

TYPICAL CHARACTERISTICS ON BPF-2697D5M2902D5M-SFF-2

PMI MODEL: BPF-2697D5M2902D5M-SFF-2 IS A BANDPASS FILTER WITH SMA FEMALE CONNECTORS IN & OUT



Date: 9/14/2026

**Designed by:
Engineering PMI**

**Tested By:
Oliver K.**

**Reported By:
Erick C.**

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PRODUCT FEATURE

DESCRIPTION:

PMI MODEL: BPF-2697D5M2902D5M-SFF-2 IS A BANDPASS FILTER WITH SMA FEMALE CONNECTORS IN & OUT.

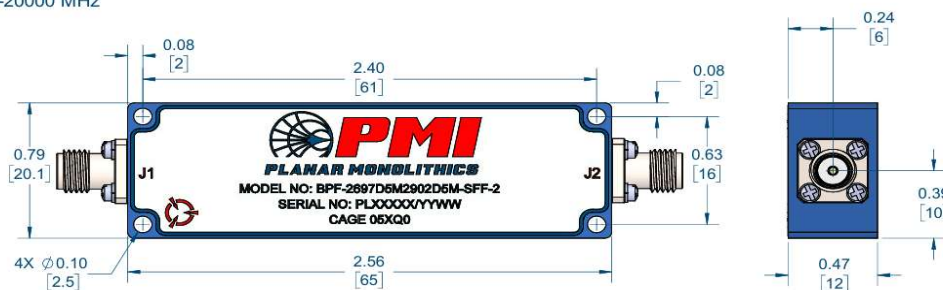
SPECIFICATIONS:

- PASSBAND FREQUENCY:..... 2697.5 TO 2902.5 MHz
- INSERTION LOSS:..... 2 dB MAX
- PASSBAND RIPPLE:..... 0.5 dB MAX
- VSWR:..... 1.6:1 MAX
- REJECTION:..... 60 dB MIN @ DC-1348 MHz
60 dB MIN @ 5395-8090 MHz
80 dB MIN @ 8090-18000 MHz
60 dB MIN @ 18000-20000 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



