

**DESCRIPTION:**

PFC MODEL SFB4200-5200-6-SS OPTION MECTRON 2 IS A SIX CHANNEL SWITCHED FILTER BANK WITH INTEGRAL TTL DRIVER.

**SPECIFICATIONS:**

- FREQUENCY RANGE: . . . . . 800 MHz - 6000 MHz
- INSERTION LOSS: . . . . . .5dB DESIGN GOAL, 6.5dB MAX.
- SPECIFICATIONS:

Channel	Passband		REJECTION	
	F. LDW MHz	F. HIGH MHz	Low Side -60dB goal -50 dB max. (GHz)	High Side -60dB goal -50 dB max. (GHz)
CHANNEL 1	800	1400	DC TO 500	1.6 TO 3.3
CHANNEL 2	1400	2400	0.2 TO 0.7	2.8 TO 5.7
CHANNEL 3	2400	2700	0.8 TO 2.1	3.1 TO 7.56
CHANNEL 4	2700	3500	0.8 TO 2.4	3.9 TO 9.3
CHANNEL 5	3500	4200	0.8 TO 3.2	4.8 TO 11.55
CHANNEL 6	4200	6000	0.8 TO 3.9	6.9 TO 15.1

- ISOLATION: . . . . . 60 dB CHANNEL TO CHANNEL
- VSWR: . . . . . 2.0:1 Min.
- SWITCHING SPEED: . . . . . 100 ns MAX.
- CONTROL: . . . . . TTL 3 BIT CONTROL
- RF POWER RATING: . . . . . 30 dBm CW MAX.
- POWER SUPPLY: . . . . . +5V @ 600mA MAX.  
-12V @ 100mA MAX.
- CONNECTOR: SMA FEMALE
- SIZE: . . . . . 5.0"(L) x 3.75"(W) x 0.75"(H)
- WEIGHT: . . . . . 15 OUNCES MAXIMUM

LOGIC TABLE

Channel	INPUT		
	E1	E2	E3
CHANNEL 1	H	H	H
CHANNEL 2	H	H	L
CHANNEL 3	H	L	H
CHANNEL 4	H	L	L
CHANNEL 5	L	H	H
CHANNEL 6	L	H	L

PIN OUT TABLE J1

PIN	Signal
1	+5V
2	GND
3	-12V TO -15V
4	E1
5	E2
6	E3
7	NA
8	NA
9	NA

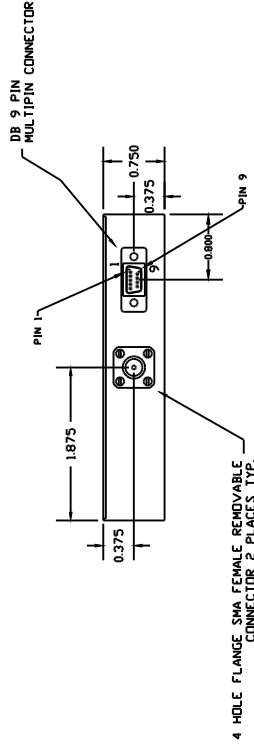
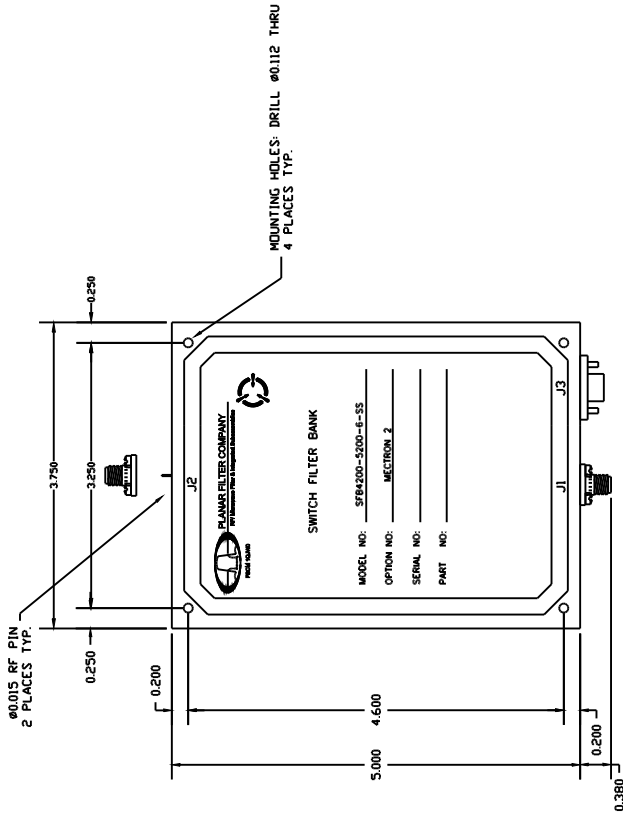
N/C = NO CONNECTION

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE: . . . . . -40°C TO +70°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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	12/5/99	



PART NO.		DATE	
WHS		12/5/99	
CHECKED			
ISSUED			
SIZE	FSCM NO.	DWG NO.	REV.
A	OZXXZ8	155-0037	-
SCALE		SHEET	
N/A		1 OF 1	

**Planar Filter Company**  
7311G Grove Road, Fredrick, Maryland

OUTLINE DRAWING  
SFB4200-5200-6-SS