

# TYPICAL CHARACTERISTICS ON 10BP300-100-3B-SFF

PMI MODEL NUMBER 10BP300-100-3B-SFF IS A 250-350 MHz LC BANDPASS FILTER WITH SMA CONNECTORS.



REPORTED BY: ANTON L.  
TESTED BY: E. KRETZ  
DATE: 7/10/2025

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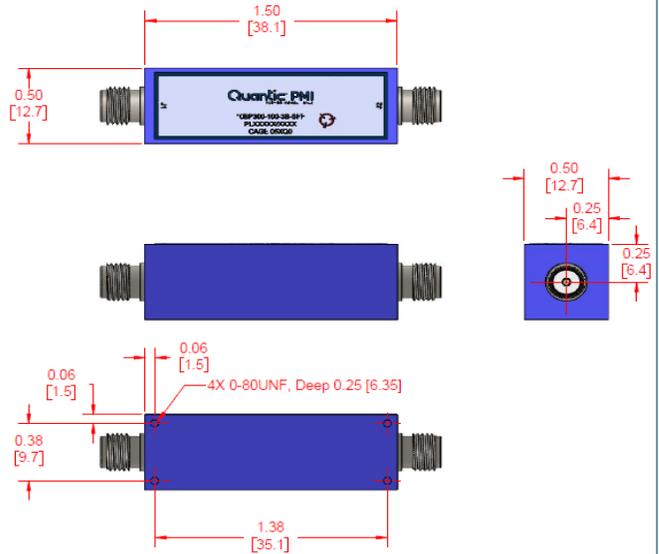
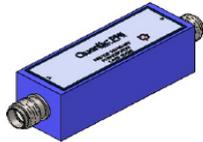
## PRODUCT FEATURE

**DESCRIPTION:**

PMI MODEL NUMBER 10BP300-100-3B-SFF IS A 250-350 MHz LC BANDPASS FILTER WITH SMA CONNECTORS.

**SPECIFICATIONS:**

- CENTER FREQUENCY:..... 300 MHz
- 3 dB BANDWIDTH:..... 100 MHz MIN
- INSERTION LOSS (PASSBAND):..... 2.0 dB MAX
- VSWR:..... 1.5:1 MAX
- REJECTION @ 200 MHz:..... 90 dB MIN
- REJECTION @ 400 MHz:..... 90 dB MIN
- INPUT POWER:..... 30 dBm MAX
- SIZE:..... 1.5" (L) x 0.50" (W) x 0.50" (H)
- WEIGHT:..... 1 OZ. TYP
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE



**ENVIRONMENTAL RATINGS:**

- TEMPERATURE:..... -55°C TO +85°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 204B COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105C COND. B

