

DESCRIPTION

PMI MODEL: 6SFB-55185-SMA IS A SIX CHANNEL SWITCH FILTER BANK (SFB) THAT OPERATES OVER THE 5.5 GHz TO 18.5 GHz FREQUENCY RANGE. THIS MODEL OFFERS FAST SWITCHING SPEEDS OF 200 ns.

SPECIFICATIONS

- FREQUENCY RANGE: ----- 5.5 GHz TO 18.5 GHz
- VSWR: ----- 1.7:1 TYPICAL / 2.0:1 MAXIMUM
- SWITCHING SPEED: ----- 200 ns MAXIMUM
- INSERTION LOSS: ----- 4.0 dB TYPICAL / 6.0 MAXIMUM
- POWER SUPPLY: ----- +5 VDC @ 550 mA MAXIMUM
----- -5 VDC @ 100 mA MAXIMUM
- INPUT POWER: ----- 1W MAXIMUM
- RIPPLE - 1GHz BANDWIDTH: ----- 1 dB
- CHANNEL ISOLATION: ----- 50 dB
- IMPEDANCE: ----- 50 OHMS
- RF CONNECTORS: ----- SMA Female
- SIZE: ----- 3.55" x 3.15" x 1.10"
- FINISH: ----- Nickel Plated
- Weight ----- 19.4oz/ 550g

FILTER CHARACTERISTICS						
PARAMETER	Channel 1	Channel 2	Channel 3	Channel 4	Channel 5	Channel 6
PASSBAND	5.5 - 7.5 GHz	6.5 - 9.7 GHz	8.7 - 11.8 GHz	10.8 - 14.5 GHz	13.5 - 16.2 GHz	15.2 - 18.5 GHz
Lower Rejection	DC-3.2≤-30dB 3.2-4.8≤-10dB	DC-4.7≤-30dB 4.7-5.5≤-10dB	DC-4.8≤-30dB 4.8-7.6≤-10dB	DC-5≤-30dB 5-10≤-10dB	DC-4.5≤-30dB 4.5-12≤-10dB	DC-13≤-60dB
Upper Rejection	8.7-16.7≤-60dB 16.7-18≤-30dB	10.5≤-10dB 11.2-20≤-60dB	13≤-10dB 13.5-20≤-60dB	15.8-24≤-60dB	16.8≤-10dB 18-24≤-60dB	19.5-20≤-10dB 20-24≤-30dB

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -45 °C TO +85 °C (OPERATING)
----- -55 °C TO +125 °C (STORAGE)
- HUMIDITY: ----- 5 to 85%
- SHOCK: ----- 50G, ½ Sine, 11msec
- VIBRATION: ----- 10G RMS, 20-2000H

LOGIC TABLE			
PIN	C3	C2	C1
Channel 1	0	0	0
Channel 2	0	0	1
Channel 3	0	1	0
Channel 4	0	1	1
Channel 5	1	0	0
Channel 6	1	0	1

ALL DIMENSIONS
ARE IN INCHES [mm]
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

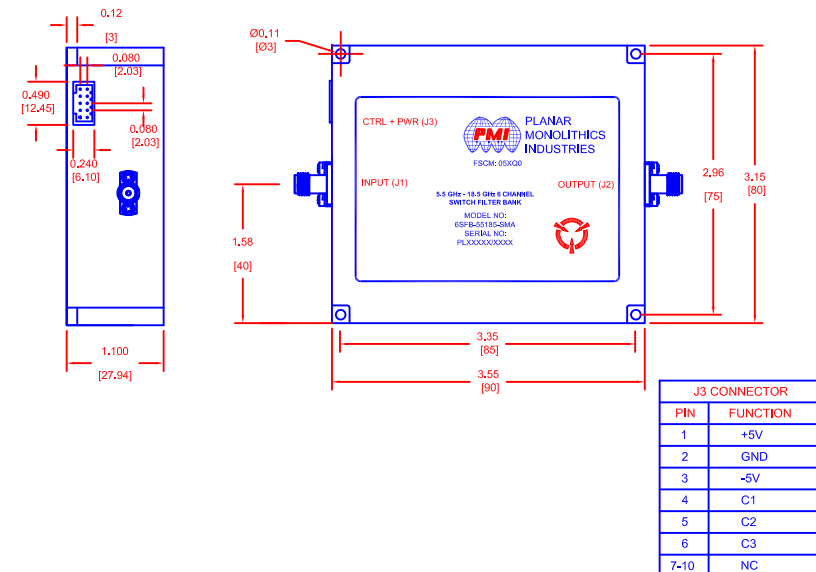
NOTE 1: THE SFB IS DESIGNED TO MEET ALL STATED ENVIRONMENTAL SPECIFICATIONS.

NOTE 2: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	9/31/21	
	A2	ECN # 22-0040	9/18/22	

MECHANICAL OUTLINE



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APPROVALS		DATE	TITLE		
DRAWN <i>AF</i>		9/31/21	PRODUCT FEATURE 6SFB-55185-SMA 5.5 GHz TO 18.5 GHz SIX CHANNEL SWITCH FILTER BANK		
REDRAWN			SIZE A	FSCM NO. 05XQ0	DWG NO. 27043820
ISSUED			SCALE N:S	REV. A2	
				SHEET 1 OF 1	