ZONE/REV	DESCRIPTION	DATE	APPROVED
A1	ORIGINAL RELEASE	5/13/2020	

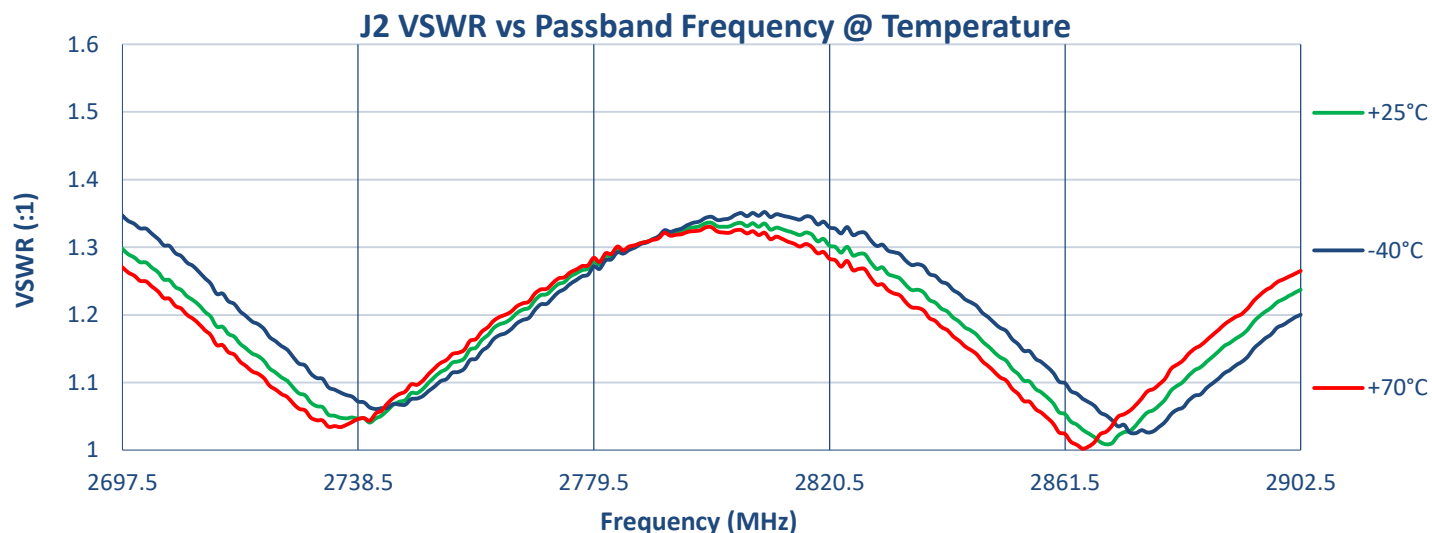
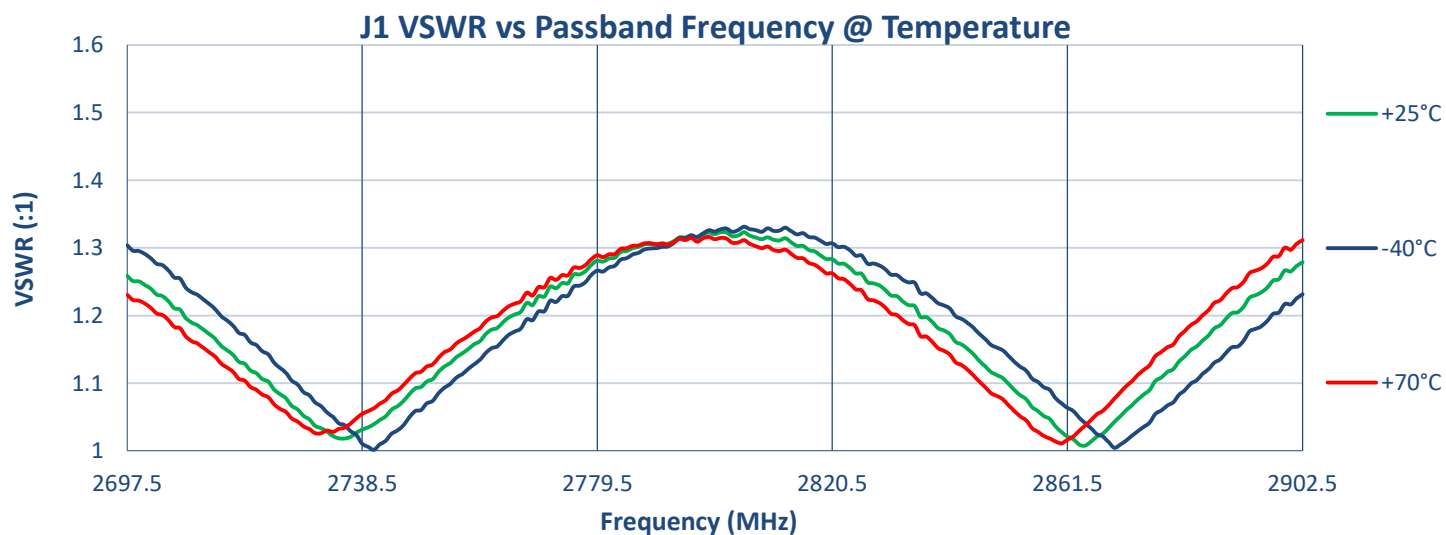
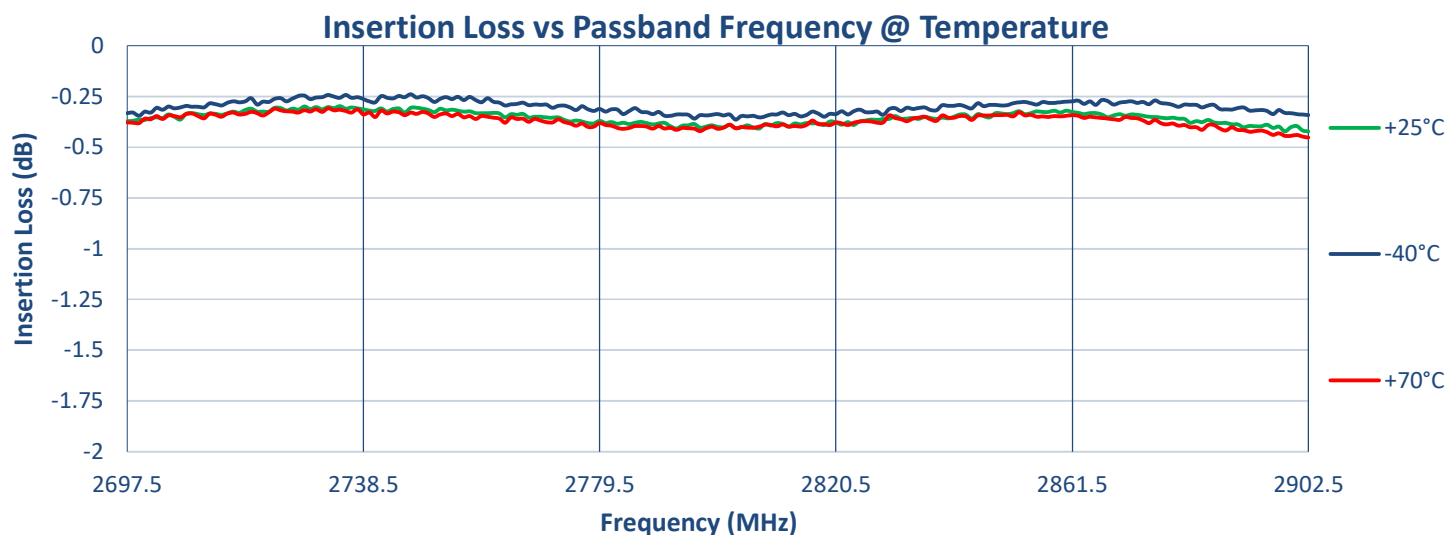
PMI CONFIDENTIAL AND PROPRIETARY			
APPROVALS		DATE	TITLE
DRAWN E. Castillo		5/13/2020	OUTLINE
REVISION			
ISSUED			
SIZE		FORM NO.	REV.
B		05XQ0	27055060
SCALE		2:1	A1
			SHEET 1 OF 1

