

DESCRIPTION

PMI MODEL: 8SFB-7R0G7R8G-CD-12-SFF IS AN EIGHT CHANNEL SWITCHED FILTER BANK OFFERING ULTRA FAST SWITCHING SPEED AND HIGH REJECTION WITH LOW LOSS.

SPECIFICATIONS

- FREQUENCY RANGE: 7.0 TO 7.8 GHz
- IMPEDANCE: 50 Ω
- INSERTION LOSS: 9.0 dB MAXIMUM @ CENTER FREQUENCIES
12.0 dB MAXIMUM @ C.F. $\pm$ 25 MHz
- GAIN FLATNESS: $\pm$ 2.5 dB MAXIMUM BETWEEN CHANNELS
- NOISE FIGURE: 9 dB MAXIMUM @ CENTER FREQUENCIES
- INPUT VSWR: 2.0:1 MAXIMUM
- OUTPUT VSWR: 2.0:1 MAXIMUM
- DC SUPPLIES: +5 VDC
+12 VDC
-12 VDC
- SWITCHING SPEED: 200 ns MAXIMUM
50 ns TYPICAL (50% TTL TO 10%/90% RF)
- MAXIMUM INPUT POWER: 1 WATT CW MAXIMUM
- CONNECTORS: RF: SMA FEMALE
DC & CONTROL: 15 PIN MICRO-D (MALE)
- WEIGHT: 300 $\pm$ 50 g [10.6 $\pm$ 1.7 oz] GOAL
- SIZE: 100 mm GOAL x 90 mm GOAL x 15 mm MAXIMUM
3.94" GOAL x 3.54" GOAL x 0.59" MAXIMUM
- 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.

ENVIRONMENTAL RATINGS

- TEMPERATURE: -54 °C TO +125 °C (OPERATING)
- HUMIDITY: MIL-STD-202, METHOD 103B COND. B
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

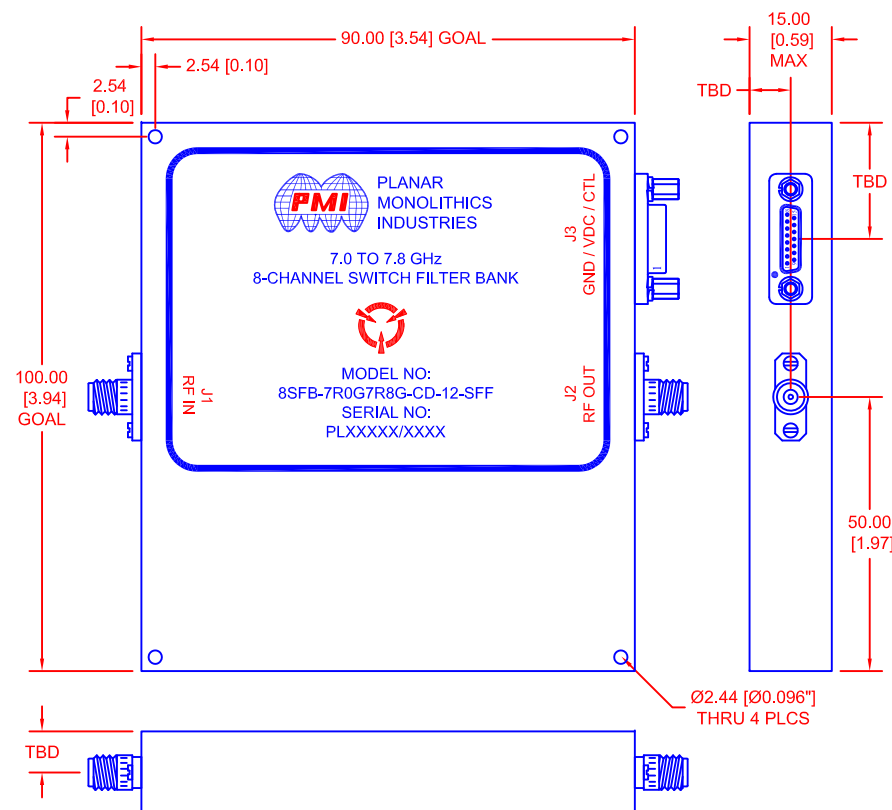
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X.XX $\pm$ 0.508 [0.020]
X.XXX $\pm$ 0.254 [0.010]

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	09/21/16	

MECHANICAL OUTLINE



PLANAR MONOLITHICS INDUSTRIES, INC.

