TYPICAL CHARACTERITICS
ON
BPF-12G-12G-SFF

PMI MODEL: BPF-12G-12G-SFF IS A BANDPASS FILTER WITH SMA FEMALE TO MALE CONNECTOR



9/26/2026

Designed by:
Engineering PMI

Tested By:
Oliver K.

Reported By:
Erick C.

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Email: sales@quanticpmi.com

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PRODUCT FEATURE

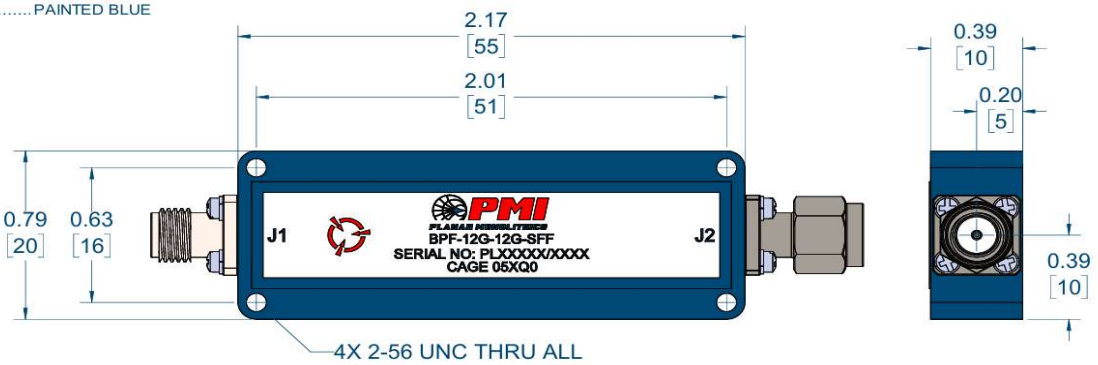
DESCRIPTION:

PMI MODEL NUMBER: BPF-12G-12G-SFF IS A BANDPASS FILTER WITH A CENTER FREQUENCY OF 12 GHz, A PASSBAND OF 6 GHz TO 18 GHz, A MAXIMUM INSERTION LOSS OF 2 dB, AND A MAXIMUM VSWR OF 1.8:1.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/27/2026	

SPECIFICATIONS:

- PASSBAND FREQUENCY:..... 6 GHz TO 18 GHz
- CENTER FREQUENCY:..... 12 GHz
- INSERTION LOSS:..... 2 dB MAX.
- VSWR:..... 1.8:1 MAX.
- REJECTION @ DC-5.6 GHz:..... 30 dBc MIN.
- REJECTION @ 19.5-20 GHz:..... 30 dBc MIN.
- INPUT POWER:..... 10 W CW MAX.
- CONNECTORS:..... J1: SMA FEMALE
  J2: SMA MALE
- FINISH:..... PAINTED BLUE



ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +70°C (OPERATING)
  -55°C TO +125°C (STORAGE)
- 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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN: T. GEARHEART	5/27/2026
REDRAWN	
ISSUED	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ± DECIMALS XX ± 0.02 XXX ± 0.01 ANGLES ±

PMI PLANAR MONOLITHICS
7309-A GROVE ROAD FREDERICK, MD 21704 USA
WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM
ISO 9001 CERTIFIED

TITLE: OUTLINE
BPF-12G-12G-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27055160	A1