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

DATE	REV	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE		

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE
DESIGN	AL	
ISSUED	B	05X00

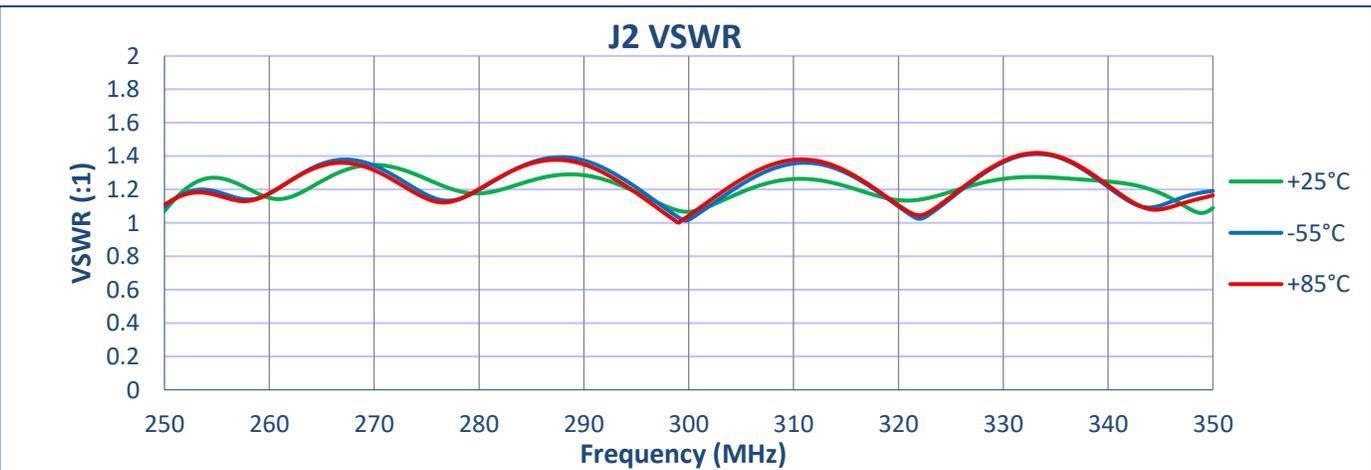
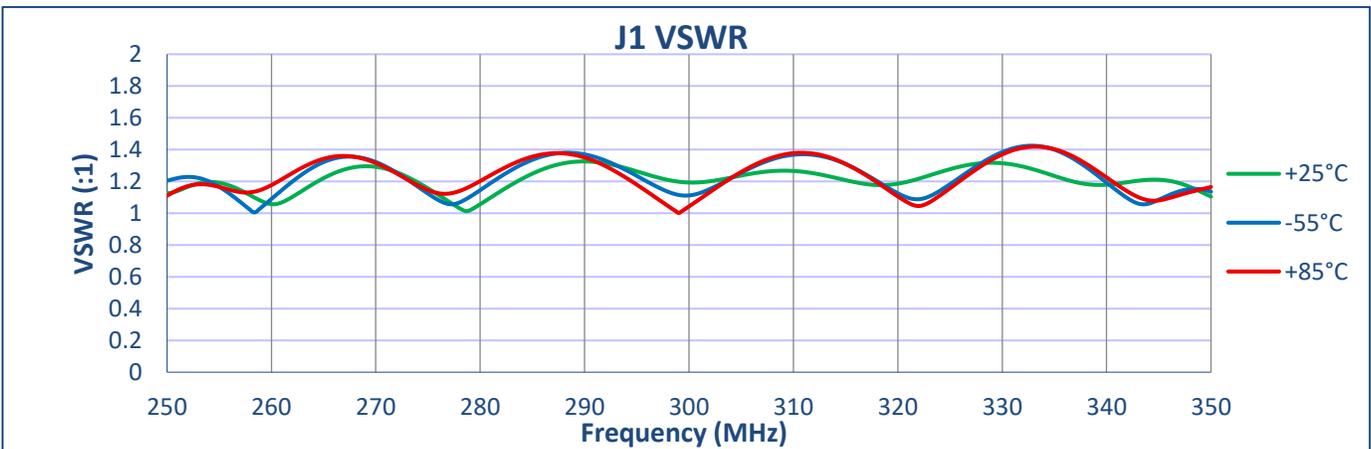
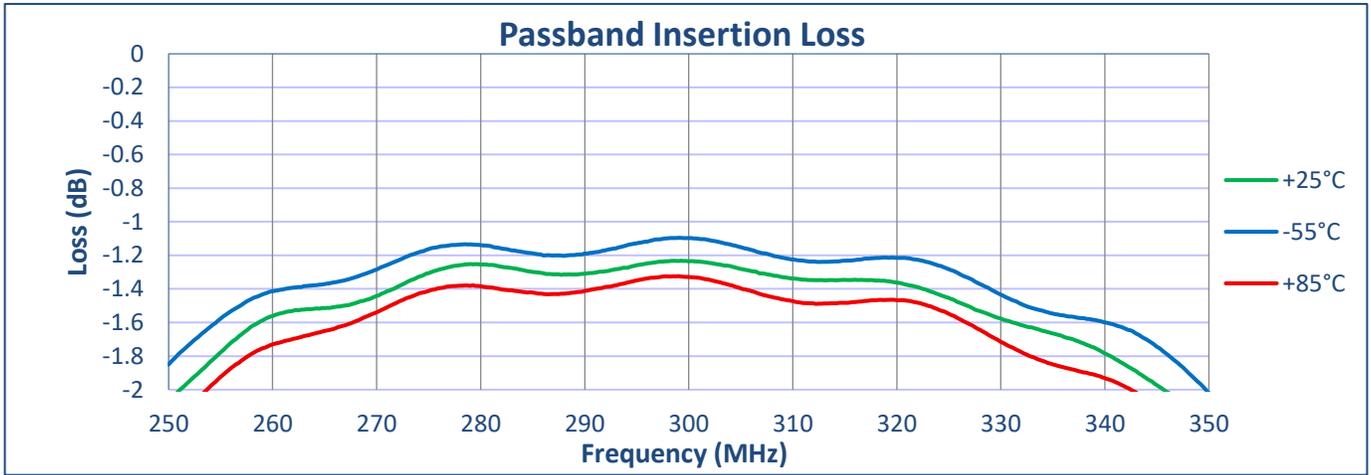
<p><b>Quantic PMI</b> PLANAR MONOLITHICS</p> <p>7309-A GROVE ROAD, FREDERICK, MD 21704 USA WWW.WWW.QUANTICPMI.COM TEL: 301-662-5019 FAX: 301-662-1731</p>	
<p>OUTLINE DRAWING 10BP300-100-3B-SFF</p>	
SCALE	2:1
SHEET	1 OF 1

