

DESCRIPTION

PMI MODEL NO: 3SFB-100M500M-CD-SFF IS A 3-CHANNEL SWITCHED FILTER BANK THAT OPERATES OVER THE FREQUENCY RANGE OF 100 TO 500 MHz. IT HAS A MAXIMUM INSERTION LOSS OF 4.0 dB AND A MINIMUM ISOLATION OF 40 dB. THIS MODEL IS OUTFITTED WITH SMA FEMALE CONNECTORS.

SPECIFICATIONS

- FREQUENCY: ----- 100 TO 500 MHz
- INSERTION LOSS: ----- 3.5 dB TYP, 4.0 dB MAX
- VSWR: ----- 1.5:1 MAX
- ISOLATION: ----- 40 dB MIN
- INPUT POWER: ----- 1 WATT MAX
- SWITCHING SPEED: ----- 200 ns TYP
- VIDEO LEAKAGE: ----- TBD @ RF OUTPUT > 20MHz and 50us CTL Rep Rate (20kHz).
- CONTROL: ----- TTL, "0" = ON, "1" = OFF
- POWER SUPPLY: ----- +15 V @ 200 mA TYP
-15 V @ 100 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
1	CTRL 1
2	CTRL 2
3	CTRL 3
4	N/C
5	N/C
6	N/C
7	+15 VDC
8	GND
9	-15 VDC

LOGIC TABLE							
C2	C1	CHANNEL	PASSBAND (MHz)	LOWER REJECTION (MHz)	REJECTION LEVEL (dBc)	UPPER REJECTION (MHz)	REJECTION LEVEL (dBc)
0	0	1	100-170	20-50 50-70	60 40	200-230 230-1000	40 60
0	1	2	170-290	20-80 80-110	60 40	340-380 380-1500	40 60
1	0	3	290-500	20-190 190-220	60 40	580-700 700-1500	40 60
1	1	ALL OFF					

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- -45 °C TO +85 °C (OPERATING)
-55 °C TO +125 °C (STORAGE)
- 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

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

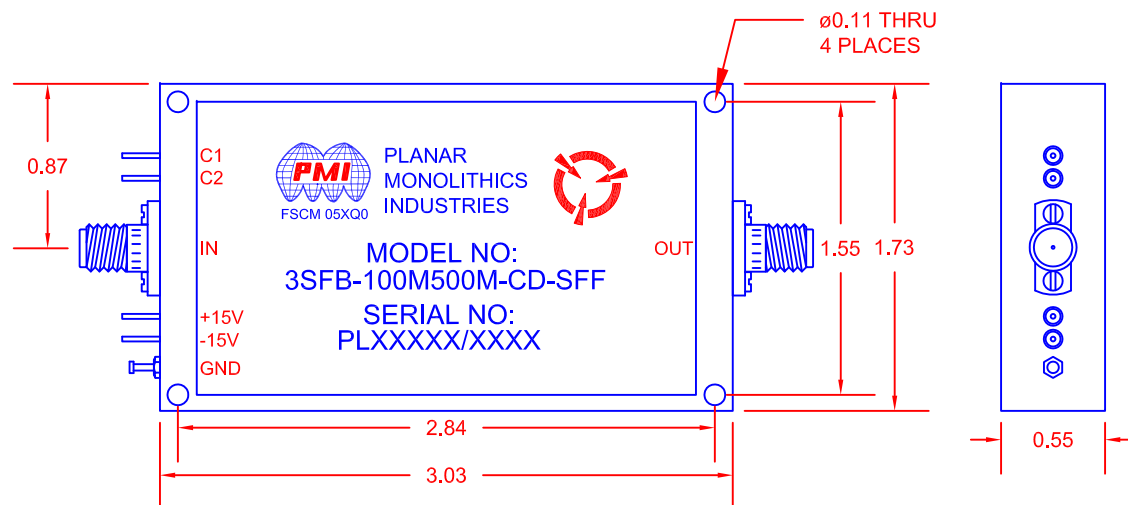
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

PMI CONFIDENTIAL AND PROPRIETARY

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	1/24/19	
	1	UPDATED SPECS AND MECHANICALS	2/5/19	
	2	UPDATED SPECS	2/8/19	

MECHANICAL OUTLINE



NO DAMAGE CONDITIONS

- Any combination of supply voltage at turn-on or loss of power.
- Reverse polarity of any voltage, within industry standard reason.
- Any source and/or load VSWR including short or open with no time limitation.
- 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).
- 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).
- Static charge (hand touch).

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>EW</i>		1/24/19		PRODUCT FEATURE 3SFB-100M500M-CD-SFF	
REDRAWN				SIZE A FSCM NO. 05XQ0 DWG NO. PRELIMINARY	
ISSUED				REV. 2	
SCALE N:S				SHEET 1 OF 1	