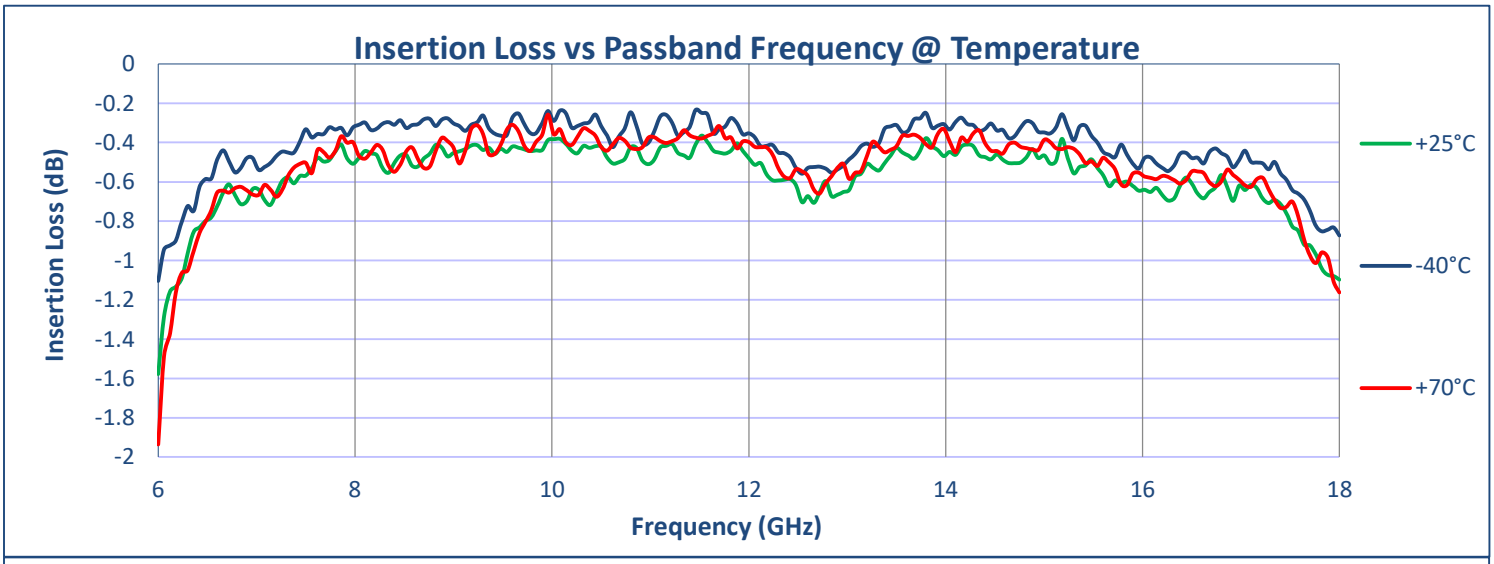
SCALE 2.5:1 SHEET 1 OF 1

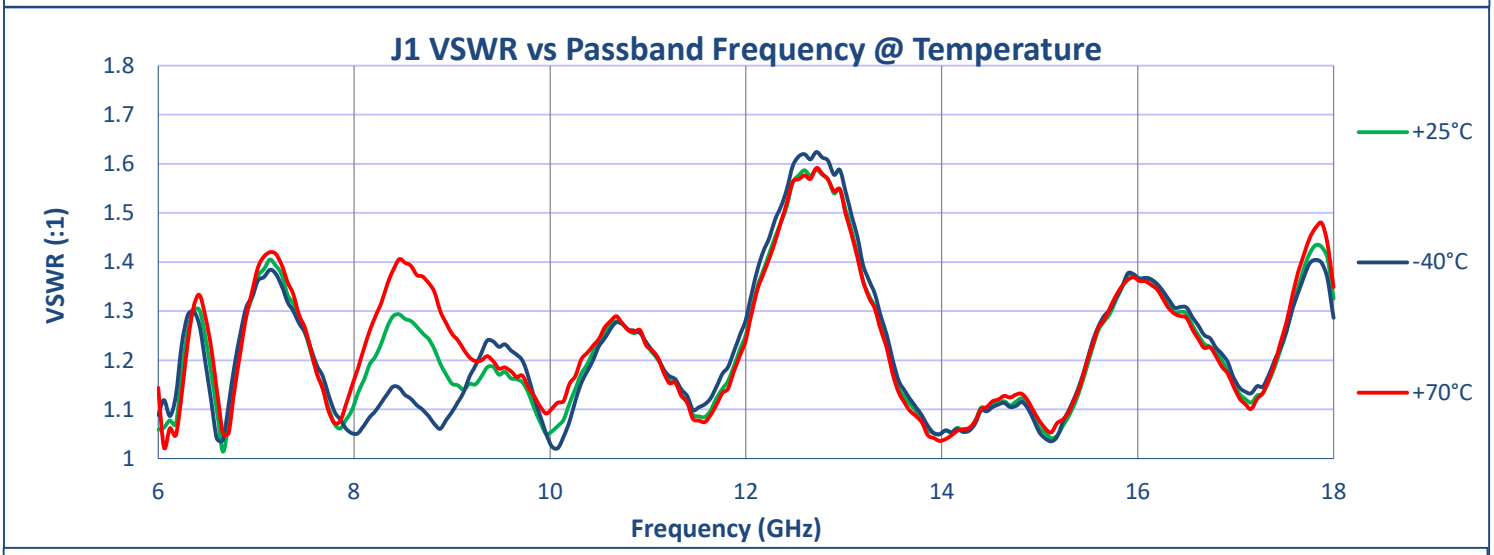
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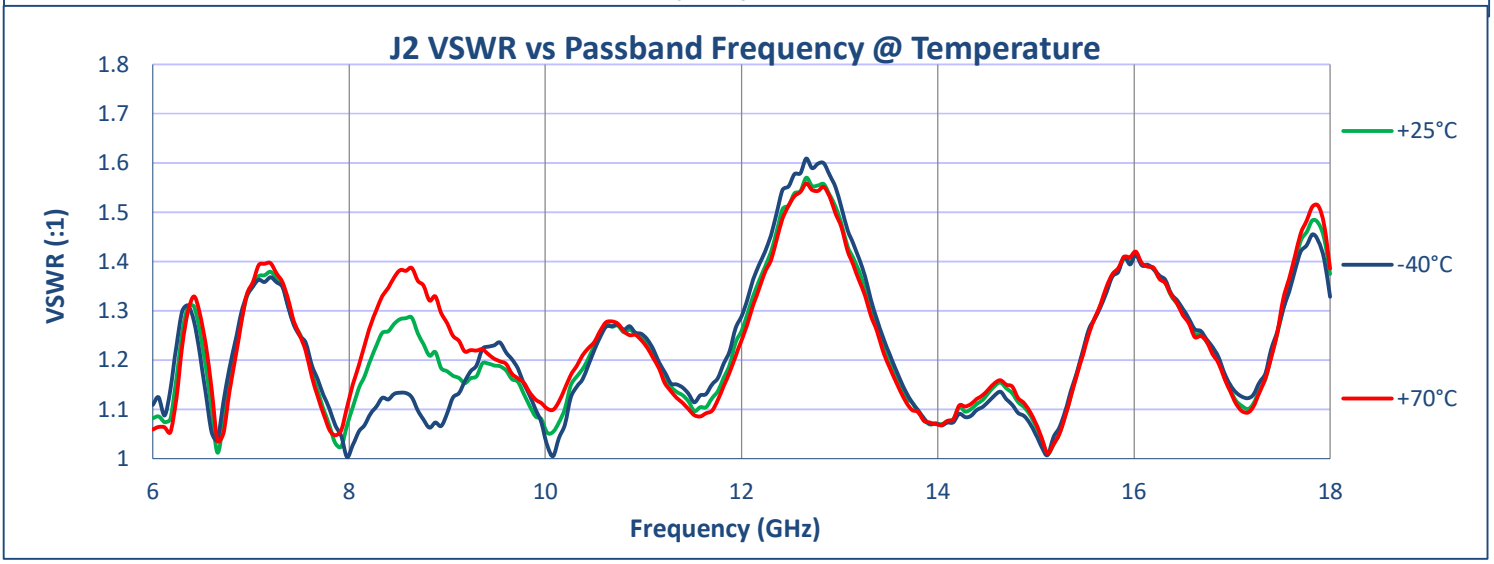
TECHNICAL SPECIFICATION

TEST ITEM	PARAMETERS	SPECIFIED VALUE	TEST RESULTS		
			-40°C	+25°C	+70°C
1	Passband Frequency	6 GHz To 18 GHz	**6 GHz To 18 GHz**		
2	Center Frequency	12 GHz	**12 GHz**	**12 GHz**	**12.1 GHz**
3	Insertion Loss	2 dB Max.	**1.1 dB**	**1.58 dB**	**1.94 dB**
4	VSWR	1.8:1 Max.	**1.62:1**	**1.59:1**	**1.59:1**
5	Rejection @ DC - 5.6 GHz	30 dBc Min.	**49.9 dBc**	**60.3 dBc**	**61.1 dBc**
6	Rejection @ 19.5 - 20 GHz	30 dBc Min.	**51.5 dBc**	**52.4 dBc**	**52.9 dBc**
7	Input Power	10 W CW Max.	**10 W CW**		