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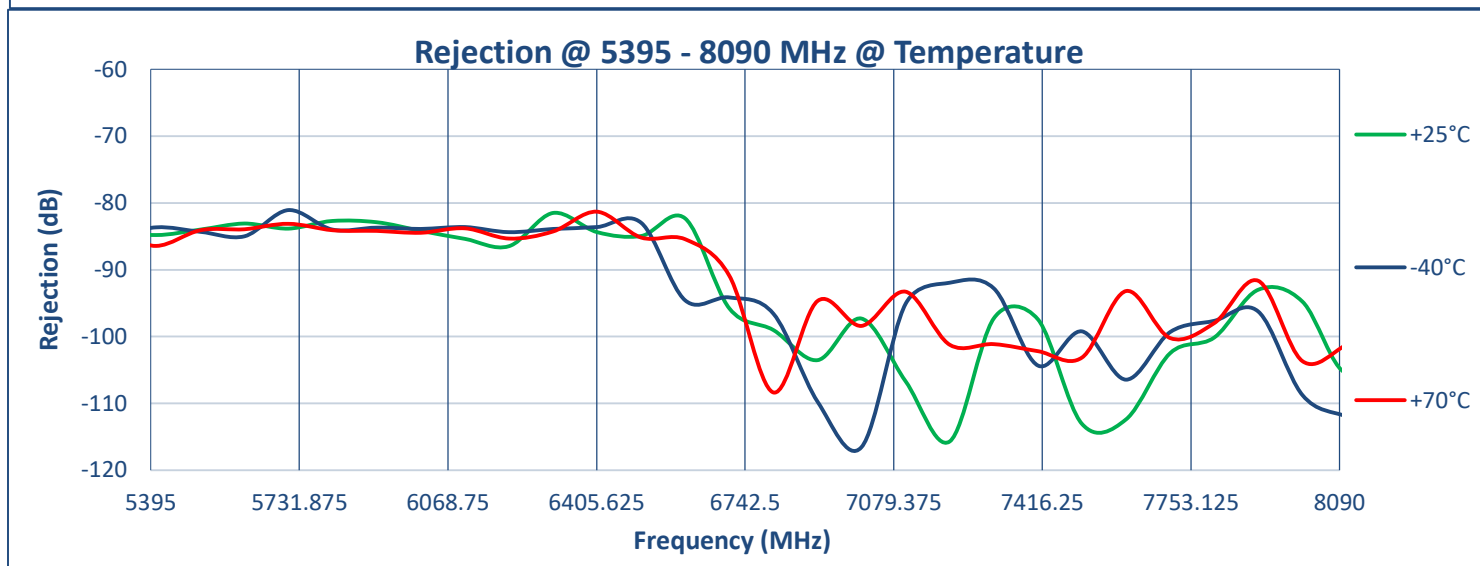
