

TYPICAL CHARACTERISTICS ON BPF-437D5M542D5M-SFF

PMI MODEL: BPF-437D5M542D5M-SFF IS A BANDPASS FILTER WITH SMA FEMALE CONNECTORS



09/23/26

Designed by:
Engineering PMI

Tested By:
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Reported By:
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PRODUCT FEATURE

DESCRIPTION:

PMI MODEL: BPF-437D5M542D5M-SFF IS A BANDPASS FILTER WITH SMA FEMALE CONNECTORS.

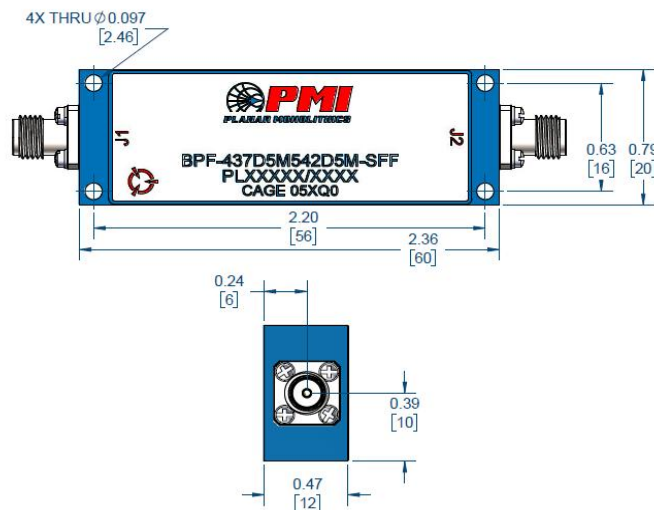
SPECIFICATIONS:

- PASSBAND FREQUENCY:..... 437.5 MHz TO 542.5 MHz
- CENTER FREQUENCY:..... 490 MHz
- INSERTION LOSS:..... 3 dB MAX
- PASSBAND RIPPLE:..... 0.5 dB MAX
- VSWR:..... 1.6:1 MAX
- REJECTION:..... 25 dB MIN @ DC TO 355 MHz
25 dB MIN @ 595 TO 800 MHz
80 dB MIN @ 1137.5 TO 6000 MHz
- INPUT POWER:..... 5 W CW MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... PAINTED BLUE

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +70°C (OPERATING)
- HUMIDITY:..... MIL-STD-202, METHOD 103 COND. B
- SHOCK:..... MIL-STD-202, METHOD 213 COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204 COND. B
- ALTITUDE:..... MIL-STD-202, METHOD 105 COND. B
- TEMPERATURE CYCLE:..... MIL-STD-202, METHOD 107 COND. A

