

TYPICAL CHARACTERISTICS ON BPF-3D5G-5G-SFF

PMI MODEL: BPF-3D5G-5G-SFF IS A BANDPASS FILTER WITH SMA FEMALE CONNECTORS.



REPORTED BY: ANTON L.
TESTED BY: E. KRETZ
DATE: 7/2/2025

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PRODUCT FEATURE

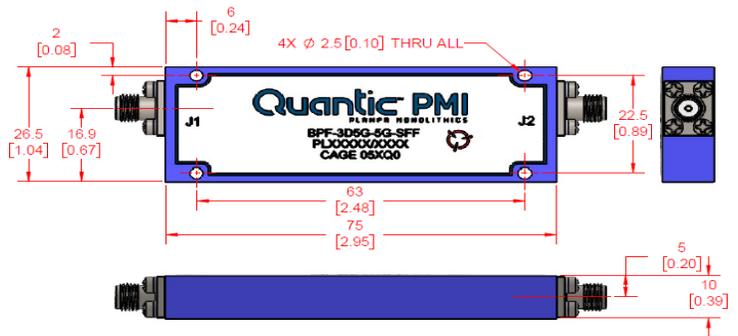
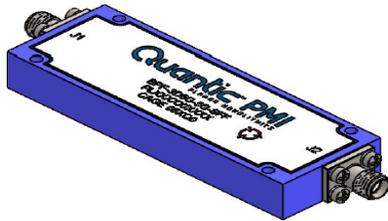
DESCRIPTION:

QUANTIC PMI MODEL BPF-3D5G-5G-SFF IS A BANDPASS FILTER WITH A CENTER FREQUENCY OF 3.5 GHz, A PASSBAND OF 1 TO 6 GHz, A MAXIMUM INSERTION LOSS OF 2 dB, AND A MAXIMUM VSWR OF 1.8:1. THIS UNIT IS OUTFITTED WITH SMA FEMALE CONNECTORS.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	4/2/08	

SPECIFICATIONS @ 25°C:

- CENTER FREQUENCY:..... 3.5 GHz
- BANDWIDTH:..... 1 to 6 GHz
- INSERTION LOSS (PASSBAND):..... 2.0 dB MAX
- VSWR:..... 1.8:1 MAX
- REJECTION @ DC-0.8 GHz:..... 50 dB TYP / 45 dB MIN
- REJECTION @ 7-12 GHz:..... 50 dB TYP / 45 dB MIN
- INPUT POWER:..... 10 W MAX
- SIZE:..... 2.96" (L) x 1.04" (W) x 0.40" (H)
- IMPEDANCE:..... 50 Ohm
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204B 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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE
DESIGNED	AL		OUTLINE DRAWINGS
DRAWN			BPF-3D5G-5G-SFF
TRACED			
SCALE	1:1		