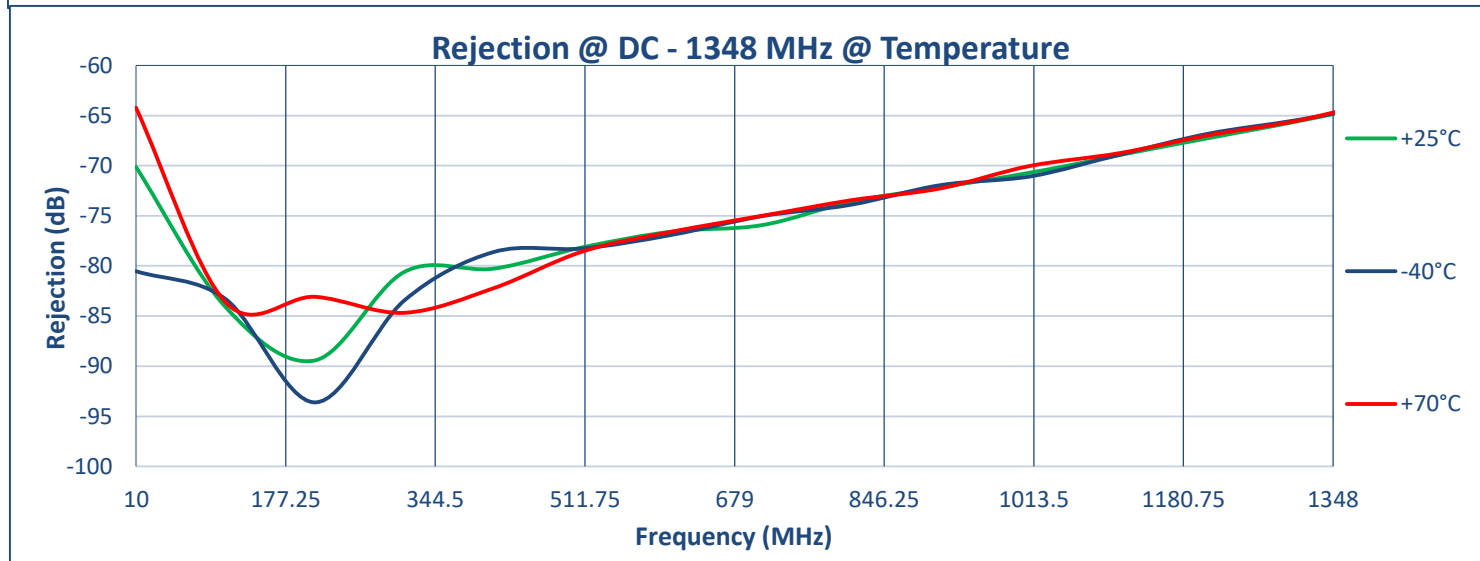
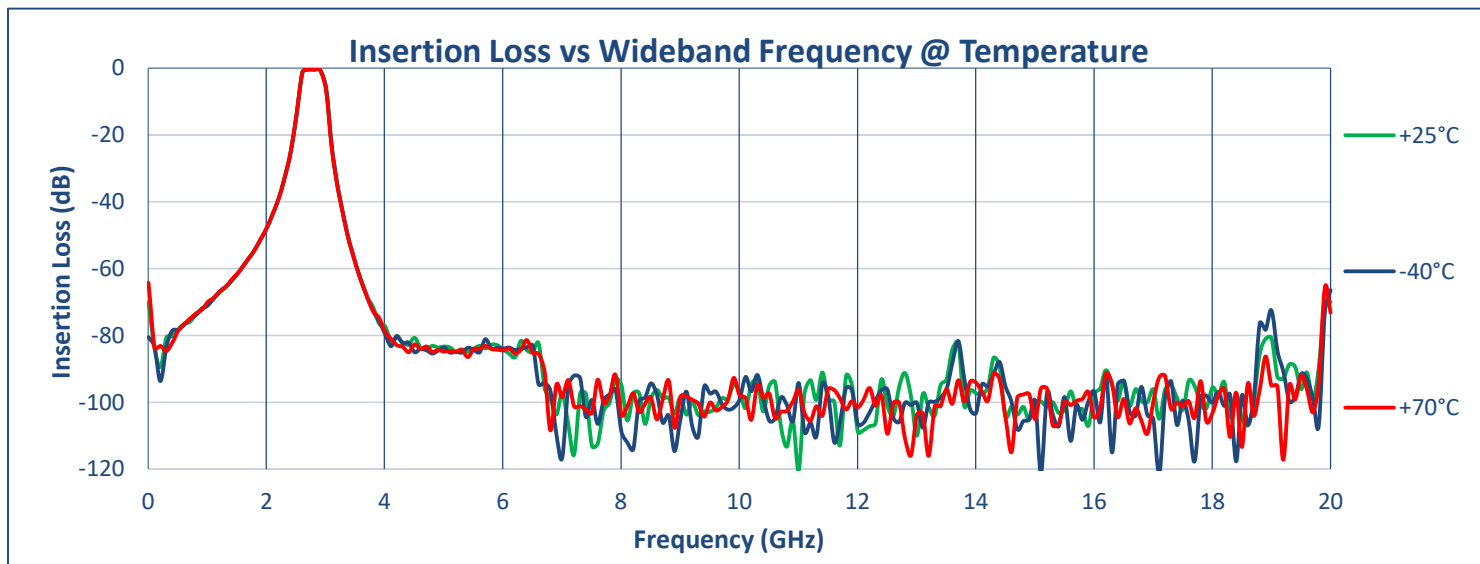
TECHNICAL SPECIFICATION

