

## DESCRIPTION

PMI MODEL: BPF-40G-2000-292FF IS A BANDPASS CAVITY FILTER WITH 2.92mm CONNECTORS.  
ALL FILTERS WILL BE MACHINED AND SILVER PLATED TO PROVIDE THE HIGHEST POSSIBLE Q.

## SPECIFICATIONS

- PASSBAND FREQUENCY: ----- 39 to 41 GHz
- CENTER FREQUENCY: ----- 40 GHz
- BANDWIDTH: ----- 2000 MHz
- RETURN LOSS (PASS BAND): ----- 1.5:1 TYPICAL, 2.0:1 MAXIMUM
- INSERTION LOSS (PASS BAND): ----- 2 to 3 dB TYPICAL
- STOP BAND (LOWER): ----- 38500 MHz
- STOP BAND (LOWER), INSERTION LOSS ----- 60 dB
- STOP BAND (UPPER): ----- 41500 MHz
- STOP BAND (UPPER), INSERTION LOSS ----- 60 dB
- RF INPUT POWER: ----- +25 dBm
- CONNECTORS: ----- 2.92mm FEMALE
- SIZE: ----- TBD

## ENVIRONMENTAL RATINGS

- TEMPERATURE: ----- 0 °C TO +40 °C (OPERATING)
- 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
- SALT FOG: ----- MIL-STD-202, METHOD 107D COND. B
- FUNGUS: ----- MIL-STD-810, METHOD 508.2
- 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 INCHES  
TOLERANCES:  
X.XX ±0.020  
X.XXX ±0.010

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	7/27/22	

## MECHANICAL OUTLINE

PMI CONFIDENTIAL AND PROPRIETARY

## PLANAR MONOLITHICS INDUSTRIES, INC.

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN <i>AF</i>		7/27/22	PRODUCT FEATURE BPF-40G-2000-292FF		
CHECKED			SIZE A	FSCM NO. 05XQ0	DWG NO. PRELIMINARY
ISSUED			SCALE N:S	SHEET 1 OF 1	REV. -