

**TYPICAL CHARACTERISTICS  
ON  
BPF-13G-1G-SFF**

**PMI MODEL: BPF-13G-1G-SFF IS A BAND PASS FILTER WITH SMA FEMALE CONNECTORS IN/OUT.  
THIS UNIT HAS A CENTER FREQUENCY OF 13000 MHz AND AN INSERTION LOSS OF 0.6 dB MAX.**



**REPORTED BY: V. PRATAP  
TESTED BY: E. KRETZ  
DATE: 8/20/2025**

# TYPICAL CHARACTERISTICS ON BPF-13G-1G-SFF

## PRODUCT FEATURE

**DESCRIPTION:**

PMI MODEL: BPF-13G-1G-SFF IS A BAND PASS FILTER WITH SMA FEMALE CONNECTORS IN/ OUT. THIS UNIT HAS A CENTER FREQUENCY OF 13000 MHz AND AN INSERTION LOSS OF 0.6 dB MAX.

**SPECIFICATIONS @ 25°C:**

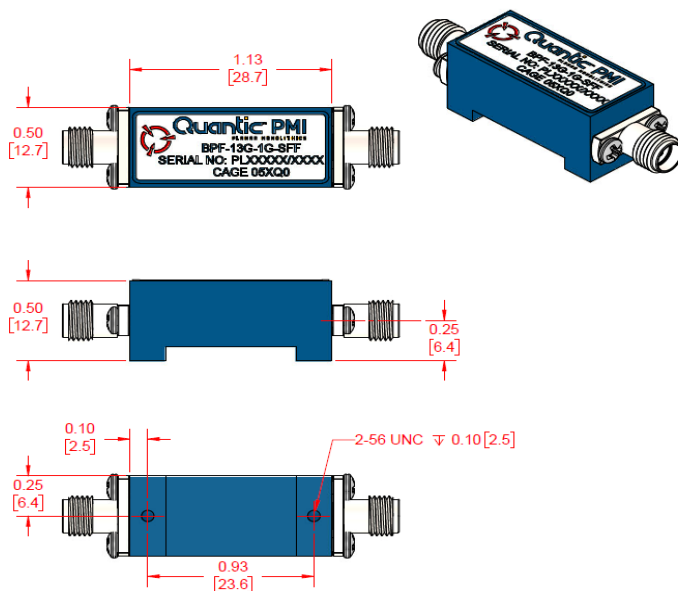
- PASSBAND FREQUENCY:..... 12.5 GHz TO 13.5 GHz
- INSERTION LOSS:..... 0.6 dB MAX
- RETURN LOSS:..... 14 dB MIN
- REJECTION @ DC TO 10 GHz:..... 38 dBc MIN
- REJECTION @ 16 GHz TO 20 GHz:..... 43 dBc MIN
- INPUT POWER:..... 10 W MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -40°C TO +70°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
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107D COND. A

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

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	6/29/2005	



APPROVALS		DATE	TITLE	
DRAWN	V.P.	6/29/2005	OUTLINE	
DESIGNED			BPF-13G-1G-SFF	
<small>DESIGN ENGINEER APPROVED MANUFACTURING AND FINISHES</small>			SIZE	REV
<small>DESIGNED BY: JAMES J. HALL DATE: JUL 2 2005</small>			B   05XQ00	DWG NO.   270522260
			SCALE: 2:1	SHEET 1 OF 1

