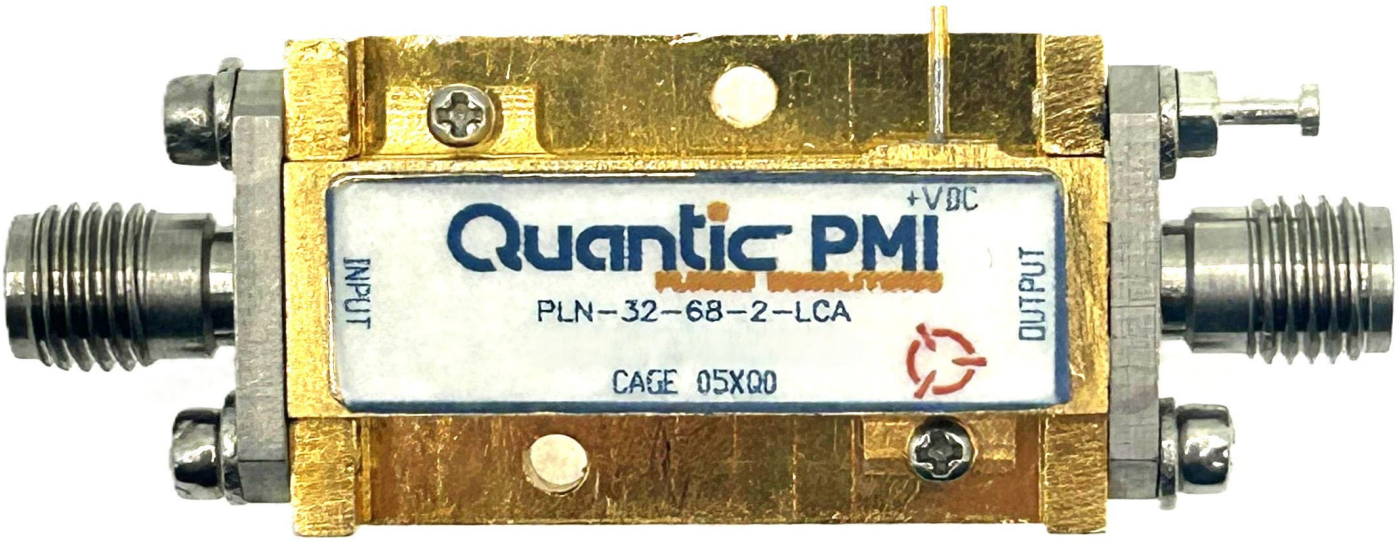
Typical Characteristics ON PLN-32-68-2-LCA

PMI MODEL NUMBER PLN-32-68-2-LCA IS A 6 TO 8 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



DATE
July 10, 2025

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Typical Characteristics
ON
PLN-32-68-2-LCA

Outline Drawing

DESCRIPTION:
PMI MODEL NUMBER PLN-32-68-2-LCA IS A 6 TO 8 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT.

SPECIFICATIONS:

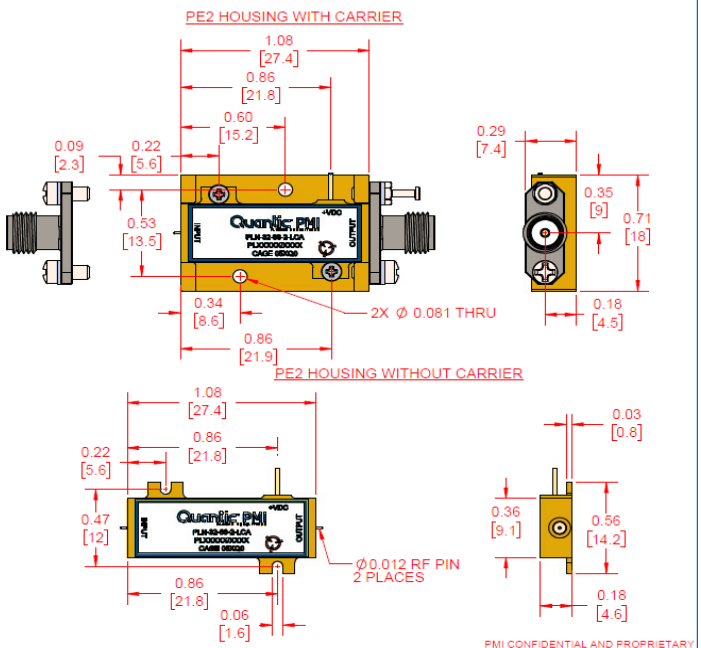
- FREQUENCY RANGE: 6 TO 8 GHz
- GAIN: 26 dB TYP
  25 dB MIN
- GAIN FLATNESS: ±1.25 dB MAX
  ±0.75 dB TYP
- NOISE FIGURE: 2 dB MAX
  1.2 dB TYP
- OP1dB: +2 dBm MIN
- VSWR (INPUT/OUTPUT): 2:1 MAX
- DC VOLTAGE SUPPLY: +12 to +15 VDC
- DC CURRENT DRAW: 60 mA MAX
  50 mA TYP
- CONNECTORS: SMA FEMALE
- FINISH: GOLD PLATED

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
- 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	7/11/2025	



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN: R. SIRK	7/11/2025
REDRAWN	
ISSUED	

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

TITLE: OUTLINE
PLN-32-68-2-LCA

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	PLN-32-68-2-LCA OUTLINE	A1

SCALE 2:1 SHEET 1 OF 1

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Quantic PMI
PLANAR MONOLITHICS

Typical Characteristics ON PLN-32-68-2-LCA

Technical Specifications

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-55°C	+85°C
1	Frequency Range:	6 TO 8 GHz	**6 TO 8 GHz**	**6 TO 8 GHz**	**6 TO 8 GHz**
2	Gain:	26 dB TYP 25 dB MIN	**+25.89 dB Min.** **+27.24 dB Max.** **See Graph**	**+26.33 dB Min.** **+27.76 dB Max.** **See Graph**	**+25.54 dB Min.** **+26.82 dB Max.** **See Graph**
3	Gain Flatness:	±1.25 dB MAX ±0.75 dB TYP	**+0.67 dB** **-0.68 dB** **See Graph**	**+0.72 dB** **-0.72 dB** **See Graph**	**+0.64 dB** **-0.64 dB** **See Graph**
4	Noise Figure:	2 dB MAX 1.2 dB TYP	**1.26 dB** **See Graph**	**0.98 dB** **See Graph**	**1.56 dB** **See Graph**
5	OP1dB:	12 dBm TYP 2 dBm MIN	**+12.86 dBm** **See Graph**	**+12.25 dBm** **See Graph**	**+13.8 dBm** **See Graph**
6	VSWR In/Out:	2:1 MAX	**Input: 1.6 :1** **Output: 1.8 :1** **See Graph**	**Input: 1.65 :1** **Output: 1.83 :1** **See Graph**	**Input: 1.54 :1** **Output: 1.77 :1** **See Graph**
7	DC Supply:	+12 to +15 VDC @ 50 mA TYP 60 mA MAX	**+12 to +15 VDC** **@ 49 mA**	**+12 to +15 VDC** **@ 47 mA**	**+12 to +15 VDC** **@ 49 mA**

