

**TYPICAL CHARACTERISTICS  
ON  
BPF-110M140M-30M-SFF**

**PMI MODEL: BPF-110M140M-30M-SFF IS A BANDPASS FILTER WITH SMA FEMALE CONNECTORS  
IN/OUT. THIS UNIT HAS A PASSBAND FREQUENCY FROM 110 MHz TO 140 MHz.**



**REPORTED AND TESTED BY: V. PRATAP  
DATE: 10/15/2025**

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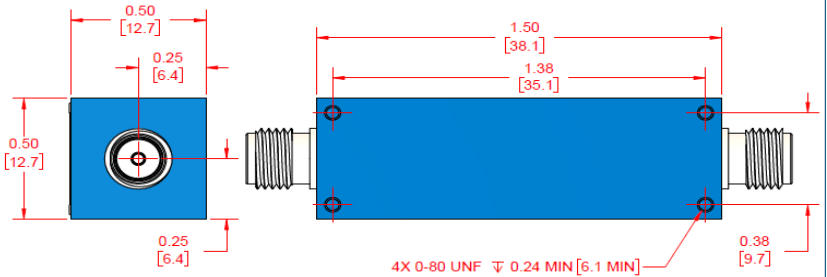
## PRODUCT FEATURE

**DESCRIPTION:**

PMI MODEL: BPF-110M140M-30M-SFF IS A BANDPASS FILTER WITH SMA FEMALE CONNECTORS IN/ OUT. THIS UNIT HAS A PASSBAND FREQUENCY FROM 110 MHz TO 140 MHz.

**SPECIFICATIONS:**

- PASSBAND FREQUENCY:..... 110 MHz TO 140 MHz
- BANDWIDTH (-3 dB):..... 30 MHz MIN.
- INSERTION LOSS @ 125 MHz (F<sub>0</sub>):..... 2 dB MAX
- PASSBAND FLATNESS:..... 3 dB MAX
- VSWR:..... 1.5:1 MAX
- REJECTION @ 100 MHz:..... 40 dB MIN.
- REJECTION @ 150 MHz:..... 40 dB MIN.
- INPUT POWER:..... 1 W MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

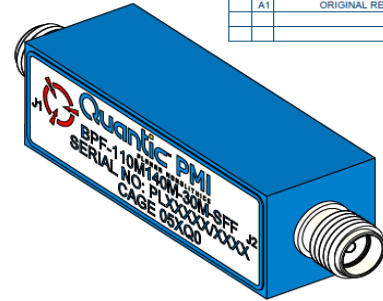


**ENVIRONMENTAL RATINGS:**

- 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 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		



