

PMI MODEL: 5SFB-DC26G-CD-SFF IS A FIVE CHANNEL SWITCH FILTER BANK (SFB) THAT OPERATES OVER THE 100 MHz TO 26.0 GHz FREQUENCY RANGE. THIS MODEL OFFERS FAST SWITCHING SPEEDS OF LESS THAN 500 ns WHILE MAINTAINING A MAXIMUM INSERTION LOSS OF 10 dB.

- FREQUENCY RANGE: ----- 100 MHz TO 26.0 GHz
- INSERTION LOSS: ----- 10 dB MAXIMUM
- ISOLATION: ----- 60 dB MINIMUM
- VSWR: ----- 2.0:1 MAXIMUM UP TO 18 GHz
2.5:1 MAXIMUM FROM 18 TO 26 GHz
- IMPEDANCE: ----- 50 Ω
- SWITCHING SPEED: ----- 500 ns MAXIMUM
(FROM 50% TTL TO 90%/10% RF)
- POWER HANDLING: ----- +20 dBm MAXIMUM
- LOGIC INPUT: ----- TTL COMPATIBLE, 5 BITS DECODED
TTL HIGH = 2 V MINIMUM
TTL LOW = 0.8 V MAXIMUM
- POWER SUPPLY: ----- +5 VDC @ 150 mA MAXIMUM
-15 VDC @ 100 mA MAXIMUM
- CONNECTORS: ----- RF: SMA FEMALE (REMOVABLE)
CONTROL: 9-PIN MICRO-D FEMALE (SOCKET/JACK)
- SIZE: ----- 2.70" x 3.00" x 0.75" MAXIMUM
68.58 mm x 76.20 mm x 19.05 mm MAXIMUM
- FINISH: ----- PAINTED BLUE

FILTER CHARACTERISTICS					
PARAMETER	FILTER A	FILTER B	FILTER C	FILTER D	FILTER E
PASSBAND, MINIMUM	100 MHz - 10 GHz	10 - 14 GHz	14 - 18 GHz	18 - 22 GHz	20 - 26 GHz
FILTER INSERTION LOSS	1.0 dB TYP	1.5 dB TYP	1.5 dB TYP	1.0 dB TYP	1.0 dB TYP
REJECTION, MINIMUM	30 dB @ 13.2 GHz 60 dB @ 20.0 GHz	50 dB @ 6.1 GHz 50 dB @ 18.9 GHz	50 dB @ 9.3 GHz 50 dB @ 23.0 GHz	30 dB @ 16.0 GHz 30 dB @ 24.0 GHz	30 dB @ 18.0 GHz

- TEMPERATURE: ----- -40 °C TO +85 °C (OPERATING)
-65 °C TO +125 °C (STORAGE)
- 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 2: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	08/29/17	

[illegible]

J3 PIN OUT	
PIN	FUNCTION
1	+5 V
2	GND
3	-15 V
4	GND
5	TTL1
6	TTL2
7	TTL3
8	TTL4
9	TTL5

LOGIC TABLE					
PIN	9	8	7	6	5
FILTER A	1	1	1	1	0
FILTER B	1	1	1	0	1
FILTER C	1	1	0	1	1
FILTER D	1	0	1	1	1
FILTER E	0	1	1	1	1

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



		TITLE PRODUCT FEATURE 5SFB-DC26G-CD-SFF 100 MHz to 26 GHz 5 Channel Switch Filter Bank			
APPROVALS	DATE				
DRAWN <i>M. Berry</i>	<i>08/29/17</i>				
REDRAWN <i>SPU</i>	<i>10/18/17</i>	SIZE A	FSCM NO. 05XQ0	DWG NO. 27031900	REV. A1
ISSUED		SCALE N:S			SHEET 1 OF 1