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+70°C
1	Passband Frequency	2697.5 to 2902.5 MHz	2697.5 to 2902.5 MHz		
2	Insertion Loss	2 dB Max.	0.36 dB	0.42 dB	0.45 dB
3	Passband Ripple	0.5 dB Max.	0.13 dB	0.12 dB	0.14 dB
4	VSWR	1.6:1 Max.	1.35:1	1.34:1	1.33:1
5	Rejection @ DC to 1348 MHz	60 dB Min.	65.4 dB	65.6 dB	64.2 dB
6	Rejection @ 5395 to 8090 MHz	60 dB Min.	81.1 dB	81.5 dB	81.3 dB
7	Rejection @ 8090 to 18000 MHz	80 dB Min.	81.7 dB	82.1 dB	91.3 dB
8	Rejection @ 18000 to 20000 MHz	60 dB Min.	66.4 dB	70 dB	65.7 dB
9	Input Power	5 W CW Max.	5 W CW		

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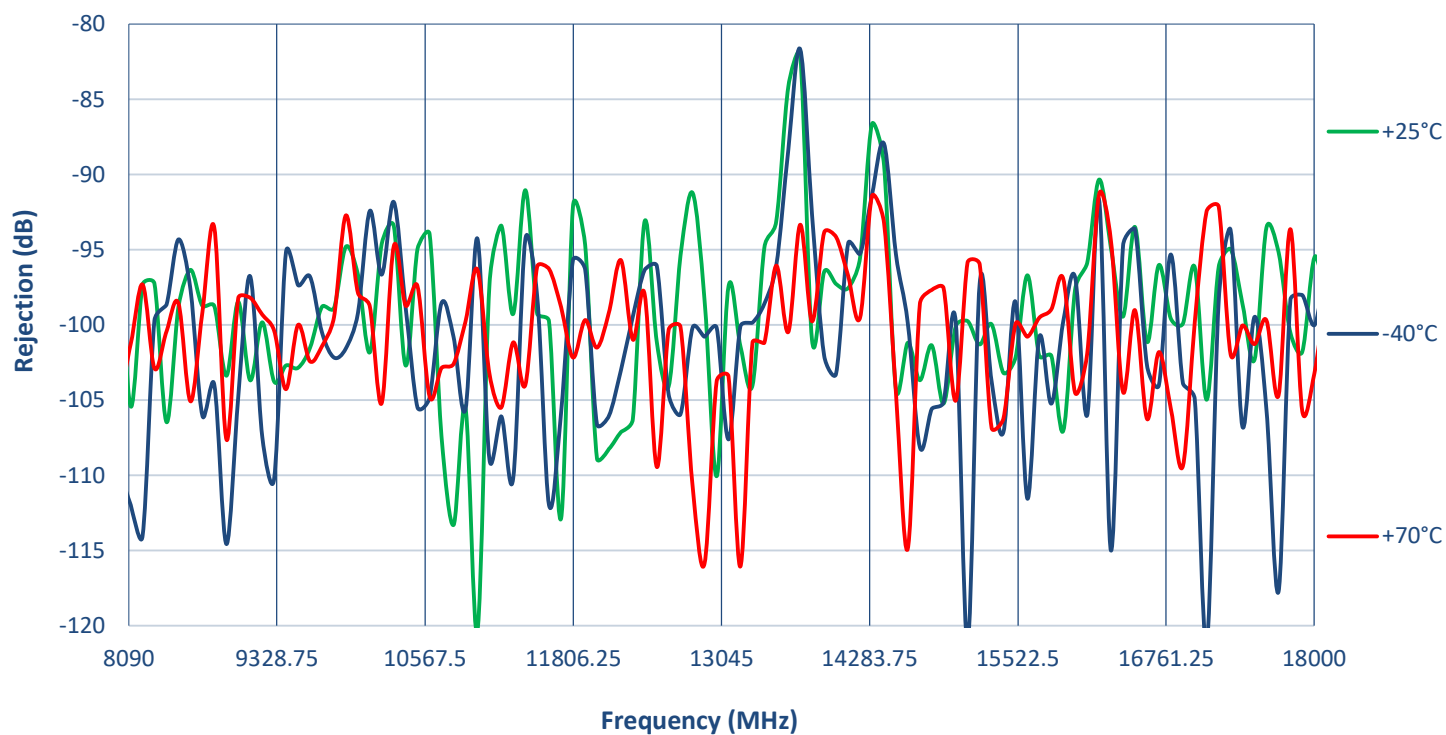