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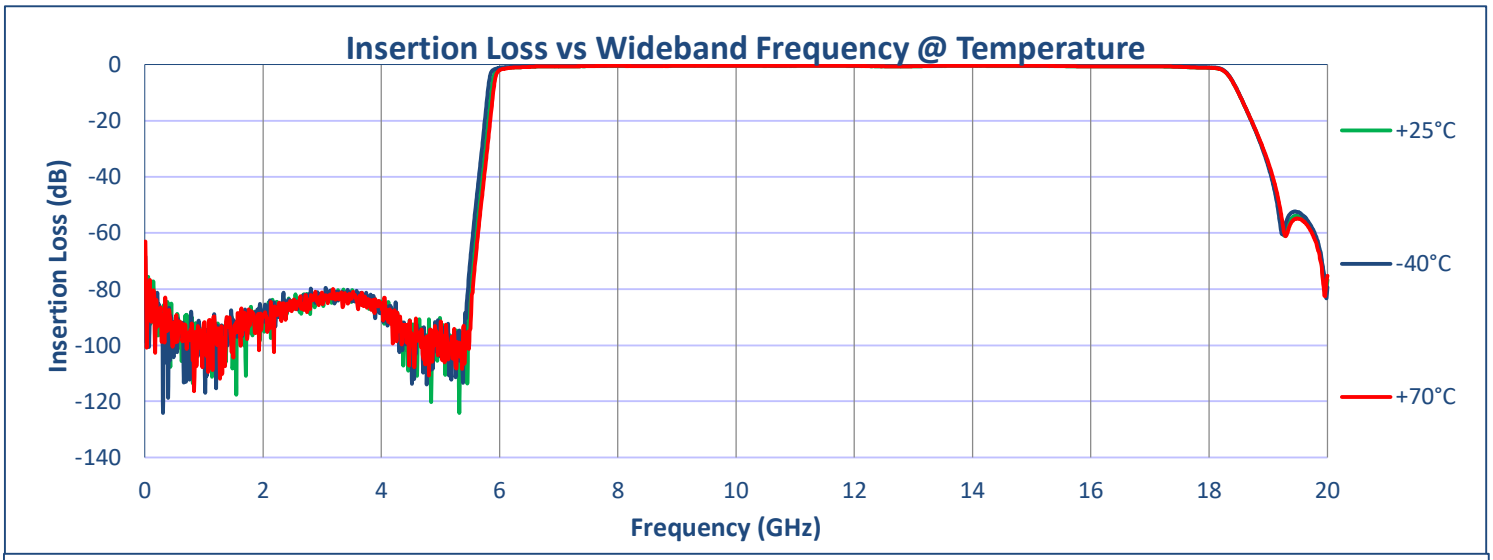