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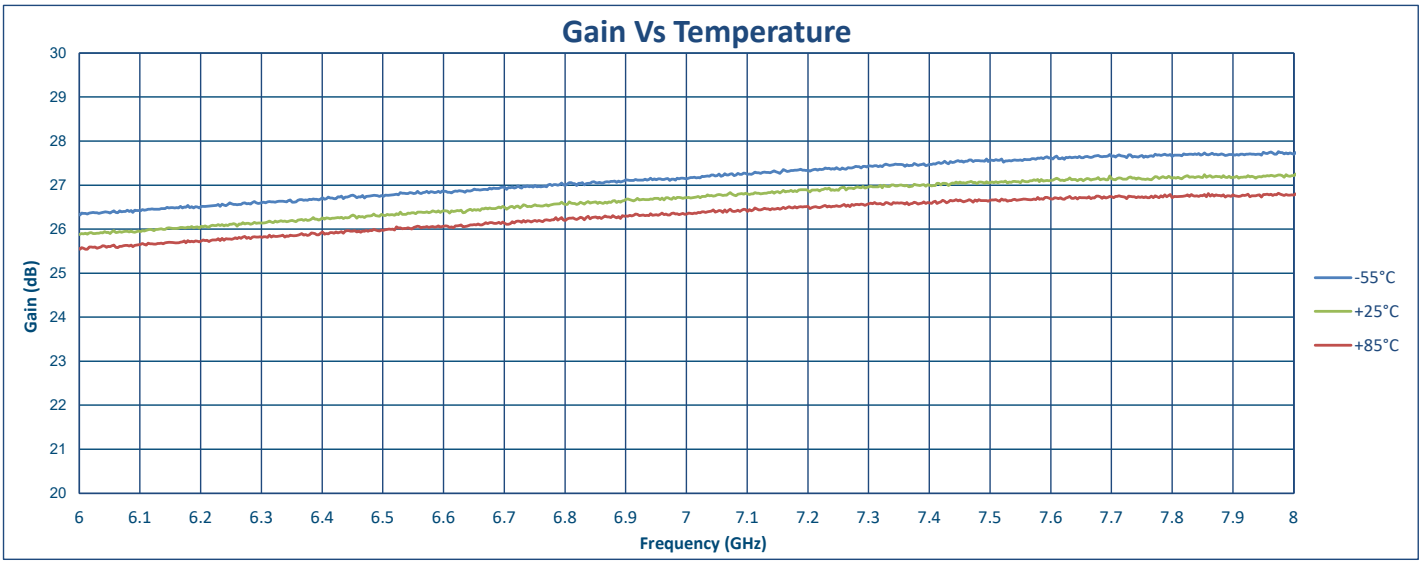