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ON  
10BP300-100-3B-SFF**

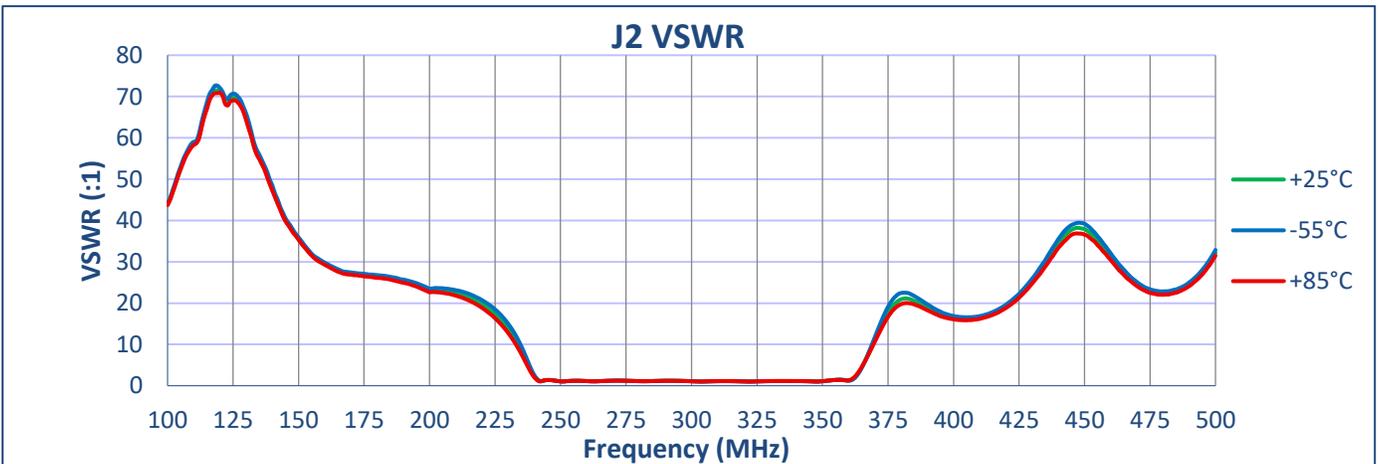
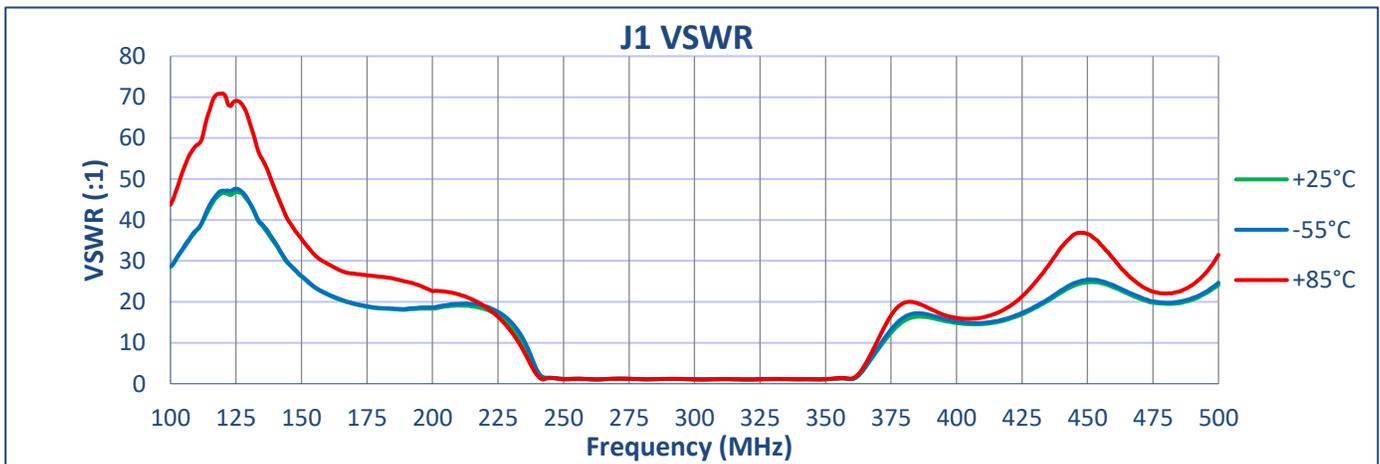
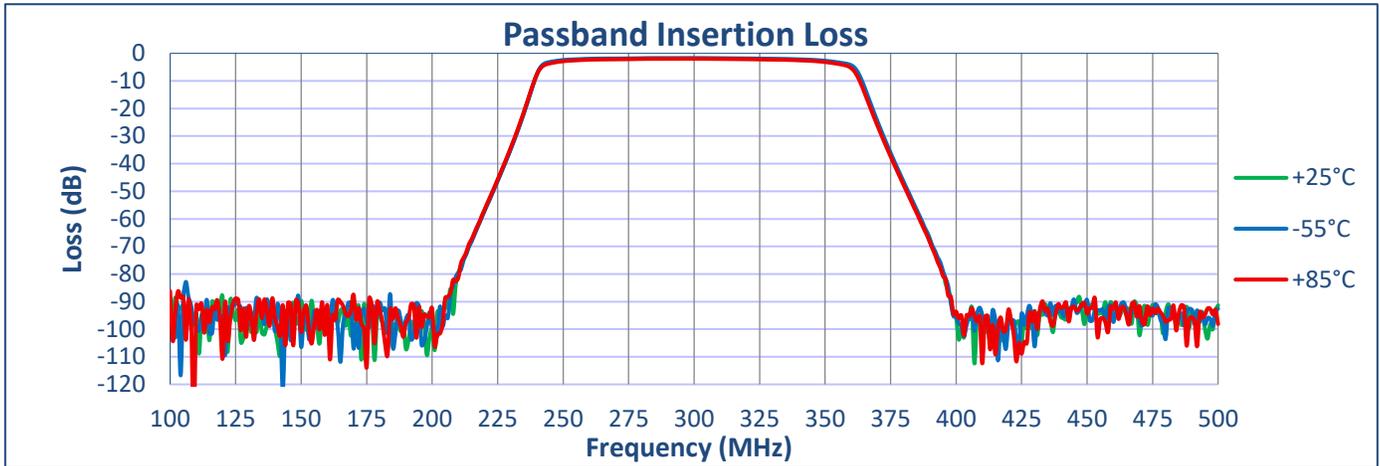
**TECHNICAL SPECIFICATIONS**

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-55°C	+25°C	+85°C
1	Passband Frequency Range	250 TO 350 MHz	241 TO 361 MHz	241 TO 361 MHz	241 TO 360 MHz
2	Bandwidth (-3dB)	100 MHz MIN	120 MHz	120 MHz	121 MHz
3	Insertion Loss @ 300 MHz (Fo)	2 dB MAX	1.1 dB	1.2 dB	1.3 dB
4	VSWR	1.5:1 MAX	1.4:1	1.3:1	1.3:1
5	Rejection @ 200 MHz	90 dB MIN	99.5 dB	100 dB	92.5 dB
6	Rejection @ 400 MHz	90 dB MIN	95.6 dB	95.7 dB	93.6 dB
7	Input Power	30 dBm MAX	30 dBm MAX		

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