PMI CONFIDENTIAL AND PROPRIETARY

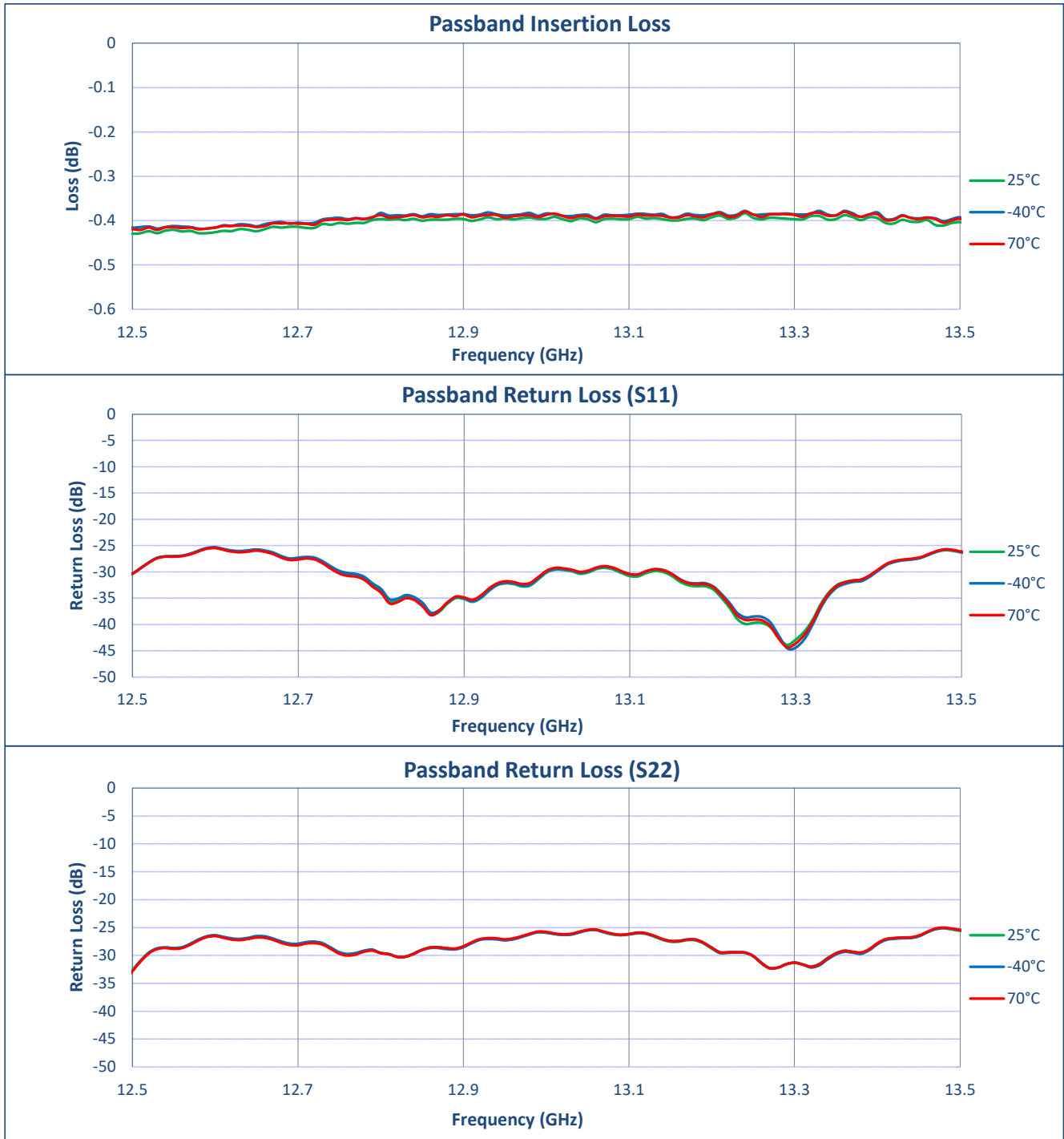
**Quantic PMI**  
PLANAR MONOLITHICS  
7309-A GROVE ROAD FREDERICK, MD 21704 USA  
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TEL: (301) 662-1731 FAX: (301) 662-1731

