DESCRIPTION

PMI MODEL NO: 6SFB-30M600M-CD-SFF IS A 6-CHANNEL SWITCHED FILTER BANK THAT OPERATES OVER THE FREQUENCY RANGE OF 30 TO 600 MHz. IT HAS A MAXIMUM INSERTION LOSS OF 4.5 dB AND A MINIMUM ISOLATION OF 40 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

•	FREQUENCY:	30 TO 600 MHz

 INSERTION LOSS: 4.0) dB TYP.	. 4.5 dB MAX
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• VSWR: ----- 1.5:1 MAX

• ISOLATION: ----- 40 dB MIN

• INPUT POWER: ------ 1 WATT MAX

• VIDEO LEAKAGE:----- TBD @ RF OUTPUT > 20MHz and

50us CTL Rep Rate (20kHz).

SWITCHING SPEED: ----- 500 ns TYP

• CONTROL: ------ TTL, "0" = ON, "1" = OFF

POWER SUPPLY: ----- +15 V @ 300 mA TYP

-15 V @ 50 mA TYP

• IMPEDANCE: ----- 50 OHMS

CONNECTORS: ----- SMA FEMALE

FINISH: ----- PAINTED BLUE

ABSOLUTE MAXIMUM RATINGS					
BIASING	±15 V				
TTL CONTROL VOLTAGE	+5 V / 0 V				
INPUT RF POWER	+30 dBm				
STORAGE TEMPERATURE	-55°C TO +125°C				

-[PIN	FUNCTION
I	1	CTRL 1
ſ	2	CTRL 2
[3	CTRL 3
[4	N/C
[5	N/C
[6	N/C
I	7	+15 VDC
I	8	GND
Т	9	-15 VDC

	LOGIC TABLE								
C3	C2	C1	CHANNEL	PASSBAND (MHz)	LOWER REJECTION (MHz)	REJECTION LEVEL (dBc)	UPPER REJECTION (MHz)	REJECTION LEVEL (dBc)	
0	0	0	1	30-45	15 20	60 40	60-70 70-800	40 60	
0	0	1	2	45-70	20	60	90-110	40	
U	0 0 1	-	40-70	25	40	110-800	60		
0	1	0	3	70-100	20-35 40	60 40	140-160 160-800	40 60	
0	1	1	4	100-160	20-55 55-65	60 40	200-220 220-1000	40 60	
1	0	0	5	160-275	20-100 100-115	60 40	320-340 340-1500	40 60	
1	0	1	6	275-500	20-180 180-190	60 40	550-570 570-1500	40 60	
1	1	1	ALL OFF						

ENVIRONMENTAL RATINGS

• HUMIDITY: ----- 5 TO 85%

SHOCK: ----- 50G, ½ SINE, 11 ms

VIBRATION: ----- 10G RMS, 20 - 2000H

• ALTITUDE: ----- MIL-STD-202, METHOD 105C COND. B

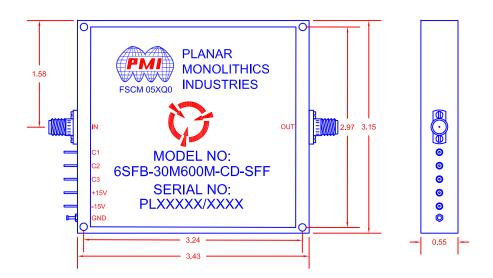
TEMPERATURE CYCLE: ------ MIL-STD-202, METHOD 107D COND. A

ALL DIMENSIONS
ARE IN mm [INCH]
TOLERANCES:
X,XX ± 0.020
X,XXX ± 0.010

PMI CONFIDENTIAL AND PROPRIETARY



MECHANICAL OUTLINE



NO DAMAGE CONDITIONS

- a. Any combination of supply voltage at turn-on or loss of power.
- b. Reverse polarity of any voltage, within industry standard reason.
- c. Any source and/or load VSWR including short or open with no time limitation.
- d. 30 dBm CW power input at the input and/or output connector with no time limitation (DC power must be applied for this to apply).
- e. 30 dBm pulse (1uSec, 0.1% duty cycle) at the input and/or output connector with no time limitation (DC power must be applied for this to apply).
- f. Static charge (hand touch).

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		TITLE							
APPROVALS	DATE	PRODUCT FEATURE							
drawn EW	1/24/19		6SFB-30M600M-CD-SFF						
REDRAWN		SIZE	FSCM NO.		DWG NO.				REV.
		Α	05XQ0		PRELIMINARY			2	
ISSUED		SCALE	N:S				SHEET	1 OF 1	

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