7311-F GROVE ROAD

FREDERICK, MARYLAND 21704 USA

TEL: (301)-662-5019, FAX: (301)-662-1731

WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com

ISO 9001 CERTIFIED



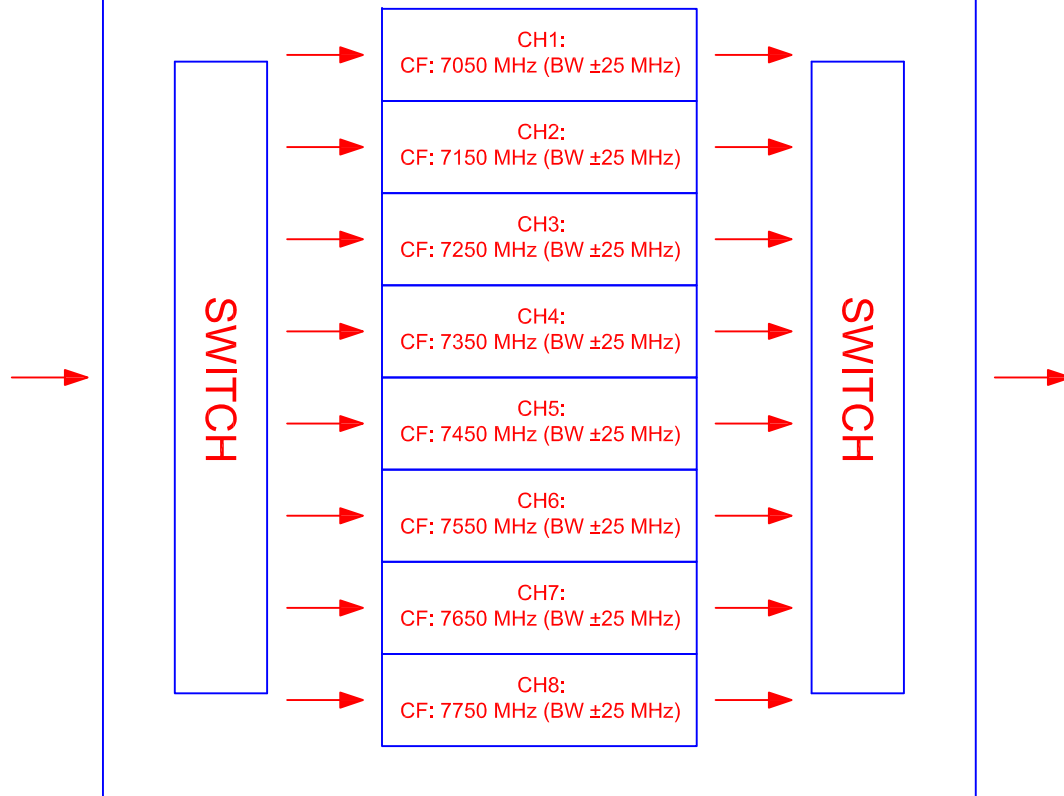
APPROVALS		DATE		TITLE		REV.	
DRAWN		M. Berry		09/21/16		PRODUCT FEATURE	
CHECKED						8SFB-7R0G7R8G-CD-12-SFF	
ISSUED						7.0 to 7.8 GHz 8-Channel Switch Filter Bank	
SIZE		FSCM NO.		DWG NO.		REV.	
A		05XQ0		PRELIMINARY		-	
SCALE		N:S		SHEET		1 OF 2	

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FUNCTIONAL BLOCK DIAGRAM

J3 CONNECTOR DETAIL

PIN	FUNCTION
1	CTL 1
2	CTL 2
3	CTL 3
4	CTL 4
5	CTL 5
6	CTL 6
7	CTL 7
8	CTL 8
9	GND
10	+5 VDC
11	GND
12	+12 VDC
13	GND
14	-12 VDC
15	GND

LOGIC TABLE

	FILTER 1	FILTER 2	FILTER 3	FILTER 4	FILTER 5	FILTER 6	FILTER 7	FILTER 8
TTL CONTROL 1	1	0	0	0	0	0	0	0
TTL CONTROL 2	0	1	0	0	0	0	0	0
TTL CONTROL 3	0	0	1	0	0	0	0	0
TTL CONTROL 4	0	0	0	1	0	0	0	0
TTL CONTROL 5	0	0	0	0	1	0	0	0
TTL CONTROL 6	0	0	0	0	0	1	0	0
TTL CONTROL 7	0	0	0	0	0	0	1	0
TTL CONTROL 8	0	0	0	0	0	0	0	1

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DRAWN <i>M. Berry</i>		09/21/16	PRODUCT FEATURE 8SFB-7R0G7R8G-CD-12-SFF 7.0 to 7.8 GHz 8-Channel Switch Filter Bank			
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY	REV. -
ISSUED			SCALE N:S	SHEET 2 OF 2		