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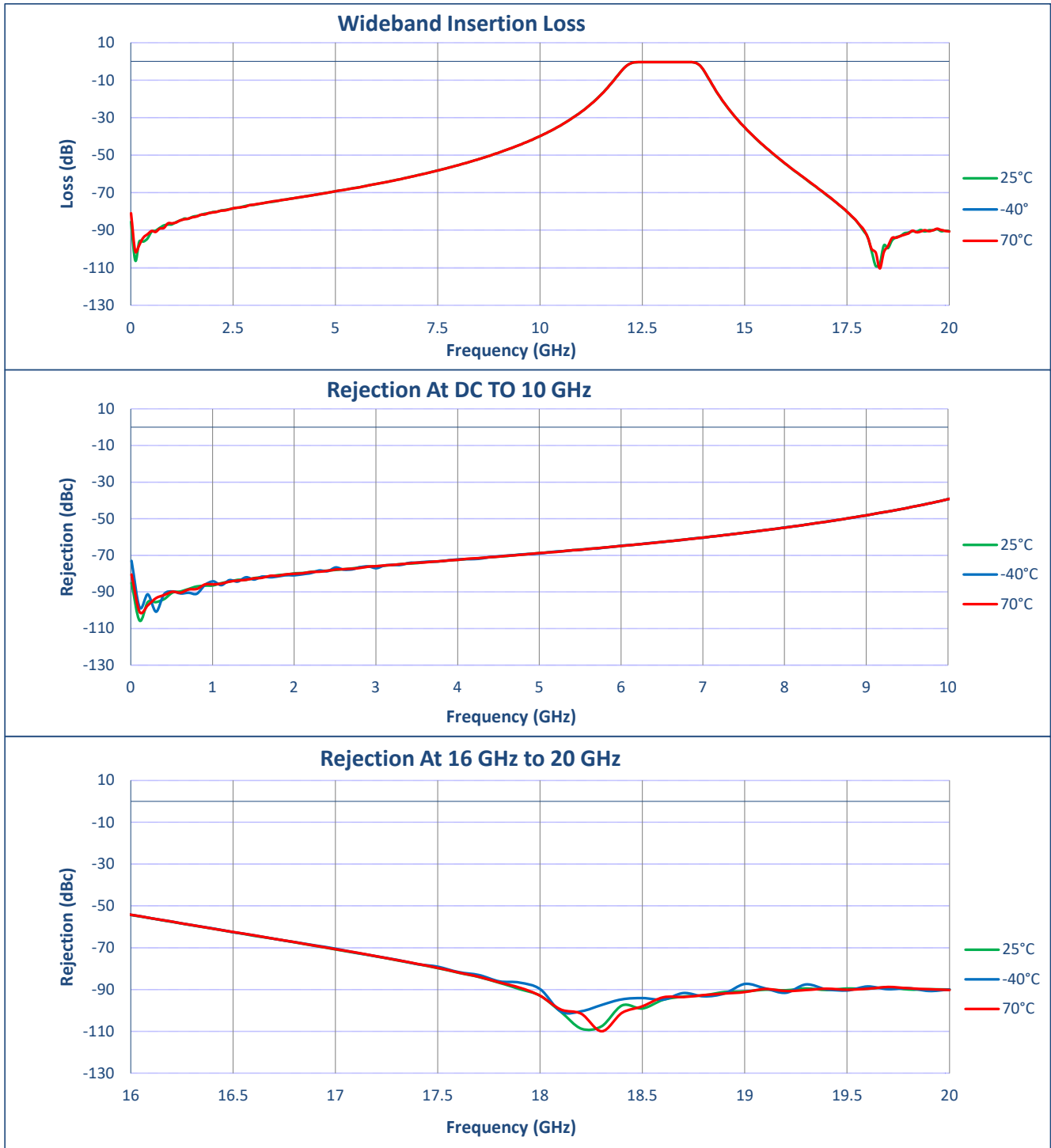
**PRODUCT SPECIFICATIONS**

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+70°C
1	Passband Frequency Range	12.5 GHz to 13.5 GHz	12.5 GHz to 13.5 GHz		
2	Insertion Loss (Passband)	0.6 dB Max.	0.42 dB	0.43 dB	0.42 dB
3	Return Loss	14 dB Min.	25.11 dB	25.16 dB	25.03 dB
4	Rejection (DC to 10 GHz)	38 dBc Min.	39.3 dBc	39.3 dBc	39.3 dBc
5	Rejection (16 GHz to 20 GHz)	43 dBc Min.	54.2 dBc	54.3 dBc	54.2 dBc
6	Input Power	10W	10W	10W	10W

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