

DESCRIPTION:

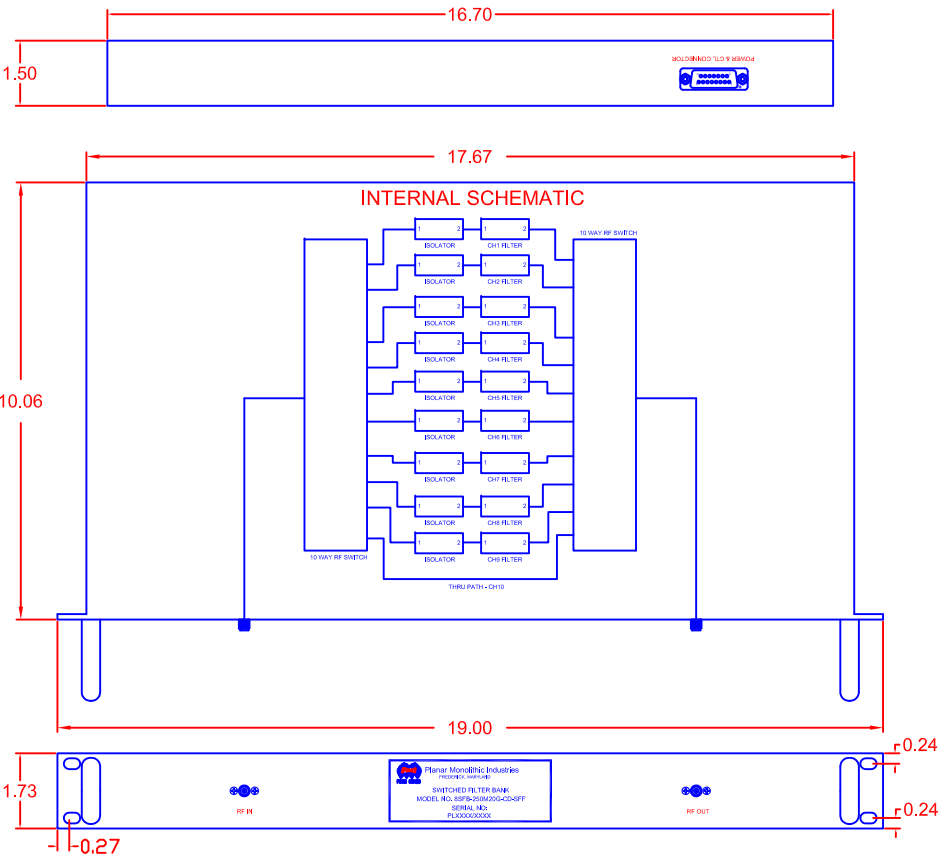
PMI MODEL 8SFB-250M20G-CD-SFF IS AN EIGHT CHANNEL SWITCHED FILTER BANK OFFERING ULTRA FAST SWITCH SPEED & HIGH REJECTION WITH LOW LOSS. EACH FILTER PATH INCLUDES A NARROW BAND ISOLATOR TO INCREASE REVERSE ISOLATION. THIS MODEL IS IDEAL FOR HARMONIC REJECTION AND IMPROVE DYNAMIC RANGE DURING LINEARITY TESTING OF ACTIVE DEVICES.

SPECIFICATIONS:

- FREQUENCY RANGE: 0.25 GHz TO 20.0 GHz
- INSERTION LOSS: 8 dB MAX. (0.25 TO 7.0 GHz)
10 dB MAX. (7.0 TO 20 GHz)
- VSWR: 2.0:1 MAX.
- SECOND HARMONIC REJECTION: 50 dBc @ +20dBm INPUT POWER
- IMPEDANCE: 50 OHMS
- SWITCHING SPEED: 100 ns TYP.
- CONTROL: TTL, "0" - ON, "1" - OFF
- POWER SUPPLY: +15VDC; 750mA Typ.
-15VDC; 100mA Typ.
- CONNECTOR: SMA FEMALE
- SIZE: 1U, 19 INCH RACK
- FINISH: BLUE POWDER COAT
ON FRONT PANEL