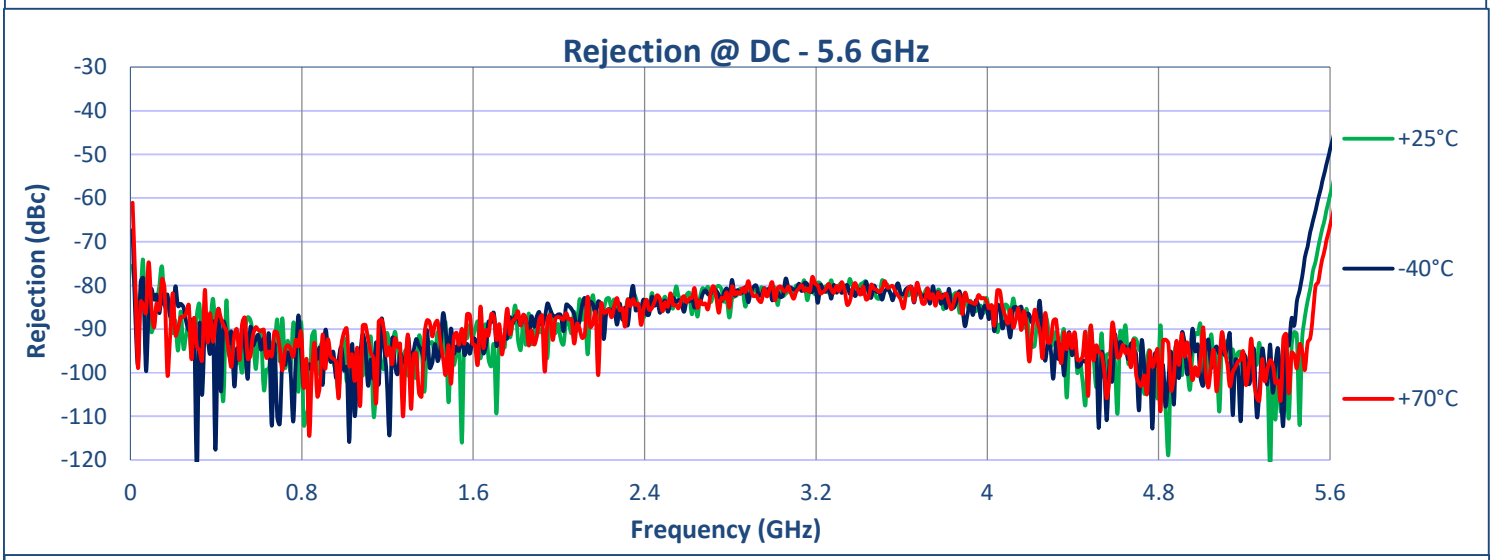


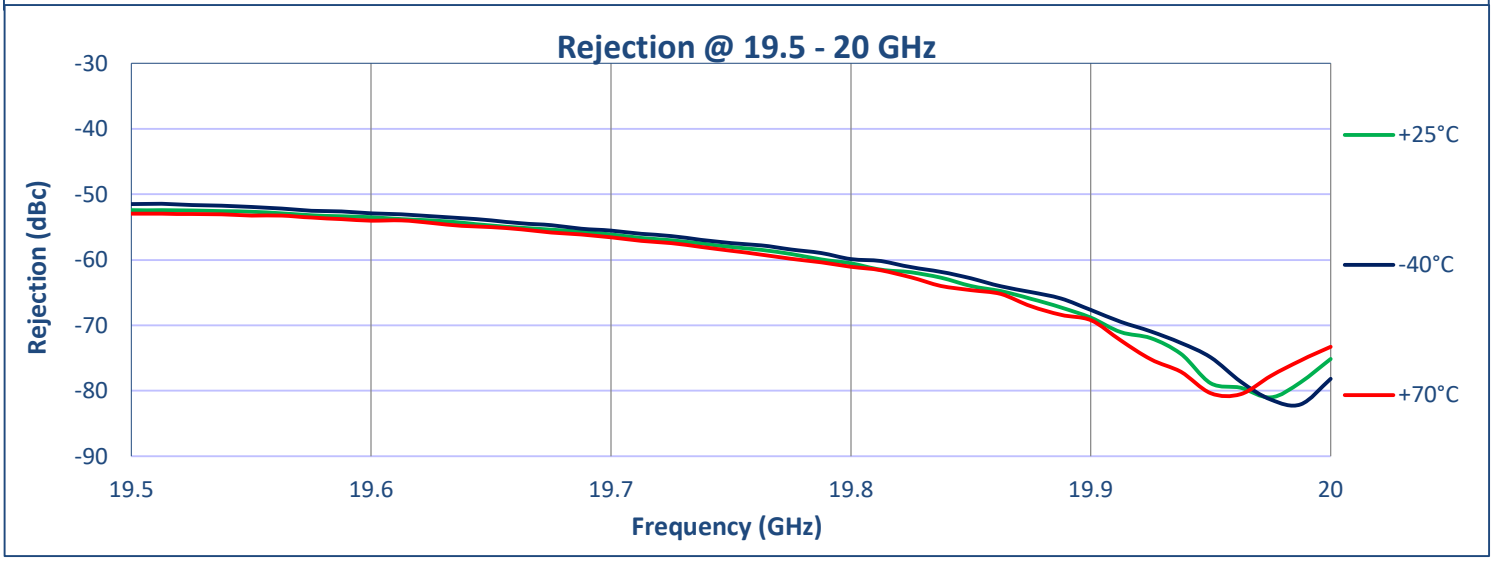