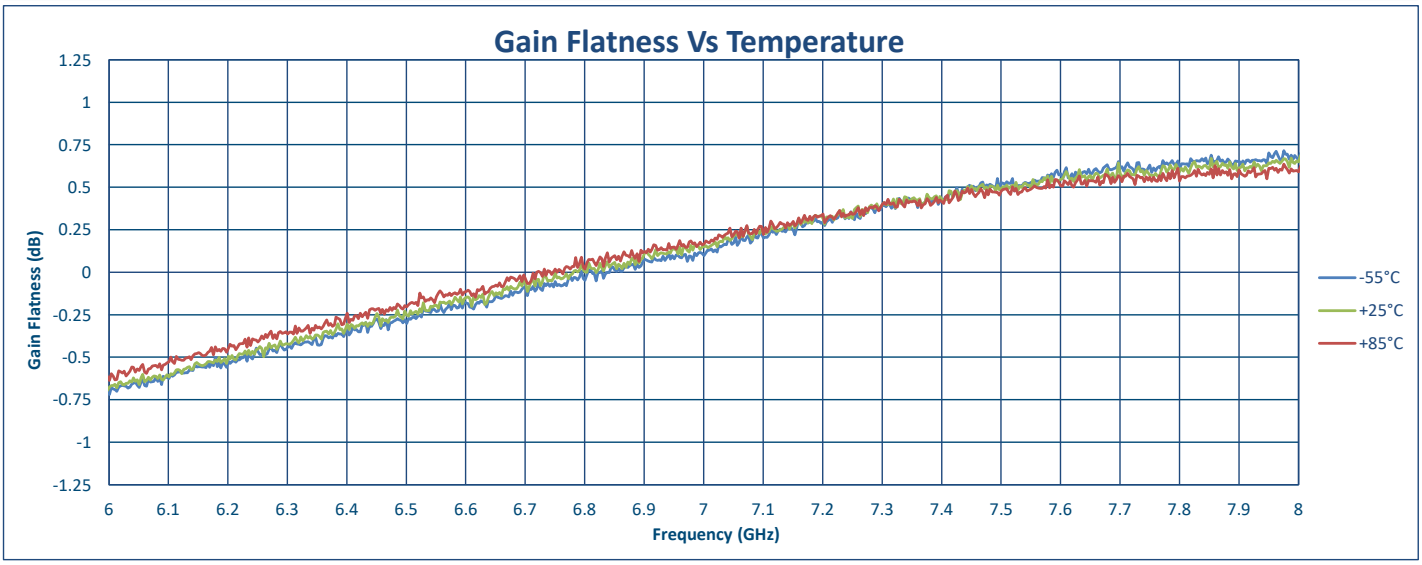

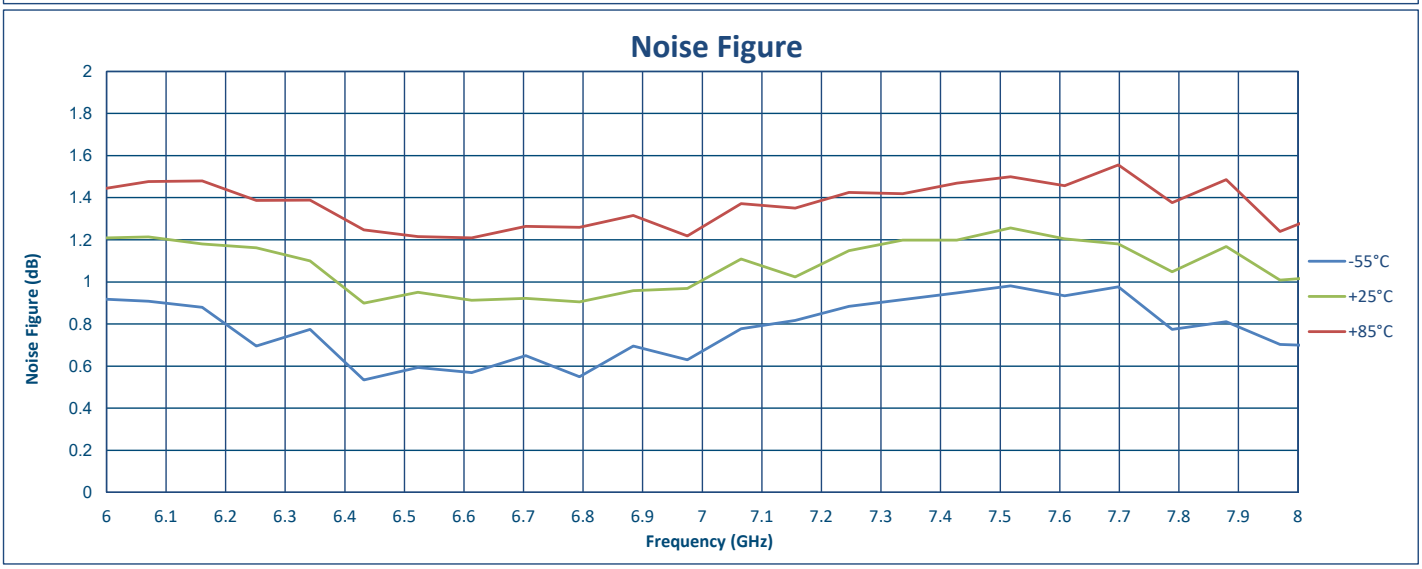

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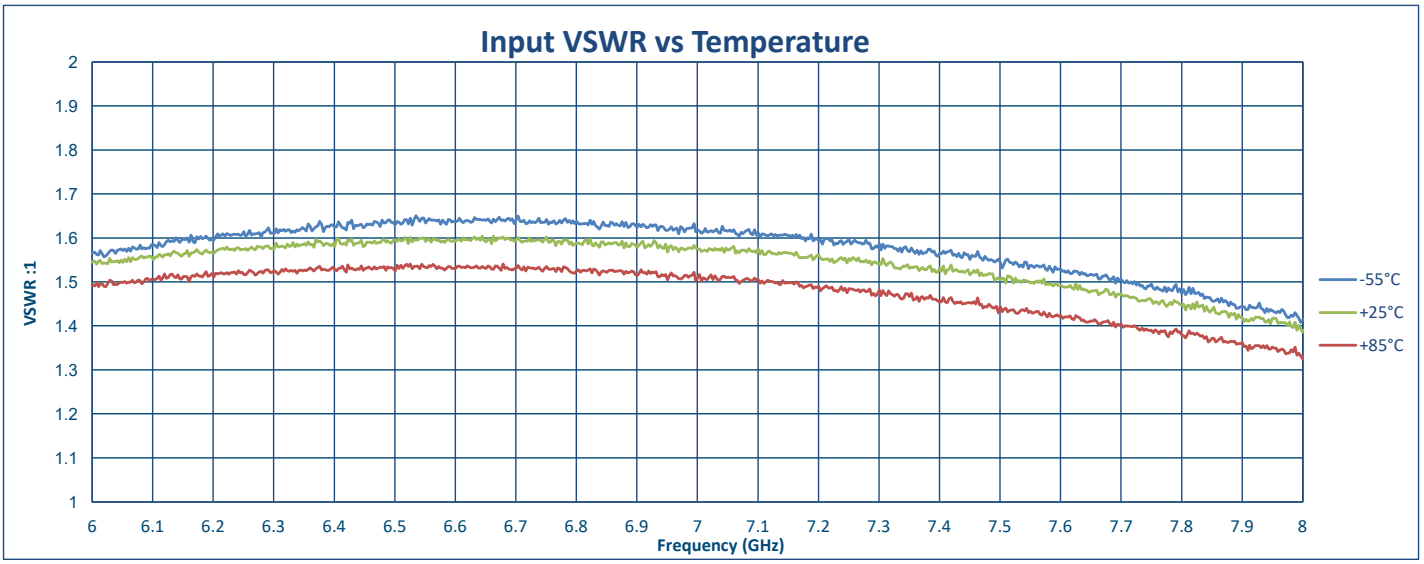