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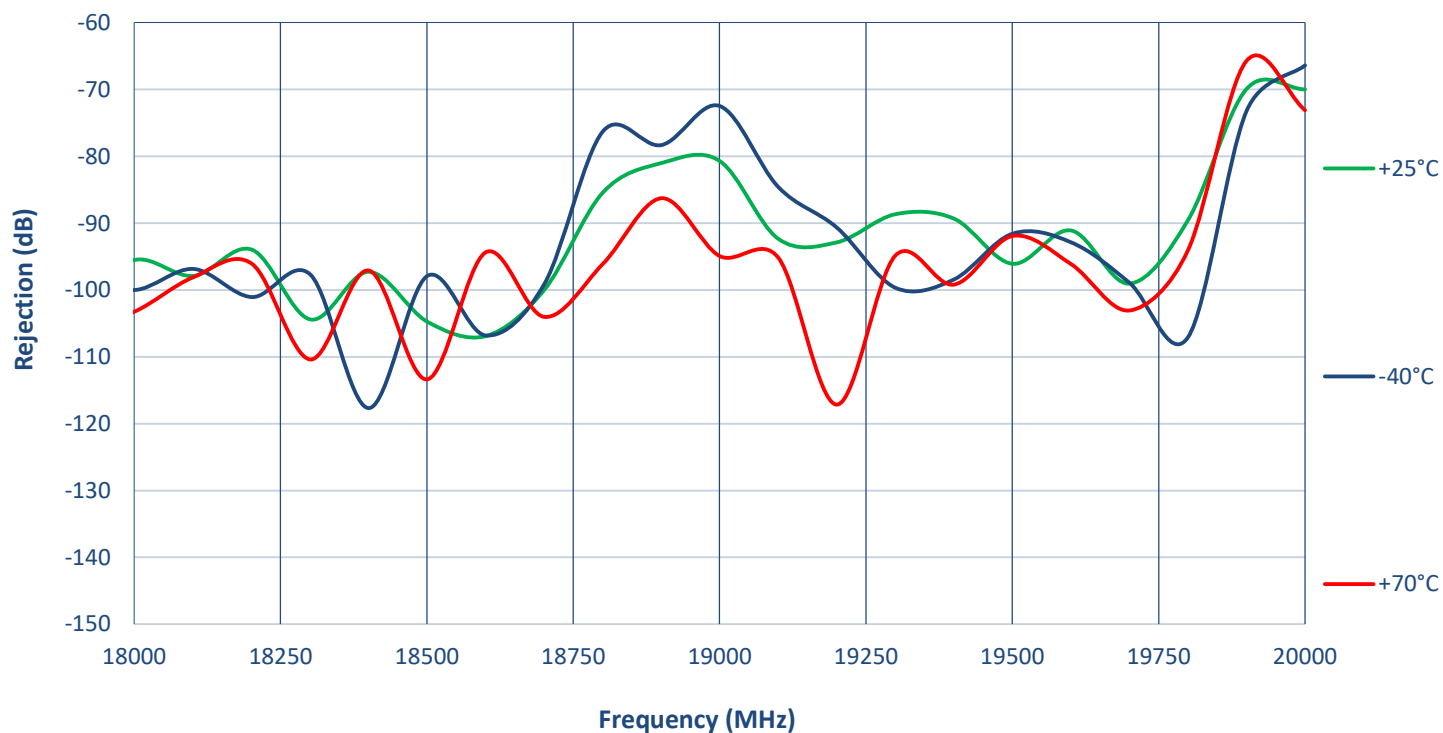