PMI CONFIDENTIAL AND PROPRIETARY

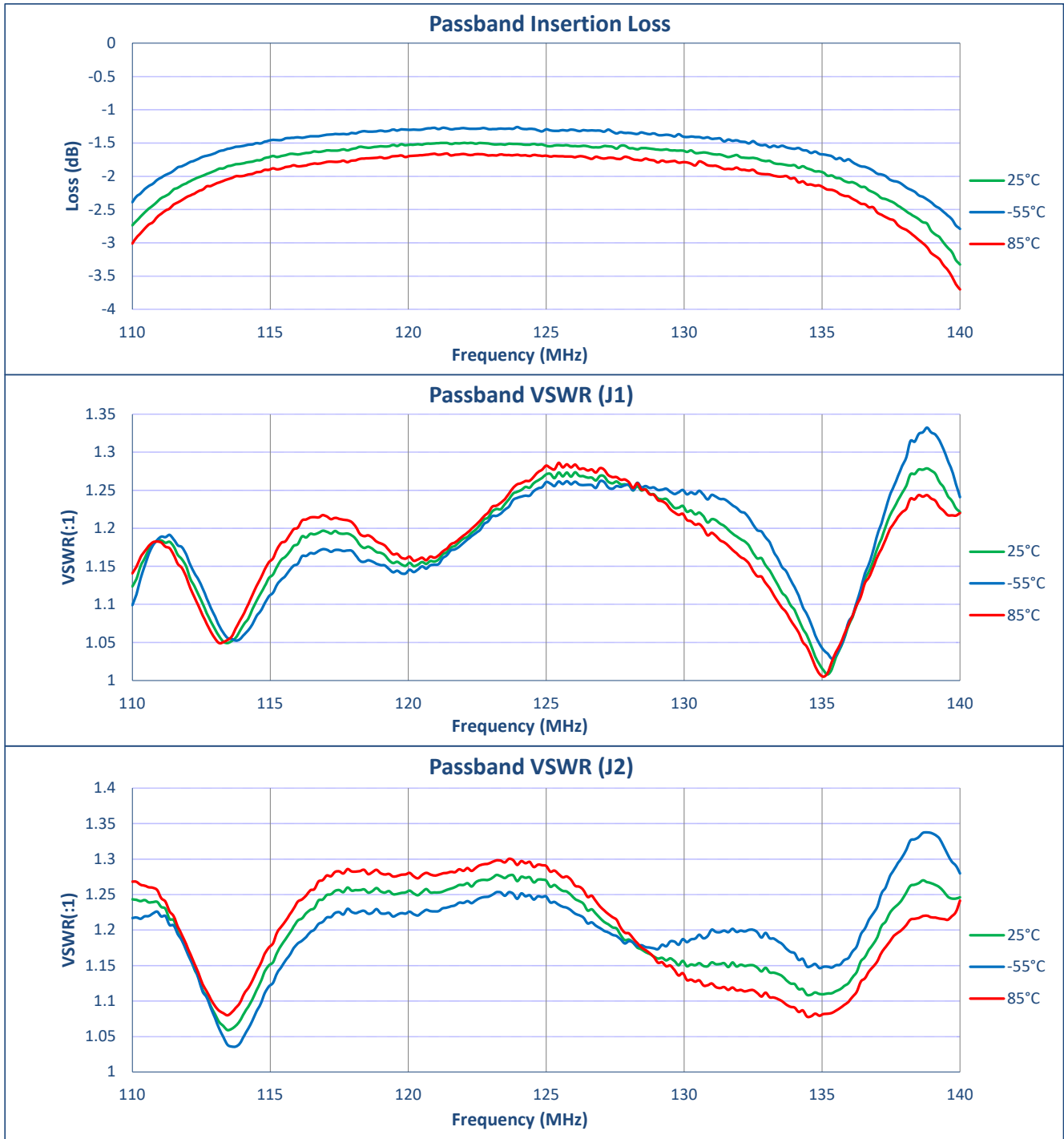
APPROVALS		DATE	TITLE	
DESIGNED	V. PRATAP	06/20/20	OUTLINE	
REDESIGNED			BPF-110M140M-30M-SFF	
ISSUED			SIZE	REV.
			B	A1
			SCALE	SHEET
			3:1	1 OF 1