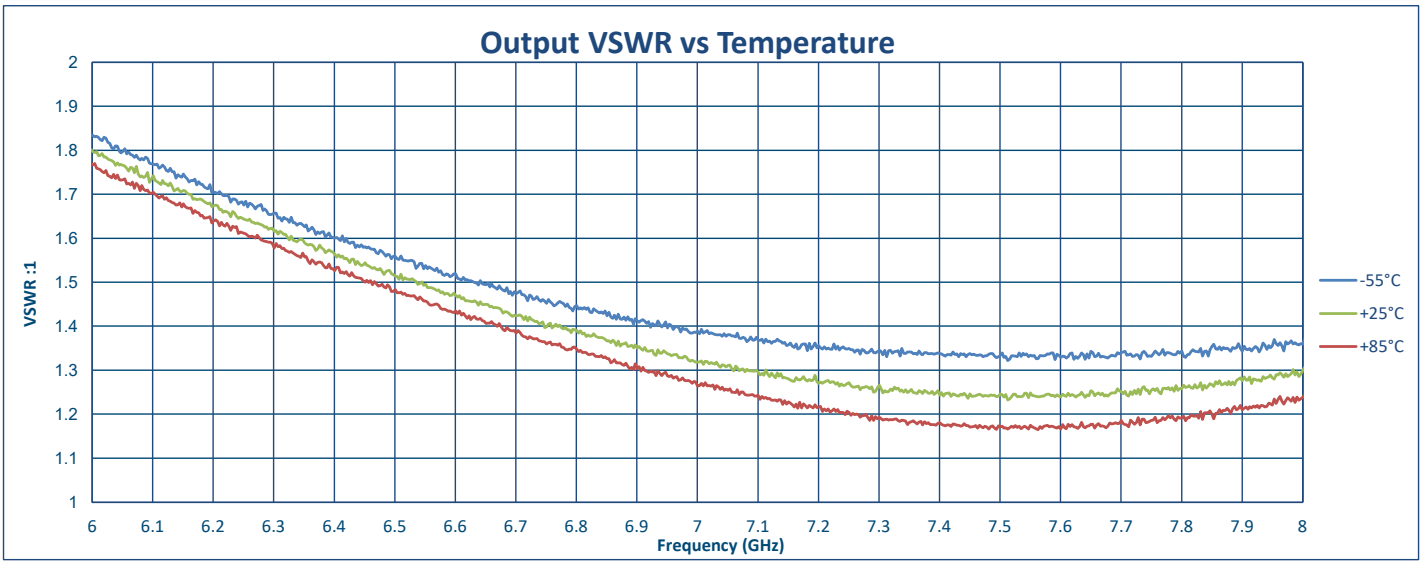

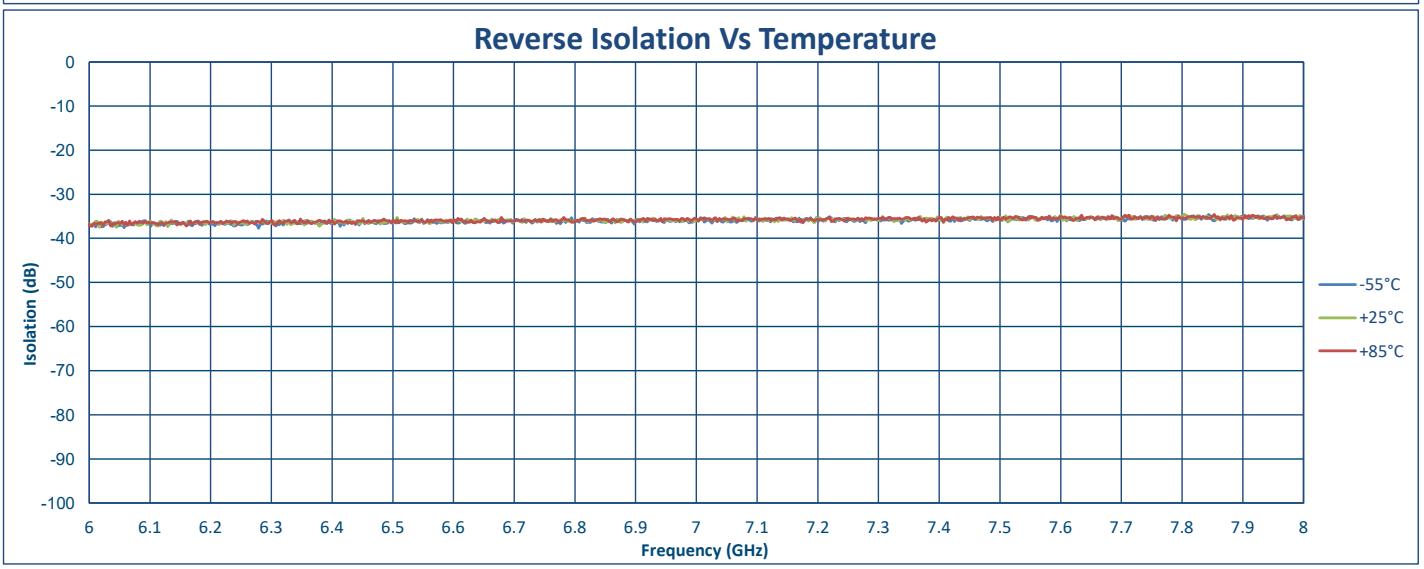

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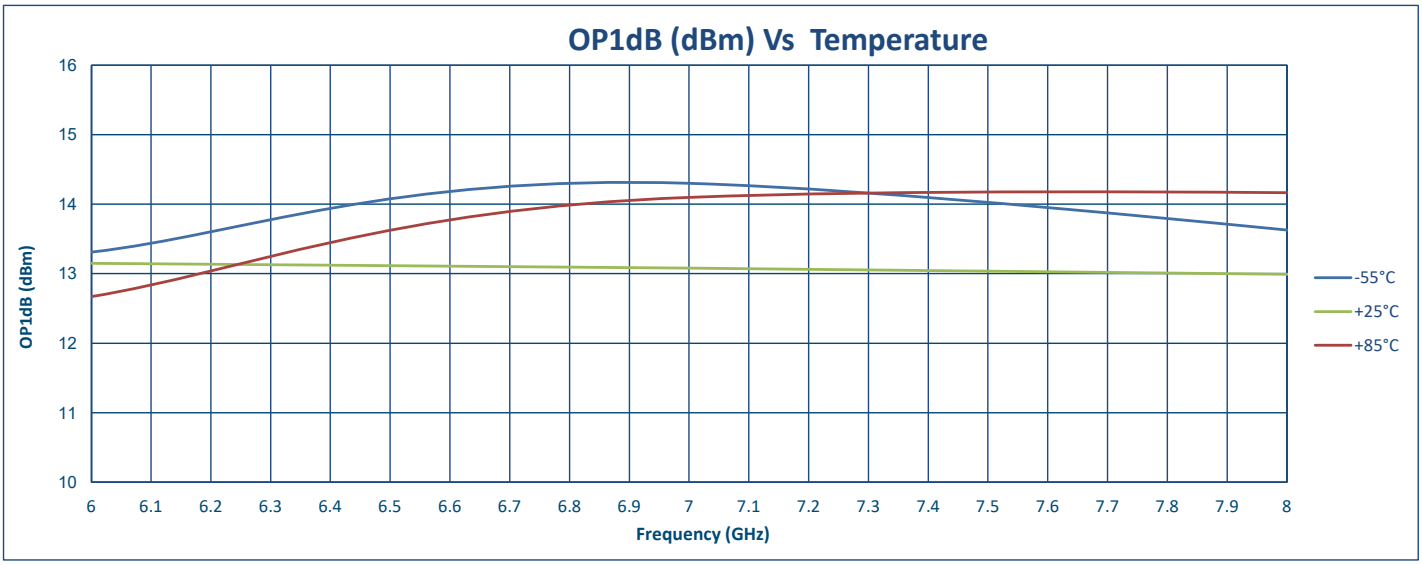

