

DESCRIPTION

PMI MODEL 16SFB10G-16G-CD-SFF IS A SIXTEEN CHANNEL SWITCHED FILTER BANK COVERING THE FREQUENCY BAND FROM 2.0 TO 18.0 GHz. THIS UNIT FEATURES SOLID STATE SWITCHING AND TTL SWITCH CONTROL.

SPECIFICATIONS

- FREQUENCY RANGE: 2.0 TO 18.0 GHz
- INSERTION LOSS: CH. 1 - 6: 7.0 dB MAX
CH. 7 - 16: 13.5 dB MAX
- ISOLATION: 60 dB MIN
- VSWR (IN/OUT): 2.0:1 MAX
- SWITCH CONTROL: TTL
- IMPEDANCE: 50 OHMS
- SWITCHING SPEED: 2 US MAX
- AMPLITUDE MATCH: ± 1.5 dB MAX
- POWER HANDLING: +30 dBm MAX
- RF INPUT/OUTPUT: SMA - F
- DC SUPPLY: +5VDC @ 1500mA
-15VDC @ 260mA
- SIZE (L) 8.60" X (W) 6.00" X (H) 0.90"
- 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. PACKAGE IS NON-HERMETIC

ENVIRONMENTAL RATINGS

- TEMPERATURE: -54°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

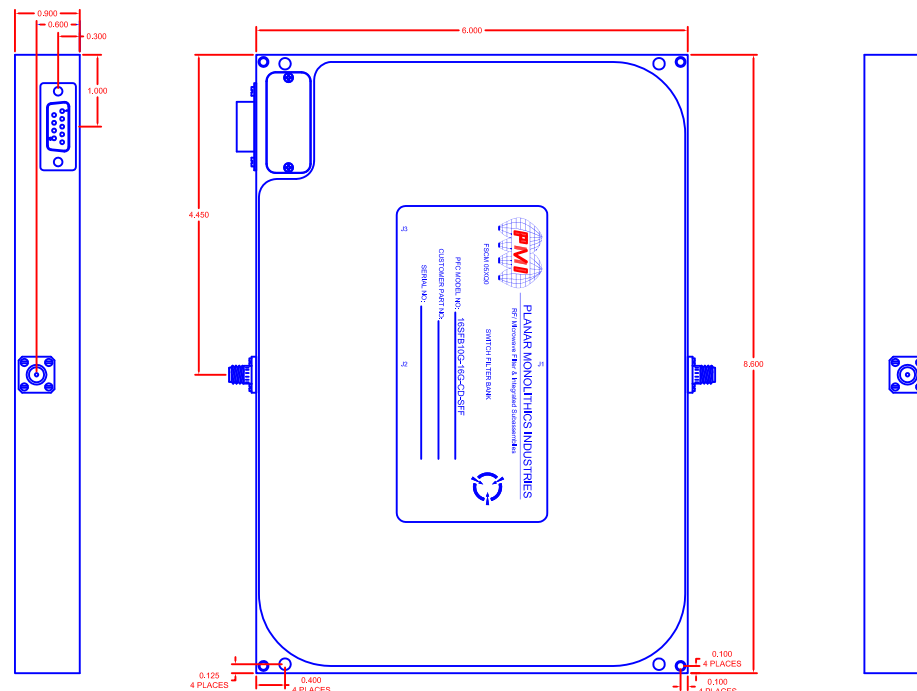
ALL DIMENSIONS ARE IN INCHES

TOLERANCES:
X.XX ± 0.020
X.XXX ± 0.010

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	XX/XX/XX	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD
FREDERICK, MARYLAND 21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
WEBSITE: www.pmi-rf.com
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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE			
DRAWN		XX/XX/XX		PRODUCT FEATURE			
CHECKED				16SFB10G-16G-CD-SFF			
ISSUED				SIZE	FSCM NO.	DWG NO.	REV.
				A	05XQ0	270XXXXX	1
				SCALE	N:S	SHEET	1 OF 2

DESCRIPTION

PMI MODEL 16SFB10G-16G-CD-SFF SPECIFICATIONS

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Filter specifications:

Channel	-3 dB point (GHz)	-3 dB point (GHz)	* dB point (GHz)	* dB point (GHz)	-65 dB rejection points (GHz)
1	1.90	3.10	2.00	3.00	3.65 - 4.85
2	2.90	4.10	3.00	4.00	4.65 - 5.85
3	3.90	5.10	4.00	5.00	5.65 - 6.85
4	4.90	6.10	5.00	6.00	6.65 - 7.85
5	5.90	7.10	6.00	7.00	7.65 - 8.85
6	6.90	8.10	7.00	8.00	8.65 - 9.85
7	7.90	9.10	8.00	9.00	9.65 - 10.85
8	8.90	10.10	9.00	10.00	10.65 - 11.85
9	9.90	11.10	10.00	11.00	11.65 - 12.85
10	10.90	12.10	11.00	12.00	12.65 - 13.85
11	11.90	13.10	12.00	13.00	13.65 - 14.85
12	12.90	14.10	13.00	14.00	14.65 - 15.85
13	13.90	15.10	14.00	15.00	15.65 - 16.85
14	14.90	16.10	15.00	16.00	16.65 - 17.85
15	15.90	17.10	16.00	17.00	14.15 - 15.35
16	16.90	18.10	17.00	18.00	15.15 - 16.35

J3 Pin Assignment:

1	E1	6	N.C.
2	E2	7	+5V
3	E3	8	GND
4	E4	9	-15V
5	N.C.		

Logic Table:

Selected Channel	E4	E3	E2	E1	Selected Channel	E4	E3	E2	E1
1	0	0	0	0	9	1	0	0	0
2	0	0	0	1	10	1	0	0	1
3	0	0	1	0	11	1	0	1	0
4	0	0	1	1	12	1	0	1	1
5	0	1	0	0	13	1	1	0	0
6	0	1	0	1	14	1	1	0	1
7	0	1	1	0	15	1	1	1	0
8	0	1	1	1	16	1	1	1	1

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