15 PIN CONNECTOR	
PIN #	FUNCTION
1	CH1
2	CH2
3	CH3
4	CH4
5	CH5
6	CH6
7	CH7
8	CH8
9	CH9
10	CH10
11	GND
12	+15 V
13	GND
14	-15 V
15	GND

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	—	PRELIMINARY	8/15/18	
	1	INSERTION LOSS UPDATE	8/15/18	
	2	SPEC UPDATES	8/16/18	
	3	INSERTION LOSS UPDATE	8/20/18	
	4	CTL & RF CONN PLACEMENT	8/22/28	
	5	ELECTRICAL SPECS & MECH UPDATES	8/24/18	
	A1	RELEASE TO PRODUCTION	9/27/18	



TTL CONTROL										FILTER PATH	FILTER PASSBAND (GHz)	ISOLATOR FREQ RANGE (GHz)	ISOLATOR REVERSE ISOLATION (dB) MIN	LOWER REJECTION (GHz)	UPPER REJECTION (GHz)	REJECTION LEVEL (dB) MIN
PIN 10	PIN 9	PIN 8	PIN 7	PIN 6	PIN 5	PIN 4	PIN 3	PIN 2	PIN 1							
1	1	1	1	1	1	1	1	1	0	CHANNEL 1	0.25 - 0.4	0.25 - 0.4	18	0.15	0.5 TO 20.0	50
1	1	1	1	1	1	1	1	1	0	CHANNEL 2	0.4 - 0.5	0.4 - 0.5	18	0.15 - 0.25	0.8 TO 20.0	50
1	1	1	1	1	1	1	1	0	1	CHANNEL 3	0.5 - 0.7	0.5 - 0.7	18	0.25 - 0.3	1.0 TO 20.0	50
1	1	1	1	1	1	0	1	1	1	CHANNEL 4	0.7 - 0.9	0.7 - 0.9	20	0.25 - 0.4	1.4 TO 20.0	50
1	1	1	1	1	0	1	1	1	1	CHANNEL 5	0.9 - 1.25	0.9 - 1.25	18	0.25 - 0.55	1.8 TO 20.0	50
1	1	1	1	0	1	1	1	1	1	CHANNEL 6	1.25 - 2.0	1.25 - 2.0	17	0.25 - 0.75	2.5 TO 20.0	50
1	1	1	0	1	1	1	1	1	1	CHANNEL 7	2.0 - 3.5	2.0 - 3.5	18	0.25 - 1.5	4.0 TO 20.0	50
1	1	0	1	1	1	1	1	1	1	CHANNEL 8	3.5 - 6.0	3.5 - 6.0	18	0.25 - 2.5	7.0 TO 20.0	50
1	0	1	1	1	1	1	1	1	1	CHANNEL 9	6.0 - 10.0	6.0 - 10.0	17	0.25 - 5.0	12.0 TO 20.0	50
0	1	1	1	1	1	1	1	1	1	CHANNEL 10	THRU - 0.25 - 20.0	N/A	N/A	N/A	N/A	N/A

ENVIRONMENTAL RATINGS:

- TEMPERATURE: 0°C TO +50°C (OPERATING & STORAGE)

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES
TOLERANCES:

X.XX ± 0.020
X.XXX ± 0.010

CONFIDENTIAL AND PROPRIETARY

PART NO.		PLANAR MONOLITHICS INDUSTRIES, INC.				
		 7311-F GROVE ROAD FREDERICK, MARYLAND 21704 USA TEL: 301-662-5019 FAX: 301-662-1731 WEBSITE: www.pmi-ri.com E-MAIL: sales@pmi-ri.com ISO 9001:2008 CERTIFIED				
APPROVALS	DATE	TITLE OUTLINE DRAWING 8SF B-250M20G-CD-SFF SWITCHED FILTER BANK				
DRAWN	NJA					9/27/18
CHECKED						
ISSUED						
		SIZE	FSCM NO.	DWG NO.	REV.	
		A	05XQ0	27035740	A1	
		SCALE			SHEET 1 of 1	