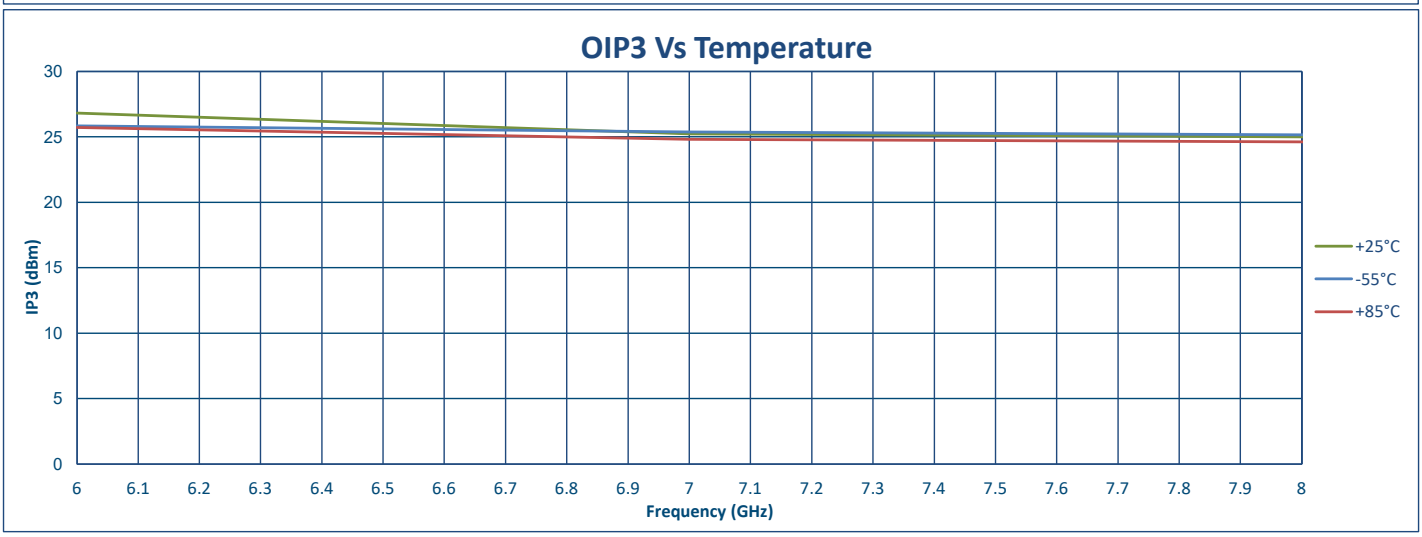

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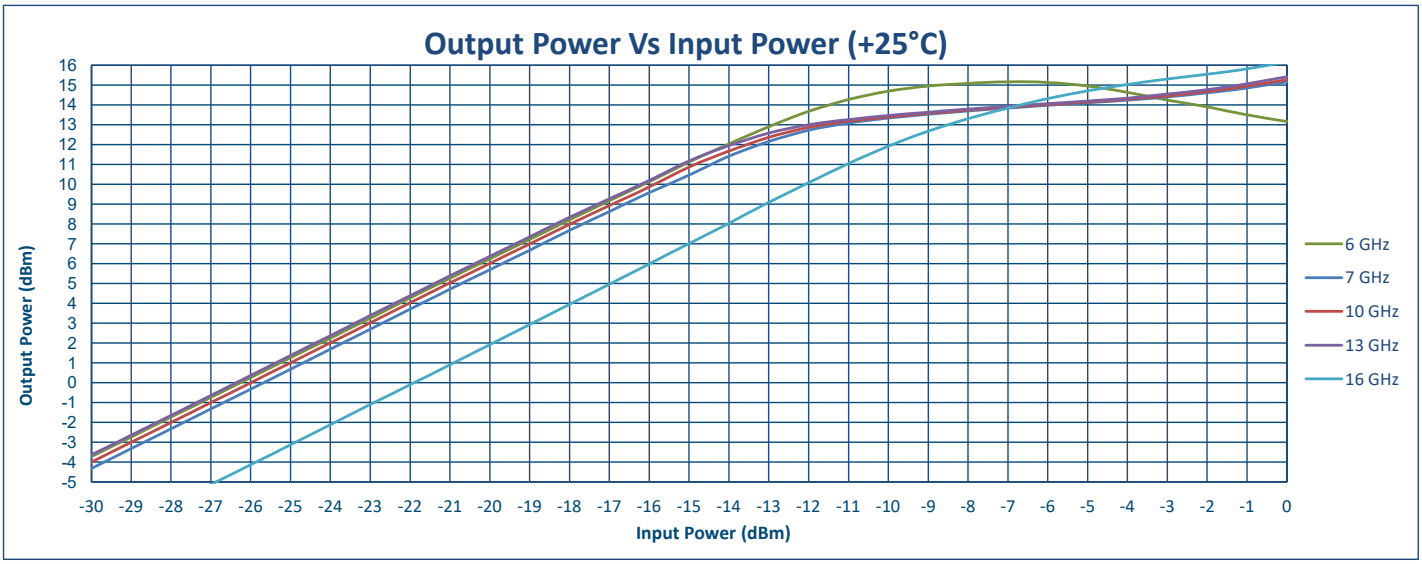