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



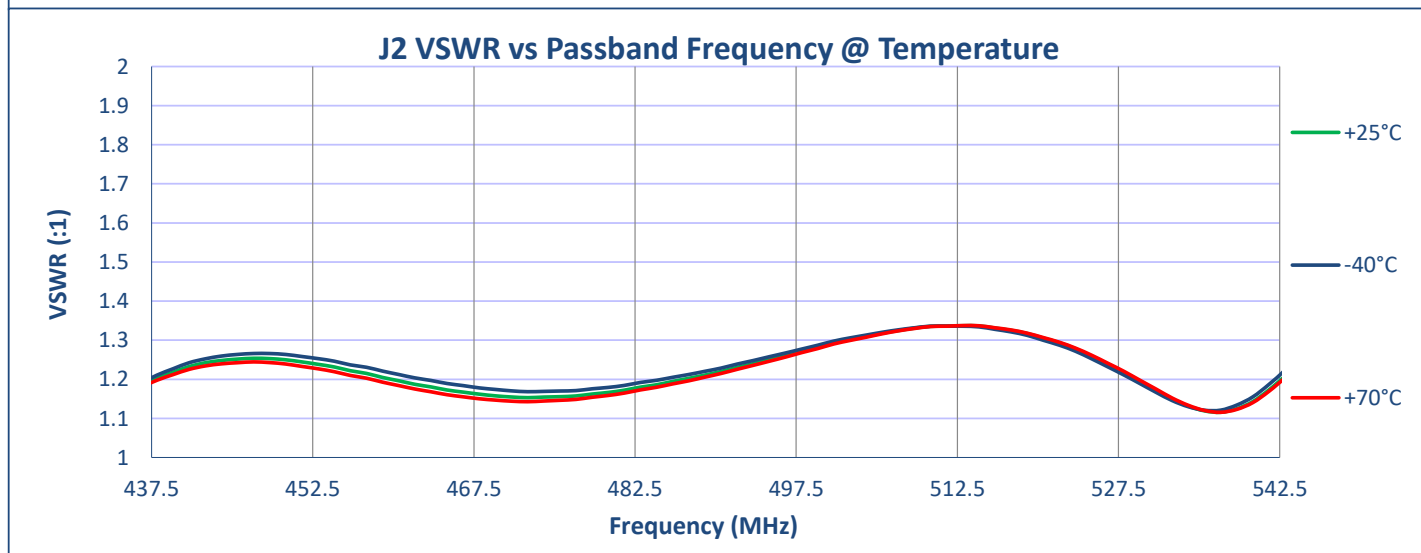
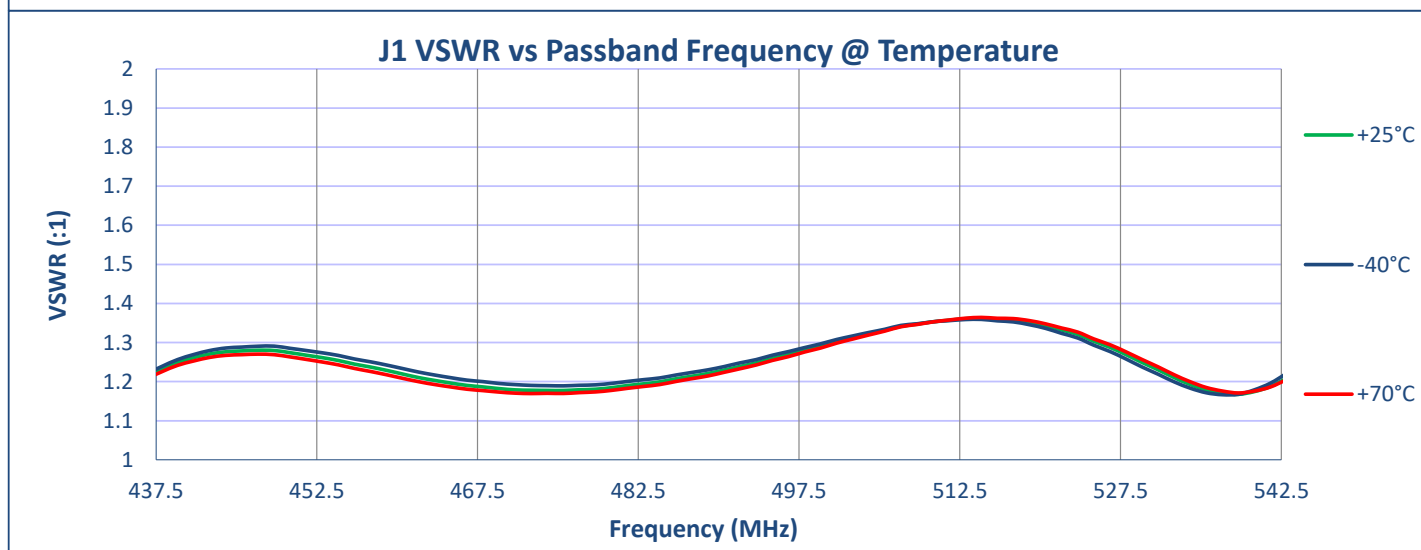
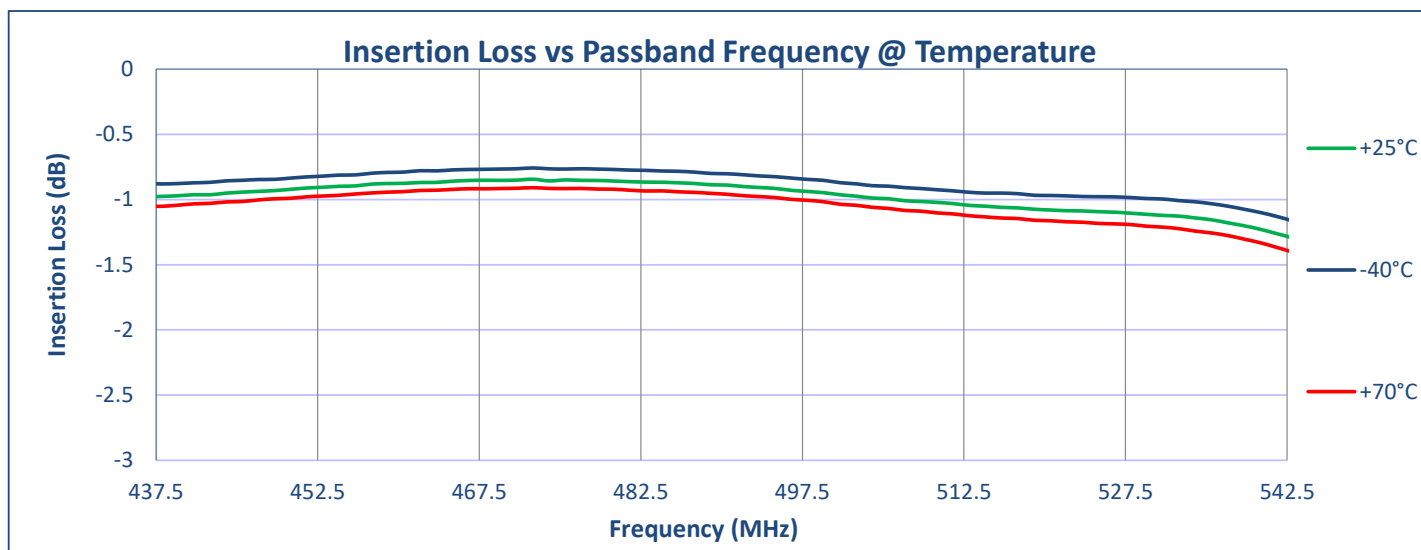
APPROVALS		DATE	TITLE	
DESIGN	IC	6/14/2028	OUTLINE	
DESIGNED			BPF-437D5M542D5M-SFF	
TESTED			REV	REV
			B	05XQ0
			27055100	A1
			SCALE 2:1	SHEET 1 OF 1