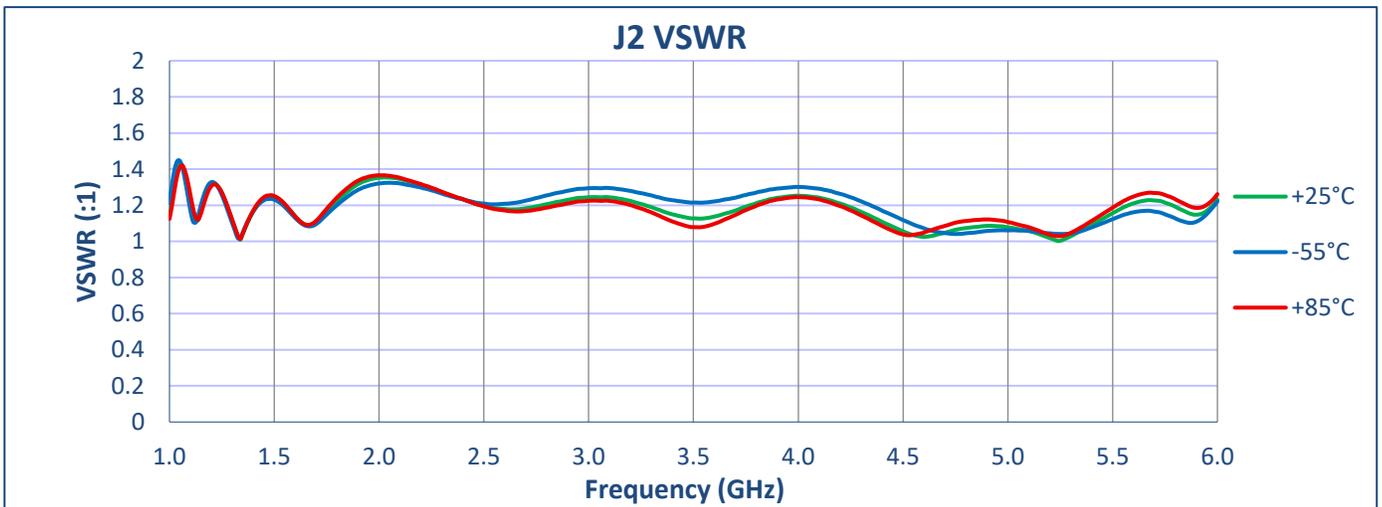
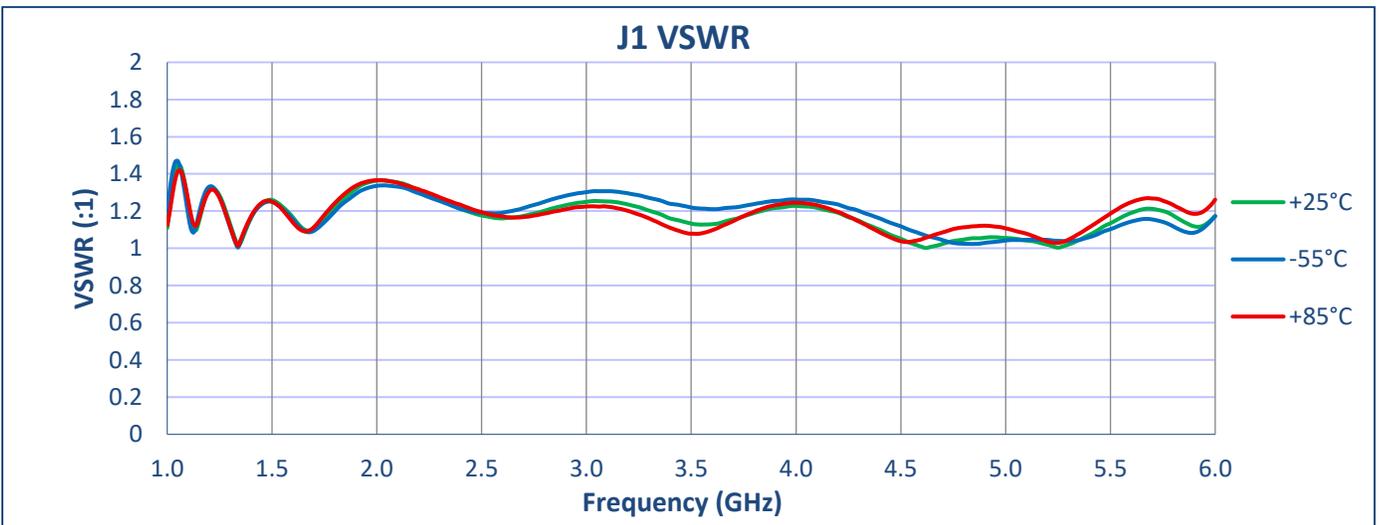
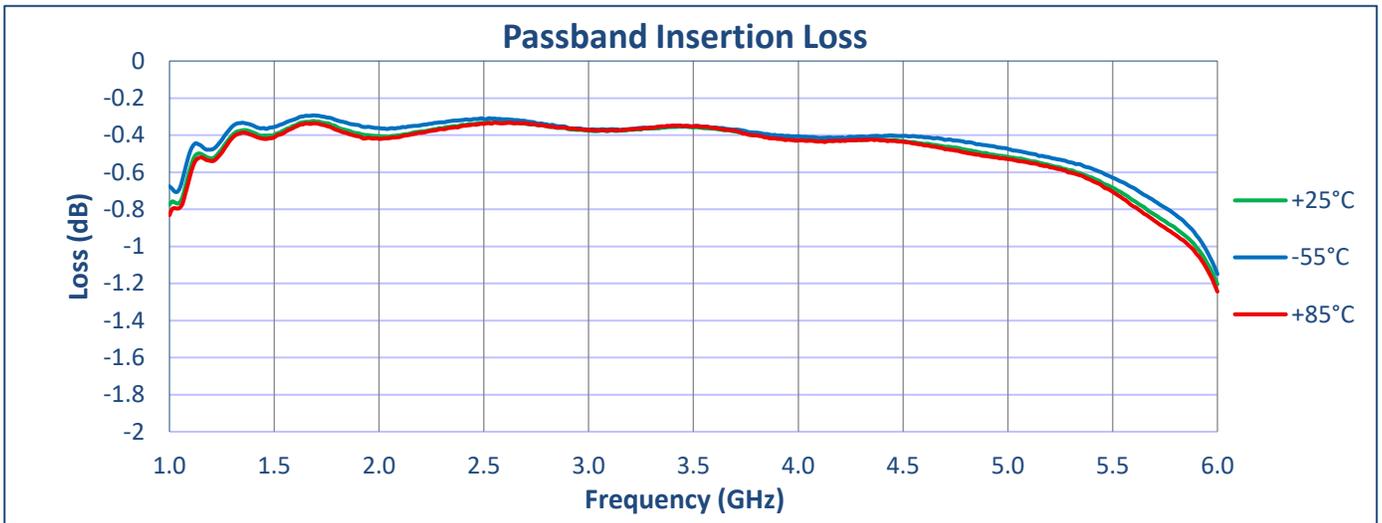
QUANTIC PMI PLANAR MONOLITHICS	7309-A GROVE ROAD FREDERICK, MD 21704 USA TEL: (301) 662-5019 FAX: (301) 662-1731 WWW.QUANTICPMI.COM
FORM NO. 05XQ0	REV. 27051600
	SHEET 1 OF 1