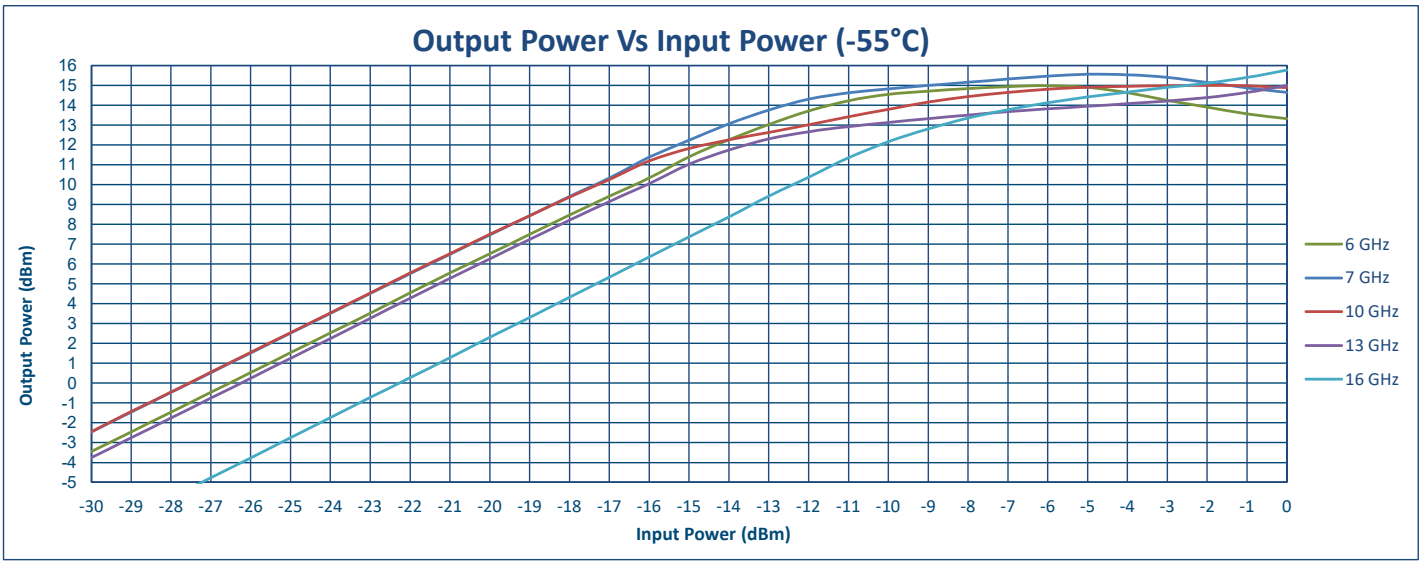

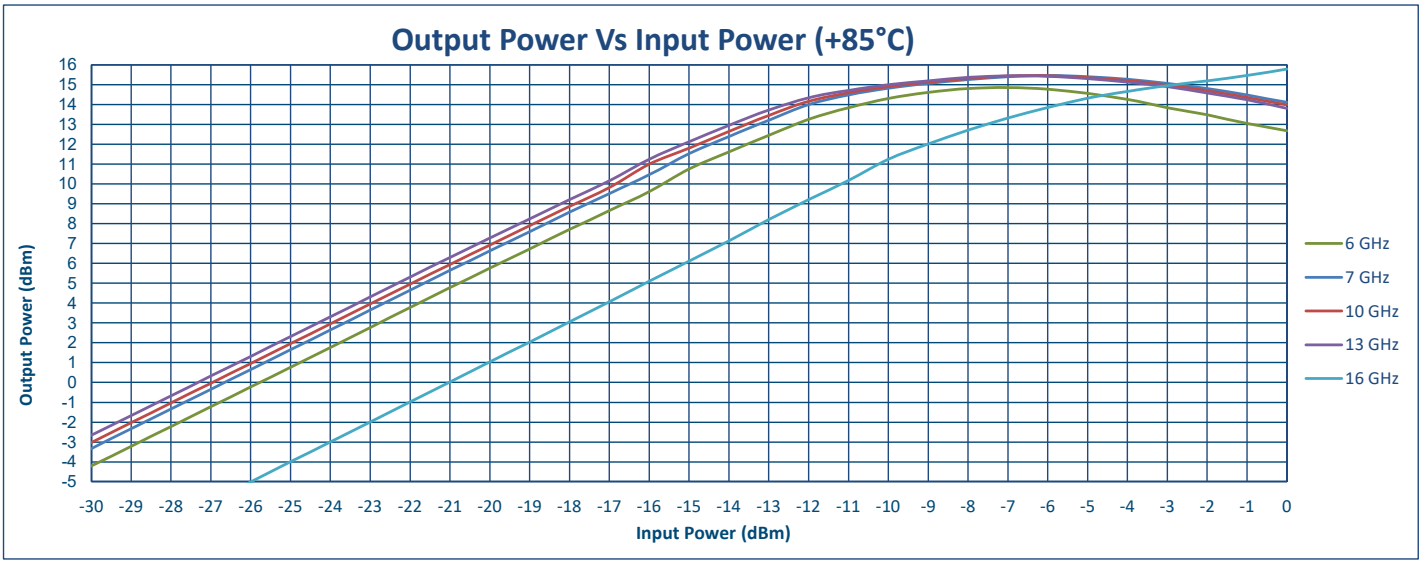

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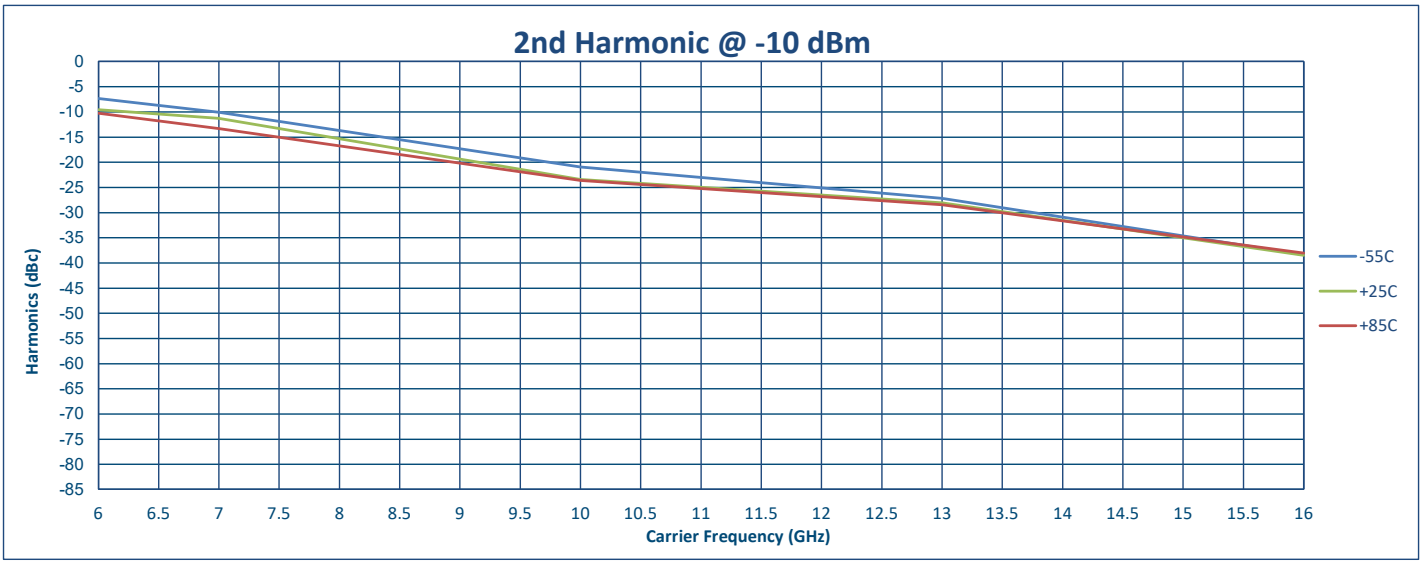

