

DESCRIPTION

PMI MODEL: SFB-6G18G-2CH-6DB-500NS-SFF IS A 6 TO 18 GHz BAND PASS FILTER WITH TWO CHANNELS COVERING 6.0 TO 10.4 GHz AND 10.4 TO 18.0 GHz. BOTH CHANNELS HAVE 6 dB INSERTION LOSS, A VSWR OF 2.0:1 MAX, AND GREATER THEN 60 dBc ISOLATION. THE MAX SWITCHING SPEED IS 500 ns AND VIDEO LEAKAGE IS LESS THAN 100 mV.

SPECIFICATIONS

- FREQUENCY CH1: ----- 6.0 TO 10.40 GHz
- FREQUENCY CH2: ----- 10.40 TO 18.0 GHz
- INSERTION LOSS CH1 & CH2: -- 6 dB
- INPUT VSWR CH1 & CH2: ----- 2.0:1 MAX
- OUTPUT VSWR CH1 & CH2: ----- 2.0:1 MAX
- ISOLATION: ----- 60 dBc MIN
- CH1 REJECTION: ----- 50 dBc @ 12.0 TO 18.0 GHz
- SWITCHING SPEED: ----- 500 ns MAX
- SECOND HARMONIC: ----- 60 dBc @ +27 dBm
- INPUT POWER: ----- +27 dBm
- VIDEO LEAKAGE: ----- 100 mV MAXIMUM
(IN 100 MHz BANDWIDTH)
- POWER SUPPLY: ----- +5 VDC @ 100 mA MAX
-15 VDC @ 100 mA MAX
- FINISH: ----- PAINTED BLUE
BOTTOM SIDE UNPAINTED
(GOLD PLATED)

MULTI-PIN CONNECTOR

PIN	FUNCTION
A	NOT CONNECTED
B	+5 VDC
C	NOT CONNECTED
D	GROUND
E	BAND '1': 6.0 TO 10.4 GHz*
F	-15 VDC
H	BAND '2': 10.4 TO 18 GHz*

*PINS E & H ACTIVATED BY TTL '0'

ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- 0 °C TO +65 °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

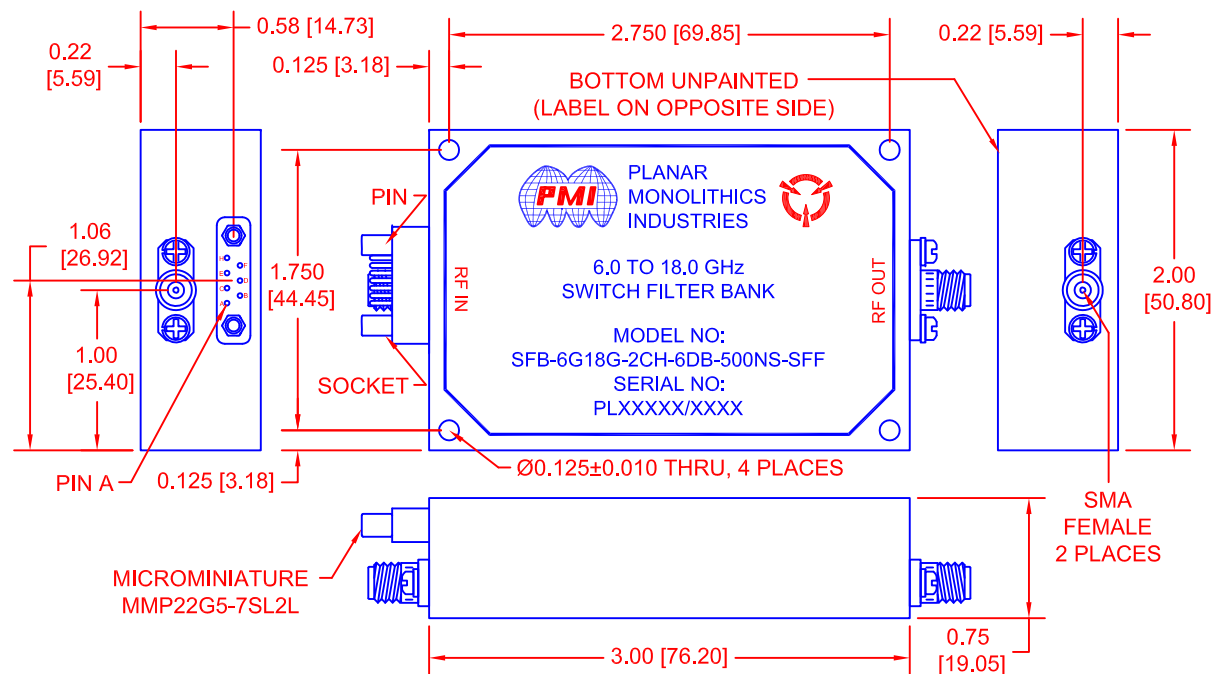
NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	08/21/17	
	B1	ECN # 18-0034	02/16/18	

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE		TITLE	
DRAWN <i>EJB</i>		03/30/17		PRODUCT FEATURE	
REDAWN <i>M. Berry</i>		02/16/18		SFB-6G18G-2CH-6DB-500NS-SFF	
ISSUED				2 Channel 6.0 to 18.0 GHz Switch Filter Bank	
SIZE	FSCM NO.	DWG NO.	REV.		
A	05XQ0	27028580	B1		
SCALE	N:S			SHEET	1 OF 1