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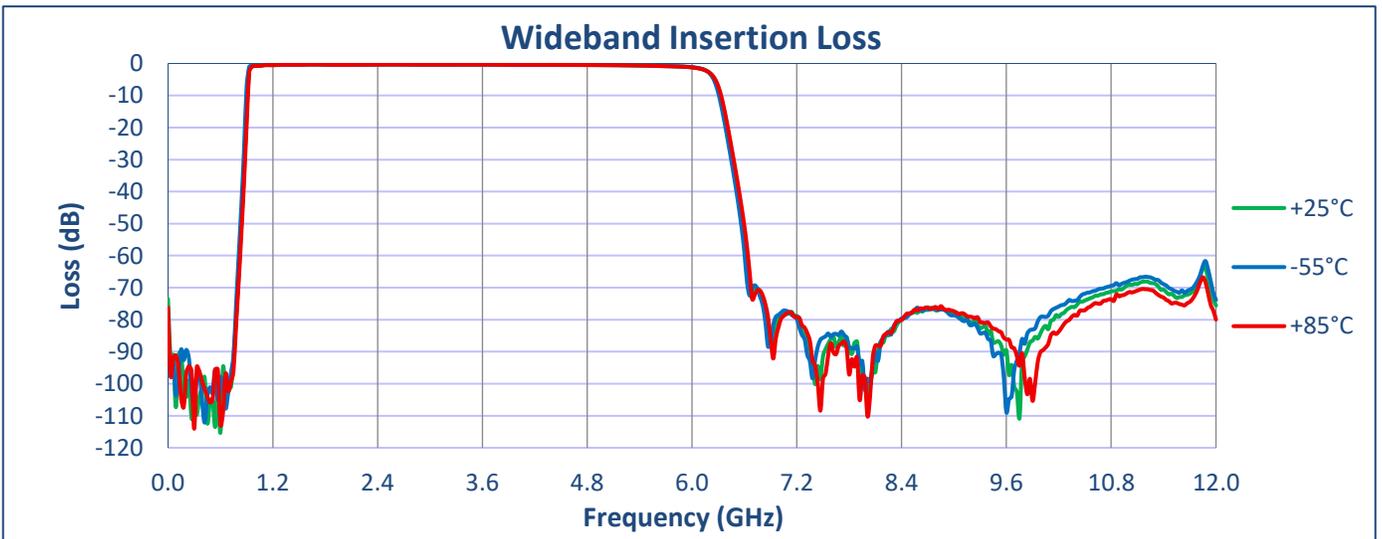
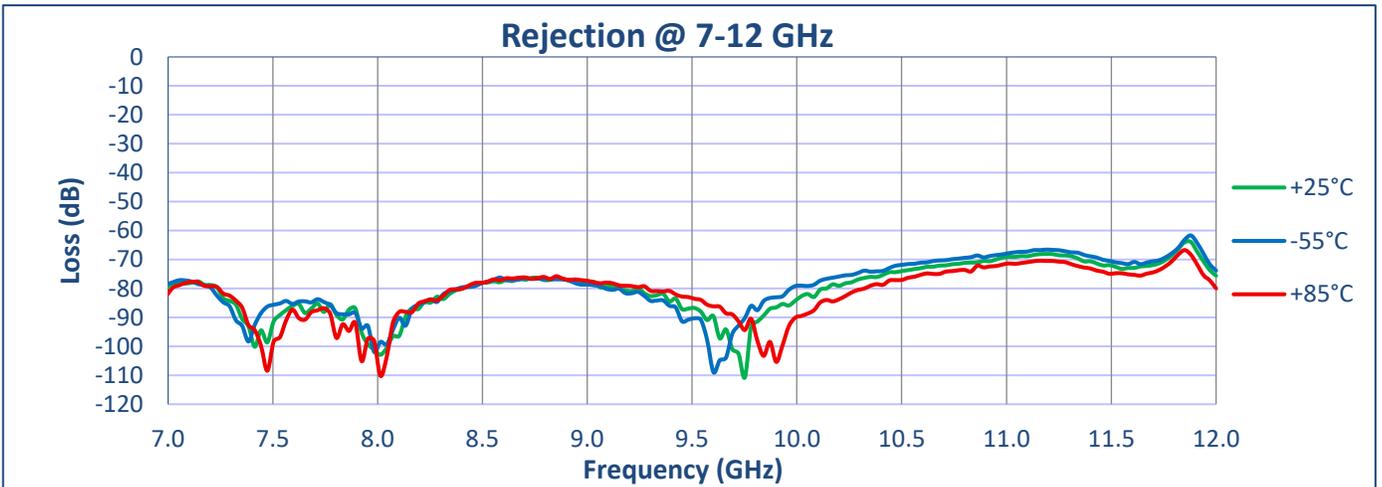
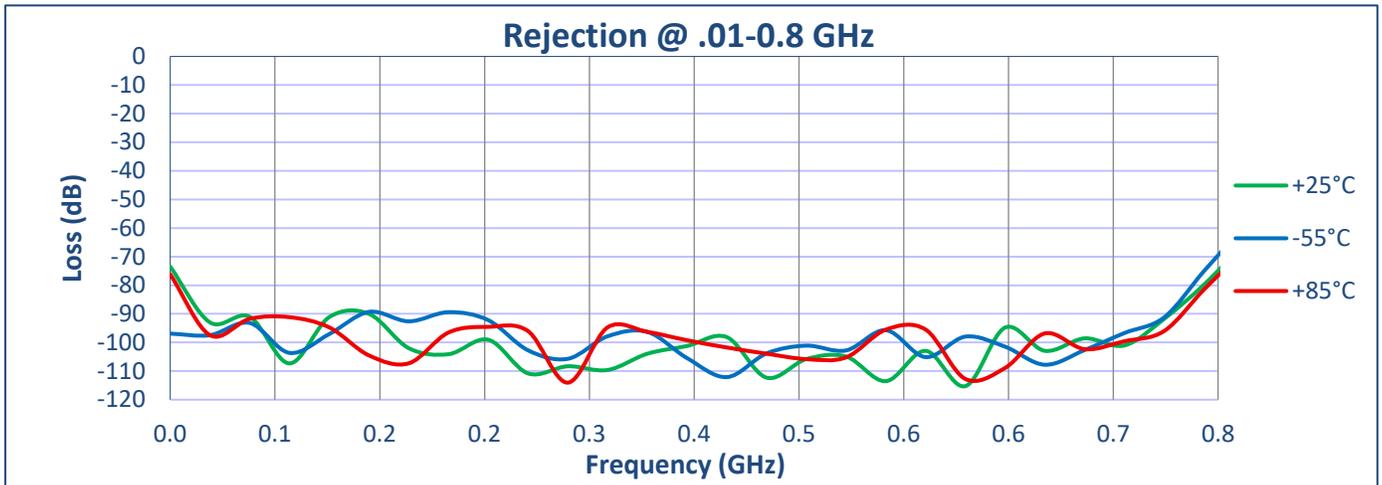
TECHNICAL SPECIFICATIONS

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-55°C	+25°C	+85°C
1	Passband Frequency Range	1 TO 6 GHz	0.9 TO 6.2 GHz	0.9 TO 6.2 GHz	0.9 TO 6.2 GHz
2	Insertion Loss (Passband)	2.0 dB MAX.	1.1 dB	1.2 dB	1.2 dB
3	VSWR	1.8:1 MAX	1.5:1	1.4:1	1.4:1
4	Rejection @ DC-0.8 GHz	45 dB MIN.	75.1 dB	73.5 dB	76.2 dB
5	Rejection @ 7-12 GHz	45 dB MIN.	61.7 dB	64 dB	66.7 dB
6	Input Power	10 W MAX.	10 W MAX.		

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