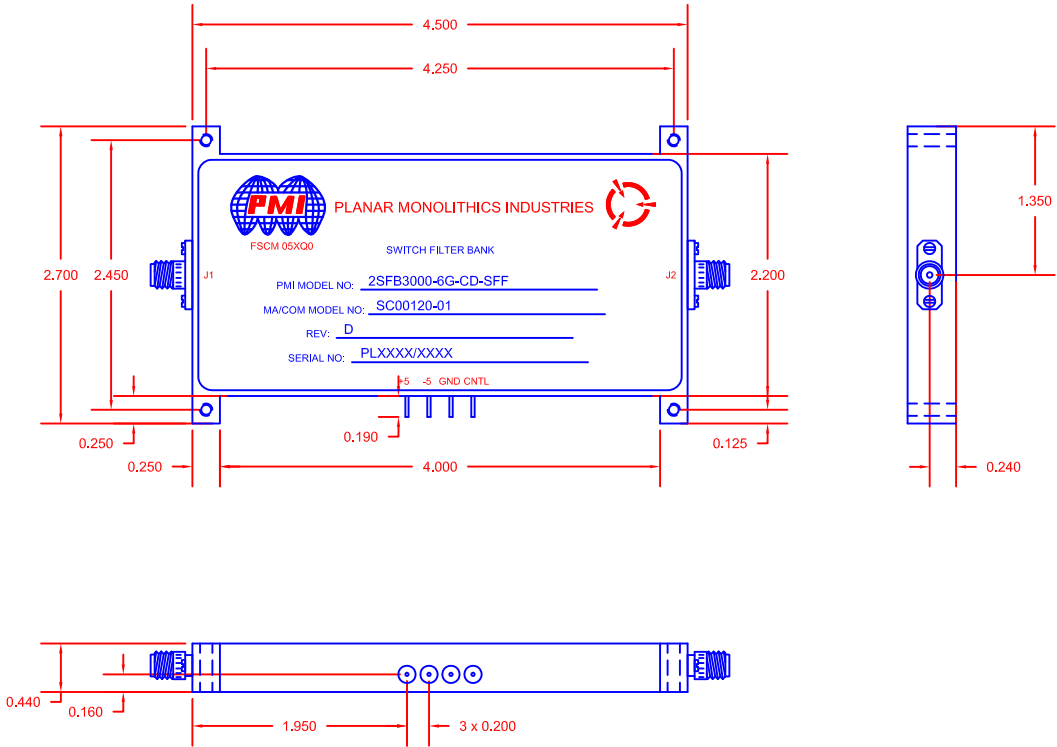
- TEMPERATURE: -0°C TO +60°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: -MIL-STD-202F, METHOD 103B COND. B
- SHOCK: -MIL-STD-202F, METHOD 213B COND. B
- VIBRATION: -MIL-STD-202F, METHOD 204D COND. B
- ALTITUDE: -MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: -MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:

X.XX ±0.020
X.XXX ±0.010

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
	A	ORIGINAL RELEASE	8/11/09



LOGIC TABLE		
CONTROL	0	FILTER 1
PIN	1	FILTER 2

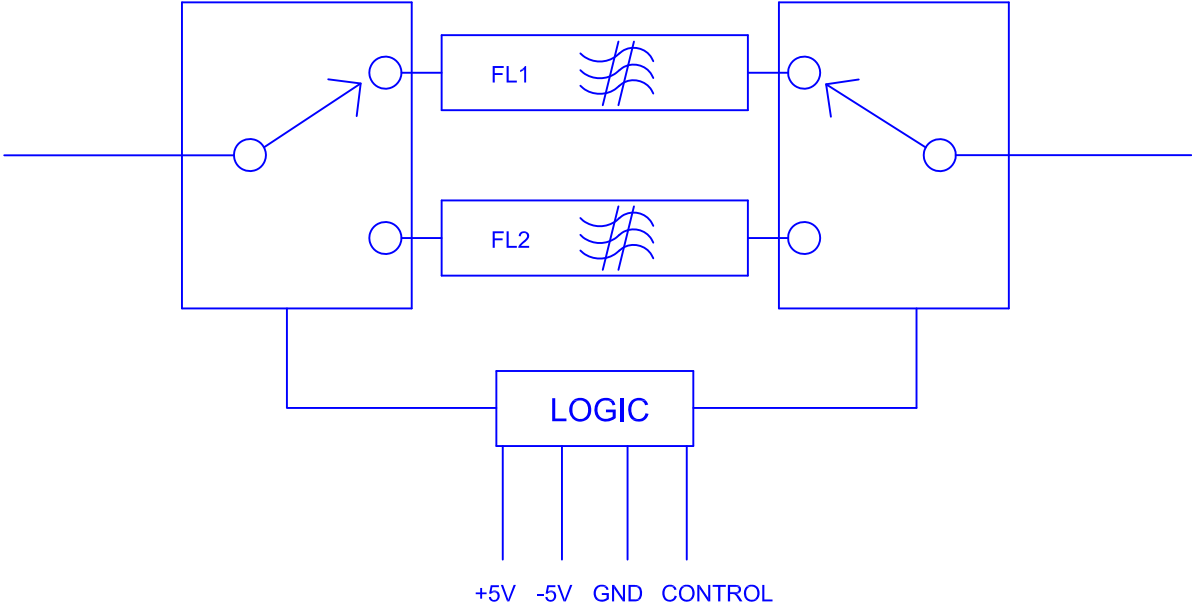
PART NO.		PMI PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND	
APPROVALS	DATE	TITLE	
DRAWN S. PALACIO	8/11/09	OUTLINE DRAWING 2SFB3000-6G-CD-SFF SWITCHED FILTER BANK	
CHECKED			
ISSUED			
SIZE A	FSCM NO. 05XQ0	DWG NO. 27011161	REV. A
SCALE		SHEET	1 of 2

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	ORIGINAL RELEASE	8/11/09	

DESCRIPTION:

PFC MODEL 2SFB3000-6G-CD-SFF IS AN TWO CHANNEL SWITCHED FILTER BANK WITH INTEGRAL TTL DRIVER.

FUNCTIONAL BLOCK DIAGRAM



PART NO.		 PLANAR MONOLITHICS INDUSTRIES FREDERICK, MARYLAND		
APPROVALS		DATE	TITLE OUTLINE DRAWING 2SFB3000-6G-CD-SFF SWITCHED FILTER BANK	
DRAWN		8/11/09		
S. PALACIO				
CHECKED				
ISSUED			SIZE A	FSCM NO. 05XQ0
			DWG NO. 27011161	
			SCALE	SHEET 2 of 2