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Technical Specifications

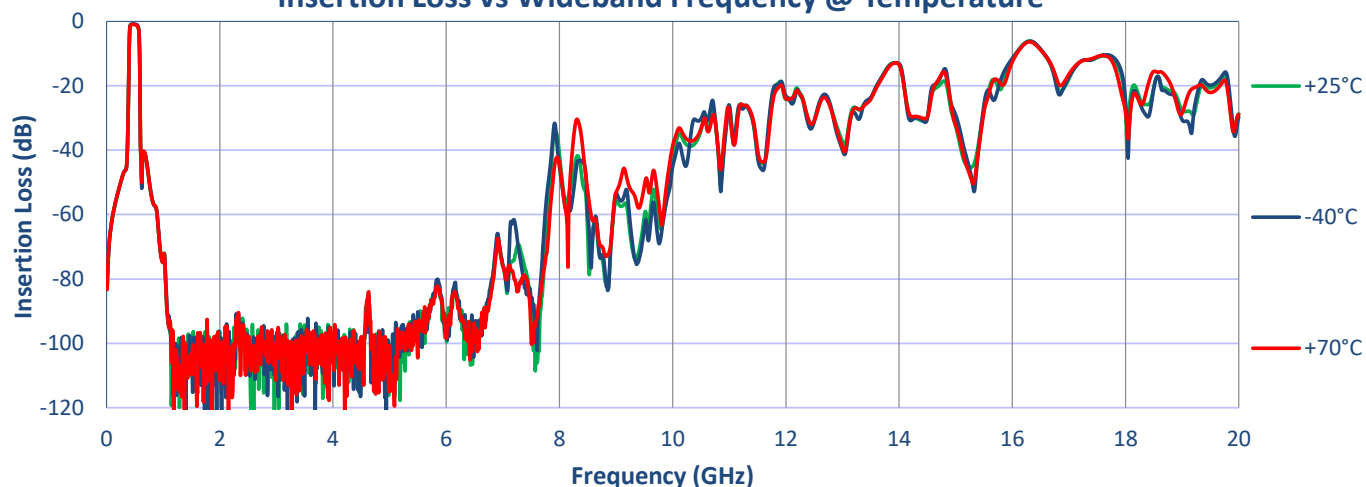
TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+70°C
1	Passband Frequency	437.5 to 542.5 MHz	437.5 to 542.5 MHz		
2	Insertion Loss	3 dB Max.	1.16 dB	1.29 dB	1.4 dB
3	Passband Ripple	0.5 dB Max.	0.41 dB	0.45 dB	0.49 dB
4	VSWR	1.6:1 Max.	1.4:1	1.4:1	1.4:1
5	Rejection @ DC to 355 MHz	25 dB Min.	44.7 dB	44.7 dB	44.7 dB
6	Rejection @ 595 to 800 MHz	25 dB Min.	39.4 dB	38.7 dB	38.2 dB
7	Rejection @ 1137.5 to 6000 MHz	80 dB Min.	80.1 dB	81.3 dB	82.3 dB
8	Input Power	5 W CW Max.	5 W CW		