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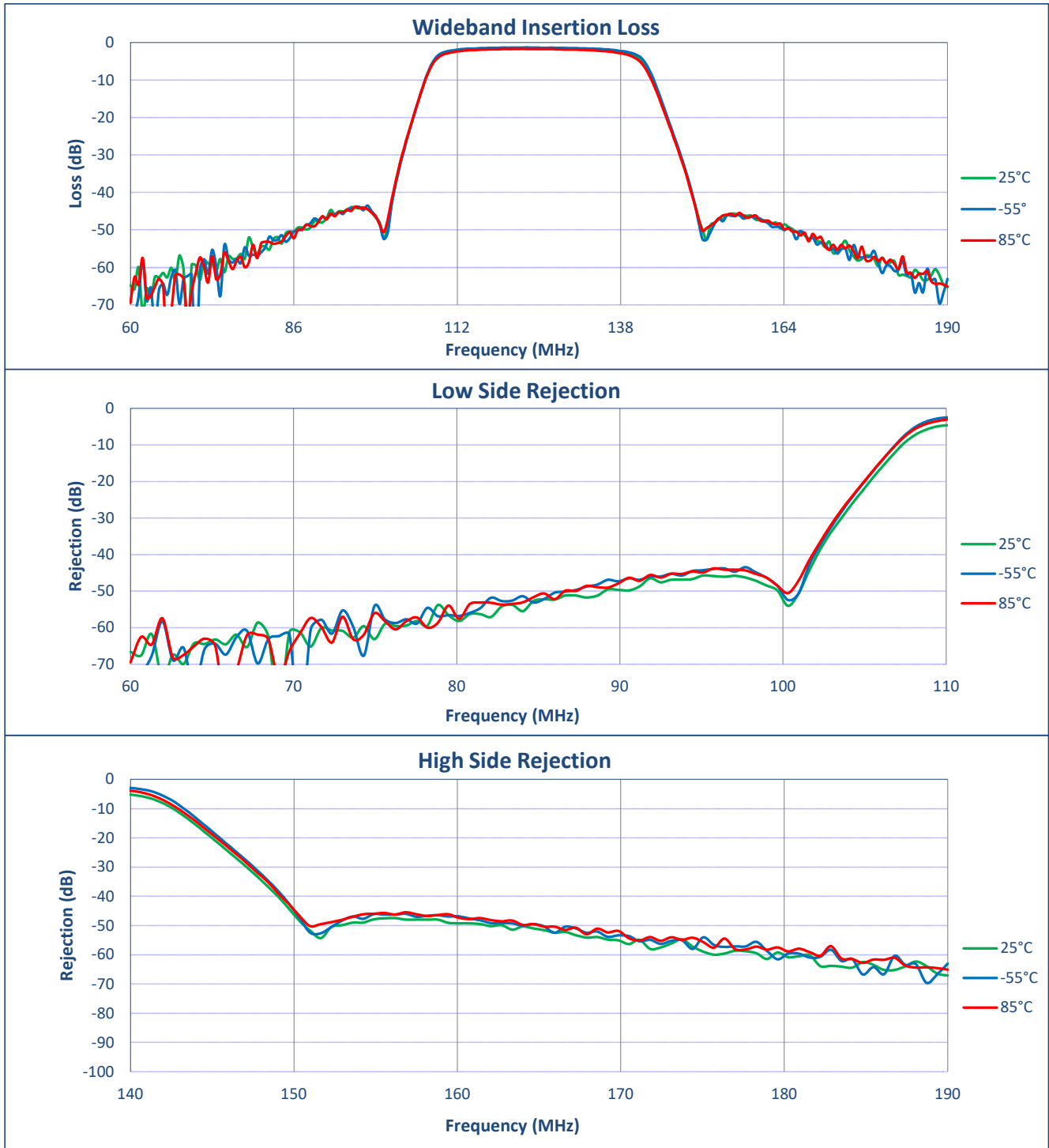
**PRODUCT SPECIFICATIONS**

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-55°C	+25°C	+85°C
1	Passband Frequency Range	110 MHz to 140 MHz	110 MHz to 140 MHz		
2	Bandwidth (-3 dB)	30 MHz Min.	32.5 MHz	31.85 MHz	31.85 MHz
3	Insertion Loss @ 125 MHz	2 dB Max.	1.29 dB	1.54 dB	1.69 dB
4	Passband Flatness	3 dB Max.	1.53 dB	1.83 dB	2.04 dB
5	VSWR	1.5:1 Max.	1.34:1	1.28:1	1.3:1
6	Rejection @ 100 MHz	40 dB Min.	52.4 dB	52.2 dB	50.6 dB
7	Rejection @ 150 MHz	40 dB Min.	47.5 dB	46.6 dB	46.8 dB
8	Input Power	1W Max.	1W	1W	1W

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