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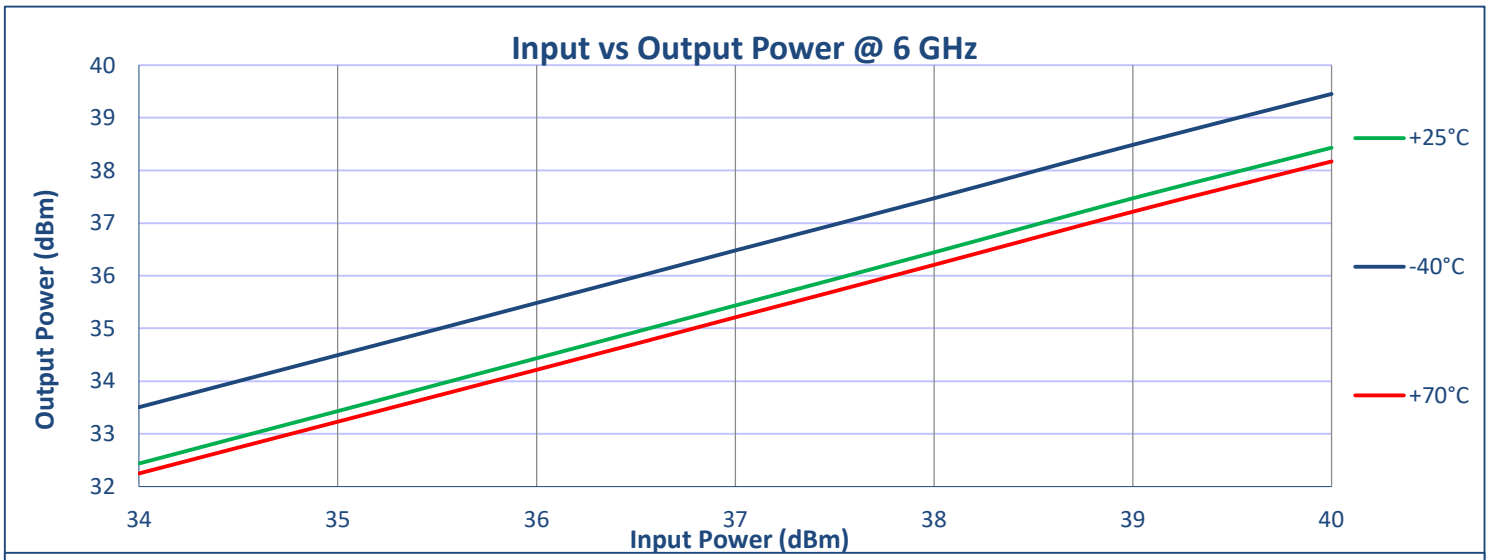