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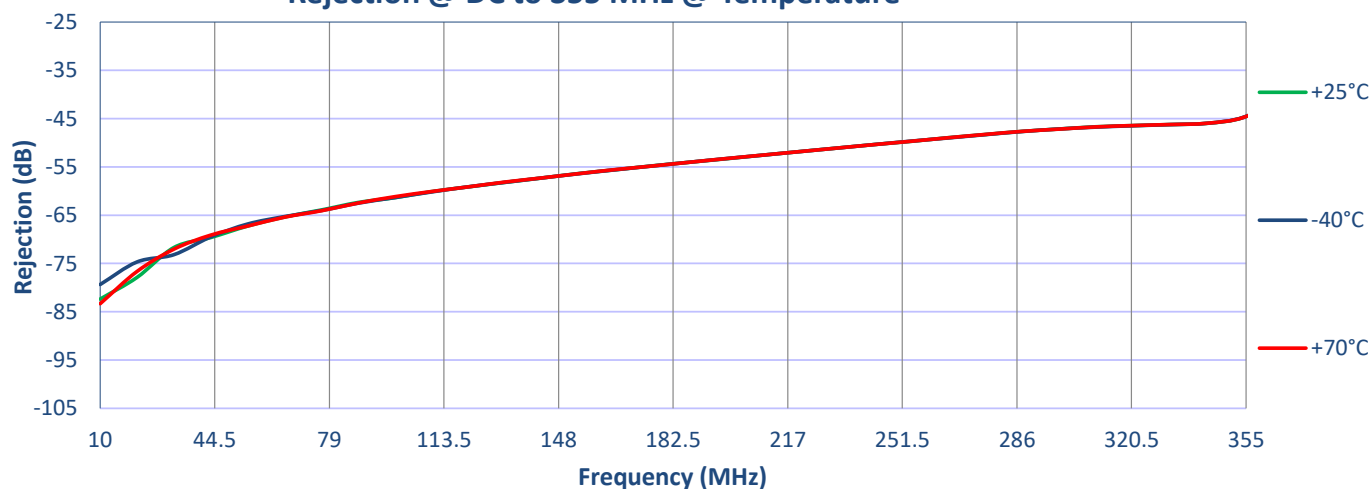


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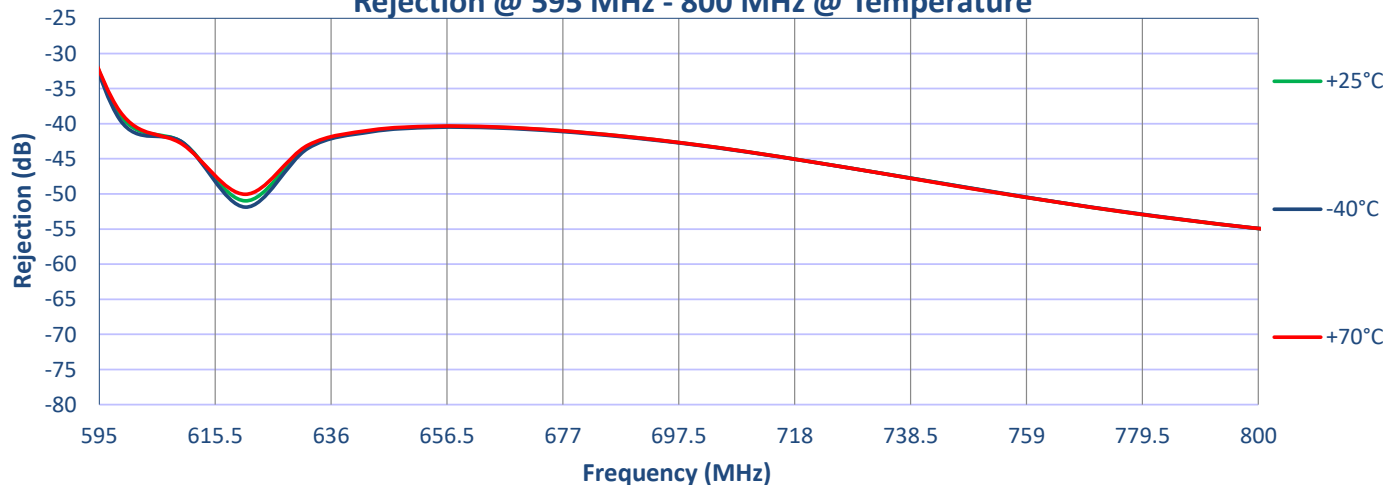
Insertion Loss vs Wideband Frequency @ Temperature



Rejection @ DC to 355 MHz @ Temperature



Rejection @ 595 MHz - 800 MHz @ Temperature



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