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Rejection @ 8090-18000 MHz @ Temperature

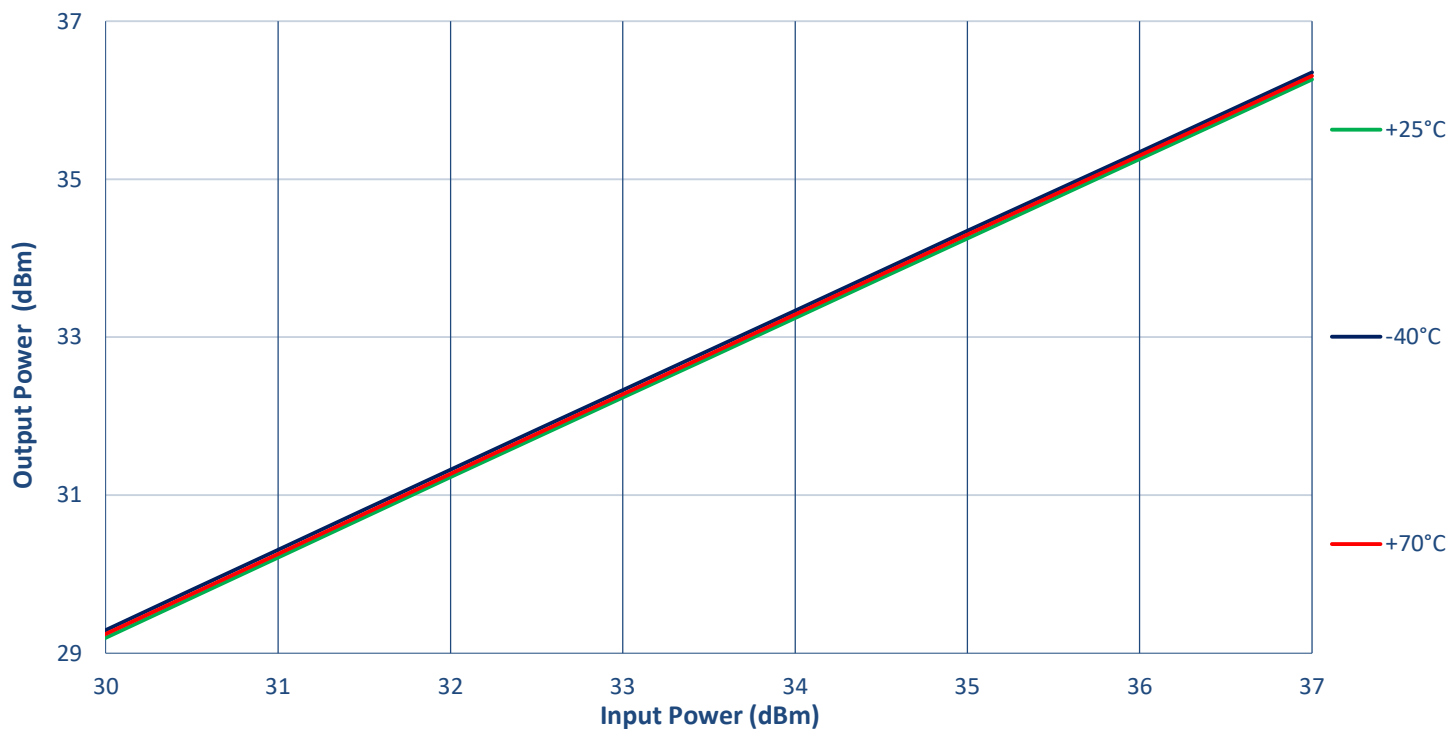


Rejection @ 18000-20000 MHz @ Temperature



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Input Vs Output Power @ 2697.5 MHz



Input Vs Output Power @ 2902.5 MHz