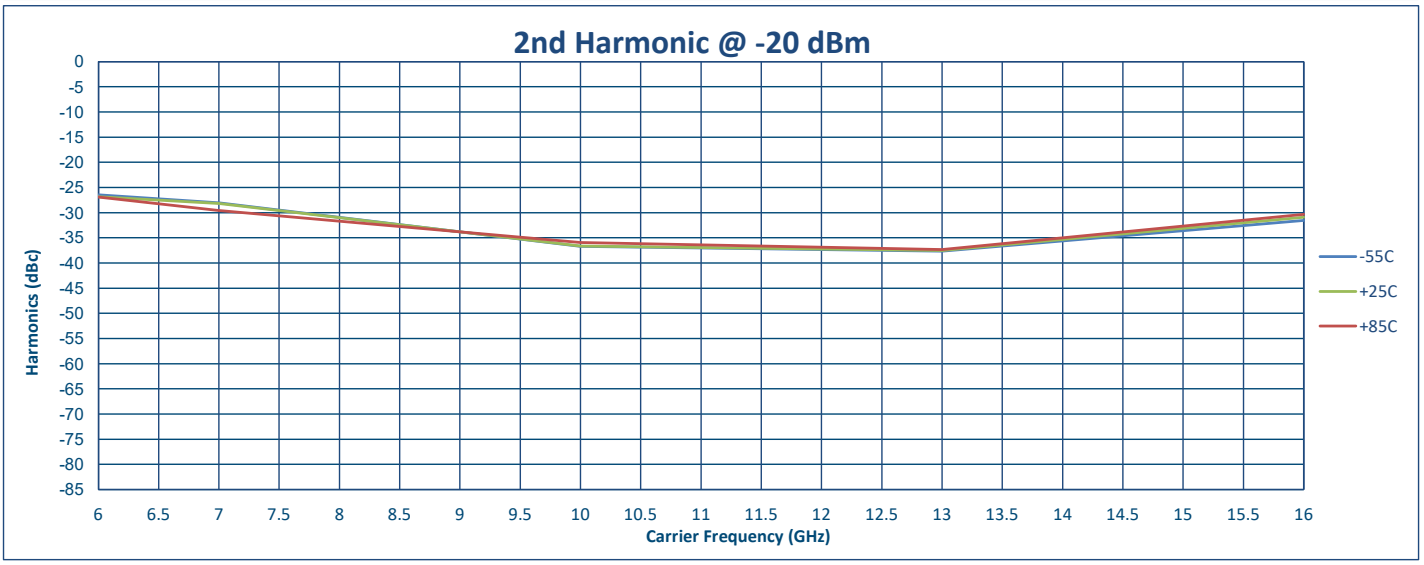

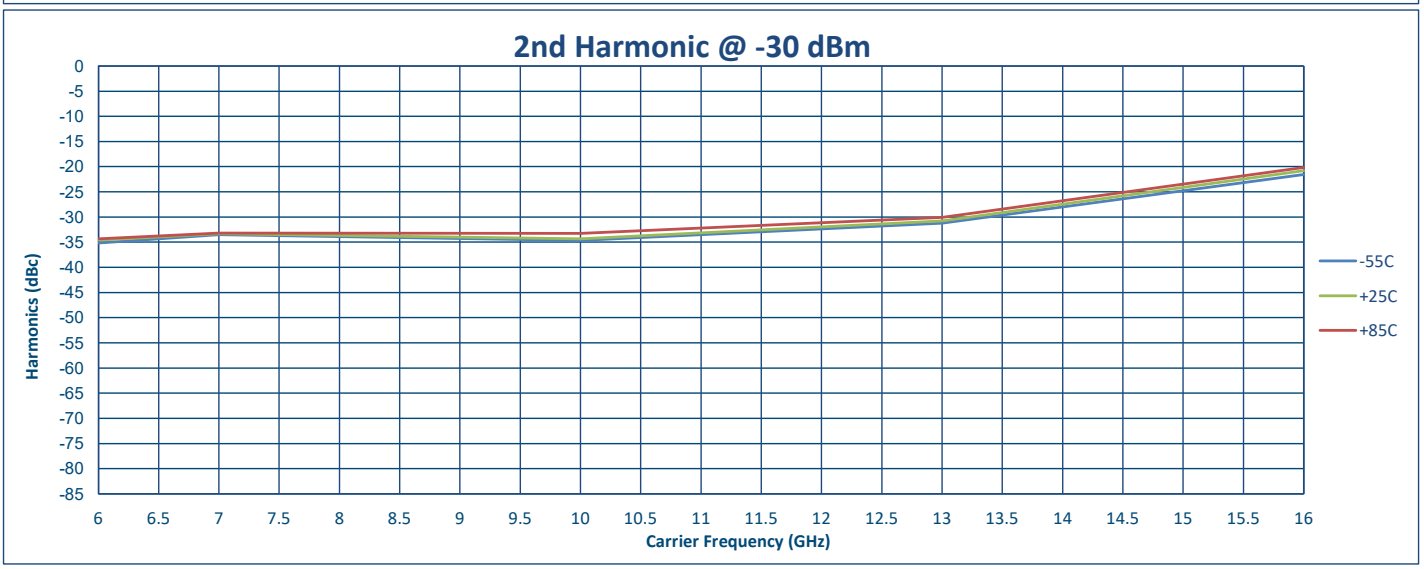

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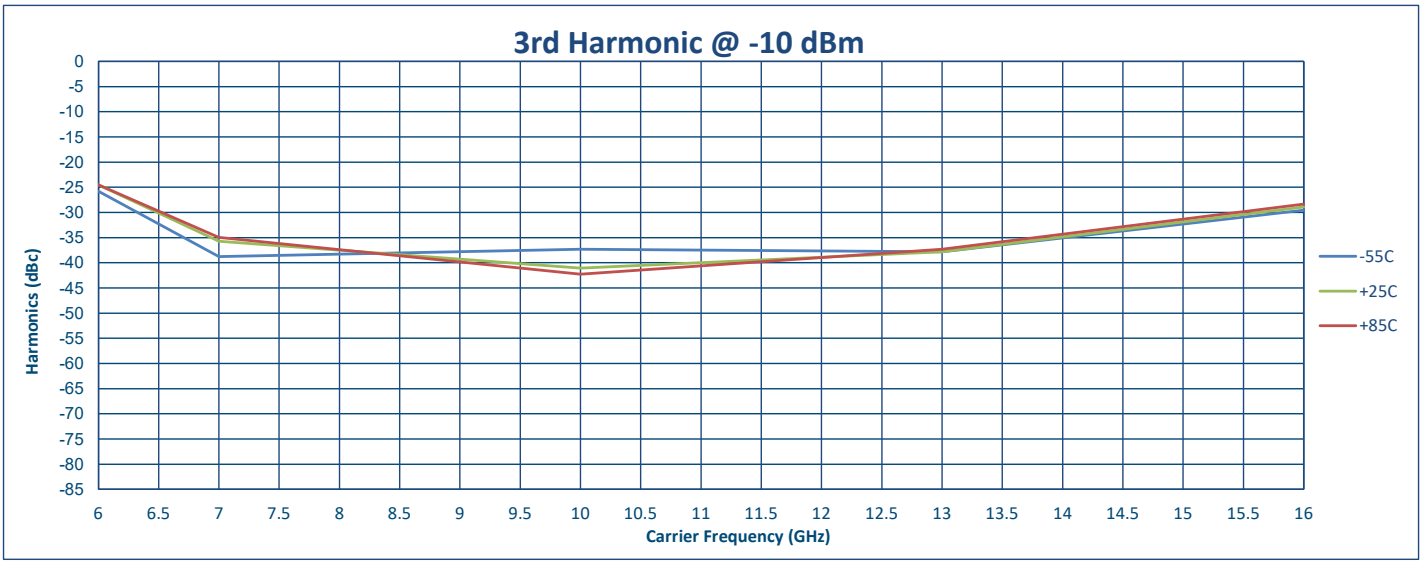

