

**DESCRIPTION:**

PFC MODEL 12SFB8D1G-15D8G-CD-SFF IS A 12 CHANNEL SWITCHED FILTER BANK WITH INTEGRAL TTL DRIVER. 12SFB8D1G-15D8G-CD-SFF OFFERS A MIX OF LUMPED & COMBLINE FILTERS THAT COVERS A MULTIOCTIVE BAND

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	ORIGINAL RELEASE	6/5/01	

**SPECIFICATIONS:**

- FREQUENCY RANGE: . . . . . 200 MHz - 16000 MHz
- INSERTION LOSS: . . . . . -5dB
- FILTER SPECIFICATIONS:

PASSBAND			
	F0 MHz	3 dB BANDWIDTH MHz	REJECTION
CHANNEL 1	200	66	5 POLE RESPONSE
CHANNEL 2	200	66	5 POLE RESPONSE
CHANNEL 3	500	165	5 POLE RESPONSE
CHANNEL 4	500	165	5 POLE RESPONSE
CHANNEL 5	800	264	5 POLE RESPONSE
CHANNEL 6	800	264	5 POLE RESPONSE
CHANNEL 7	4000	1320	5 POLE RESPONSE
CHANNEL 8	4000	1320	5 POLE RESPONSE
CHANNEL 9	10000	3300	5 POLE RESPONSE
CHANNEL 10	10000	3300	5 POLE RESPONSE
CHANNEL 11	16000	5200	5 POLE RESPONSE
CHANNEL 12	16000	5200	5 POLE RESPONSE

- ISOLATION: . . . . . -60 MAX. / -80 DESIGN GOAL
- VSWR: . . . . . 2.0:1 Min.
- SWITCHING SPEED: . . . . . 100 ns MAX.
- CONTROL: . . . . . TTL 4 BIT CONTROL
- RF POWER RATING: . . . . . 30 dBm CW MAX.
- POWER SUPPLY: . . . . . +5V @ 330mA MAX.  
-5V @ 30mA MAX.
- CONNECTOR: . . . . . SMA FEMALE
- SIZE: . . . . . 7.00"(L) x 3.00"(W) x 0.75"(H)
- WEIGHT: . . . . . 15 OUNCES MAXIMUM

LOGIC TABLE				
	INPUT			
	E1	E2	E3	E4
CHANNEL 1	0	0	0	1
CHANNEL 2	0	0	1	0
CHANNEL 3	0	0	1	1
CHANNEL 4	0	1	0	0
CHANNEL 5	0	1	0	1
CHANNEL 6	0	1	1	0
CHANNEL 7	0	1	1	1
CHANNEL 8	1	0	0	0
CHANNEL 9	1	0	0	1
CHANNEL 10	1	0	1	0
CHANNEL 11	1	0	1	1
CHANNEL 12	1	1	0	0

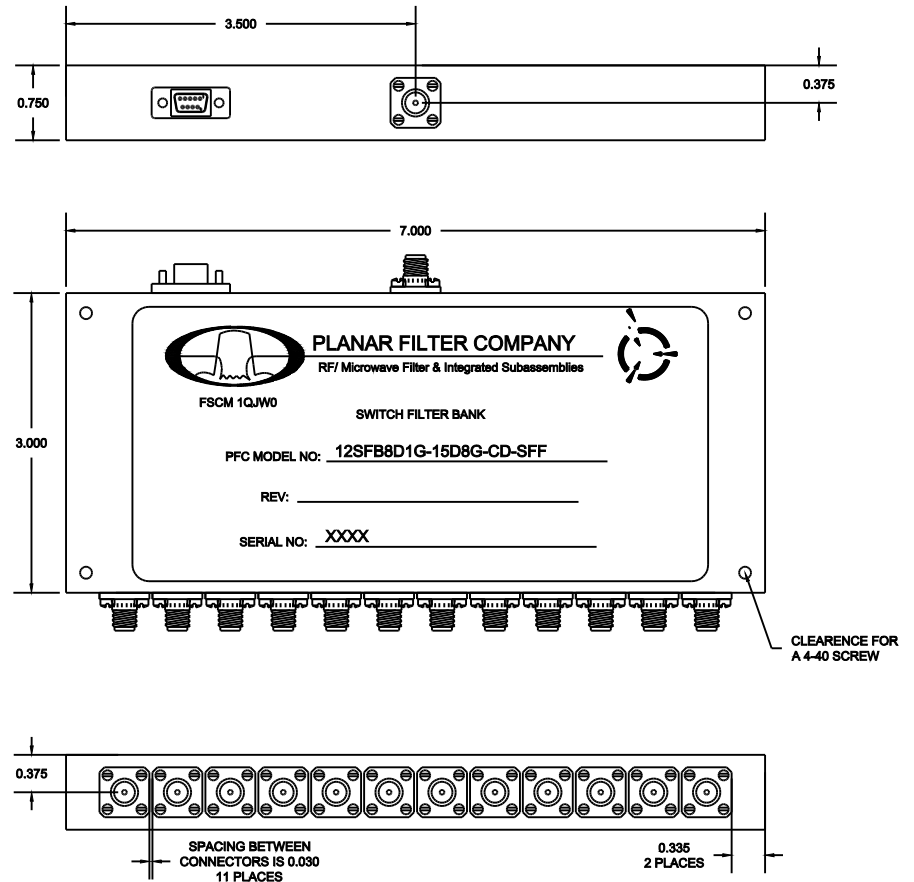
PIN OUT TABLE J1	
PIN	TO
1	+5V
2	GND
3	-5V
4	E1
5	E2
6	E3
7	E4
8	NA
9	NA

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

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
X.XX ±0.010  
X.XXX ±0.005



NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PART NO.		<b>Planar Filter Company</b> 7311G Grove Road, Fredrick, Maryland	
APPROVALS	DATE	TITLE	
DRAWN S. PALACIO	6/5/01	OUTLINE DRAWING 12SFB8D1G-15D8G-CD-SFF	
CHECKED		SIZE	FSCM NO.
ISSUED		A	1QJW0
		DWG NO.	155-0750
		SCALE	N/A
		REV.	-
		SHEET	1 OF 1