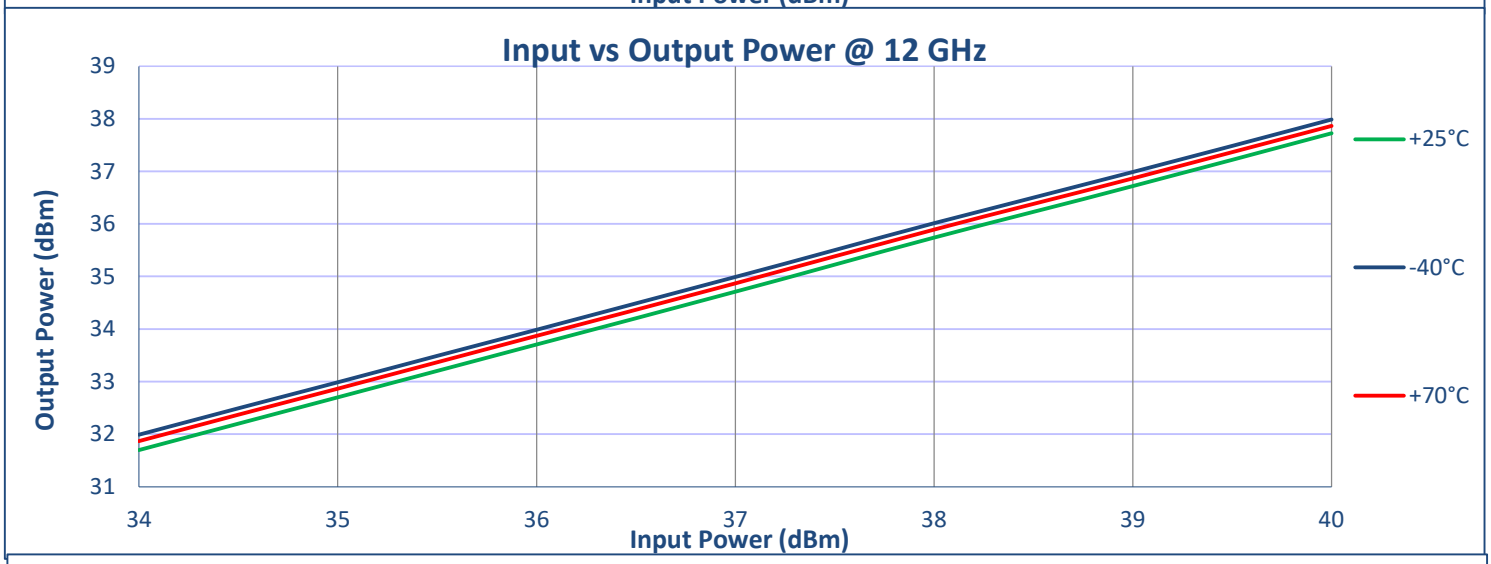


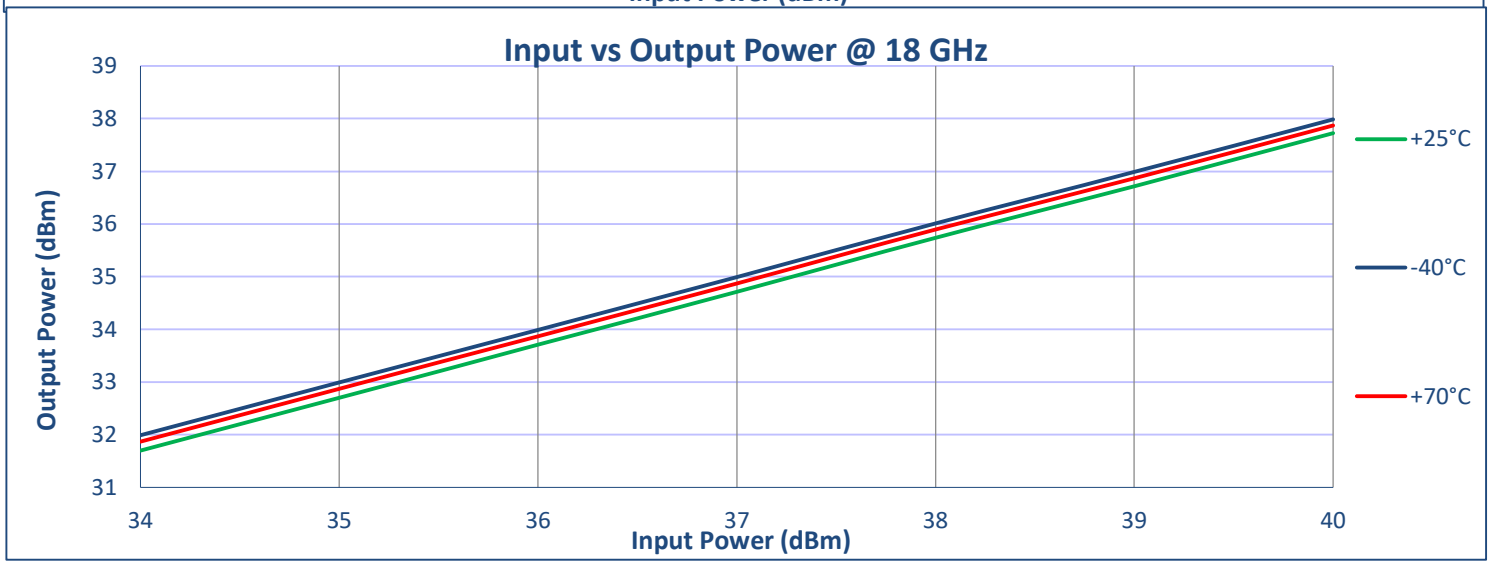


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