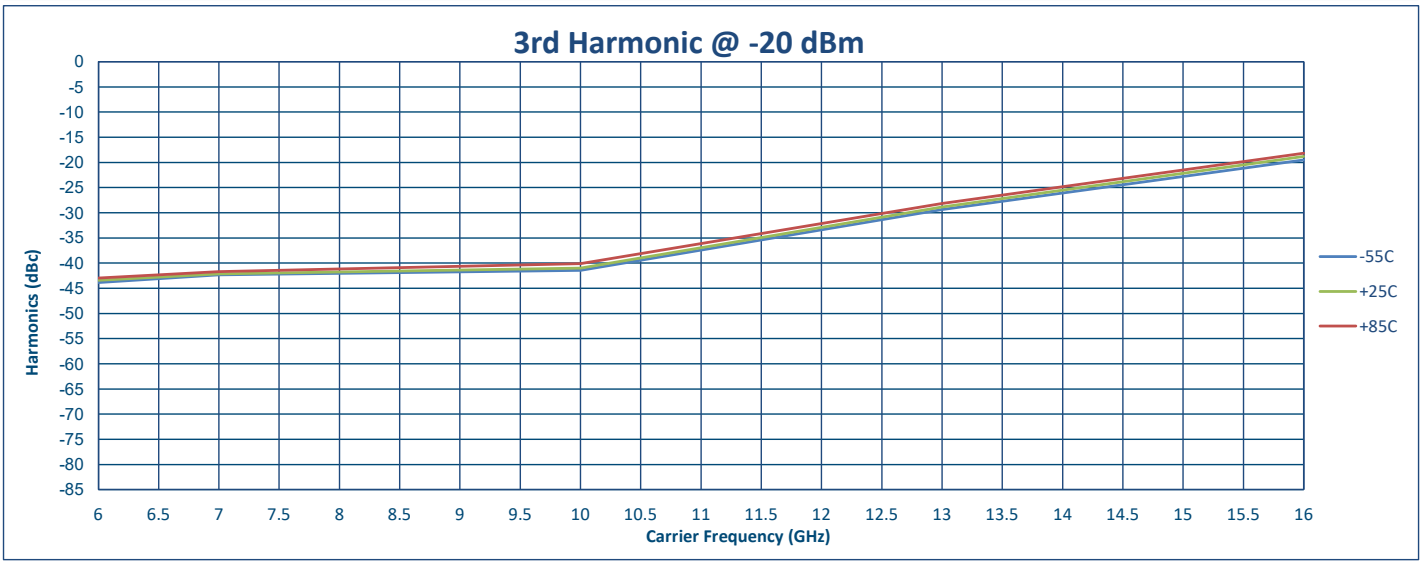

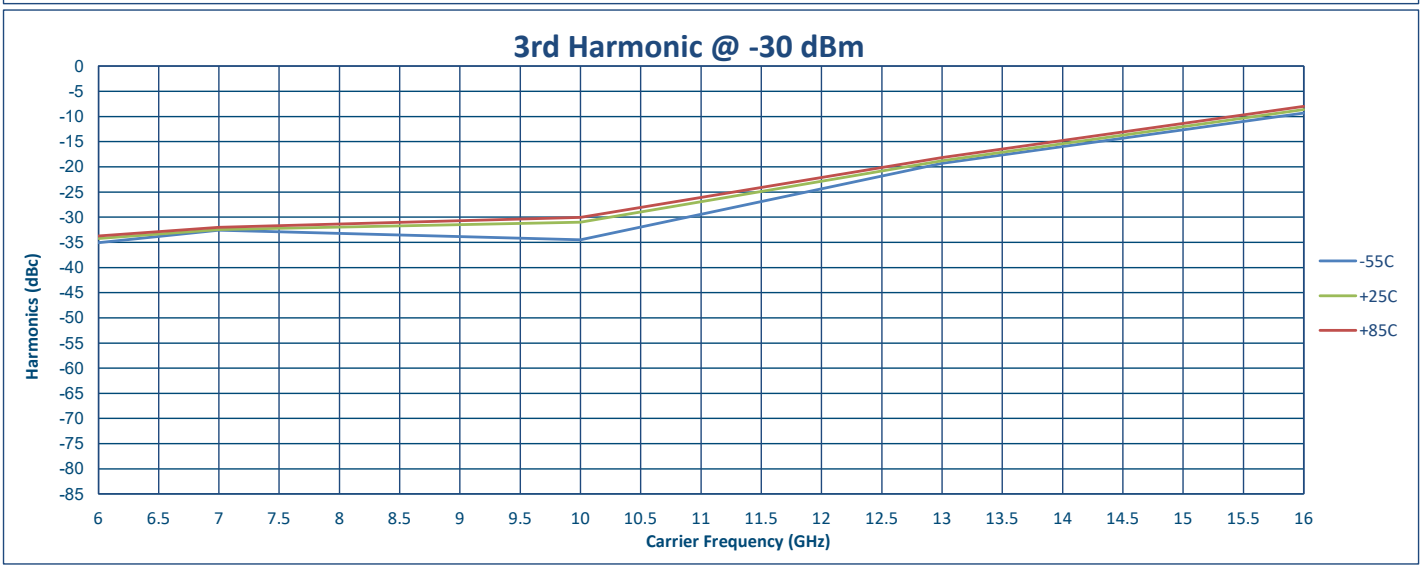

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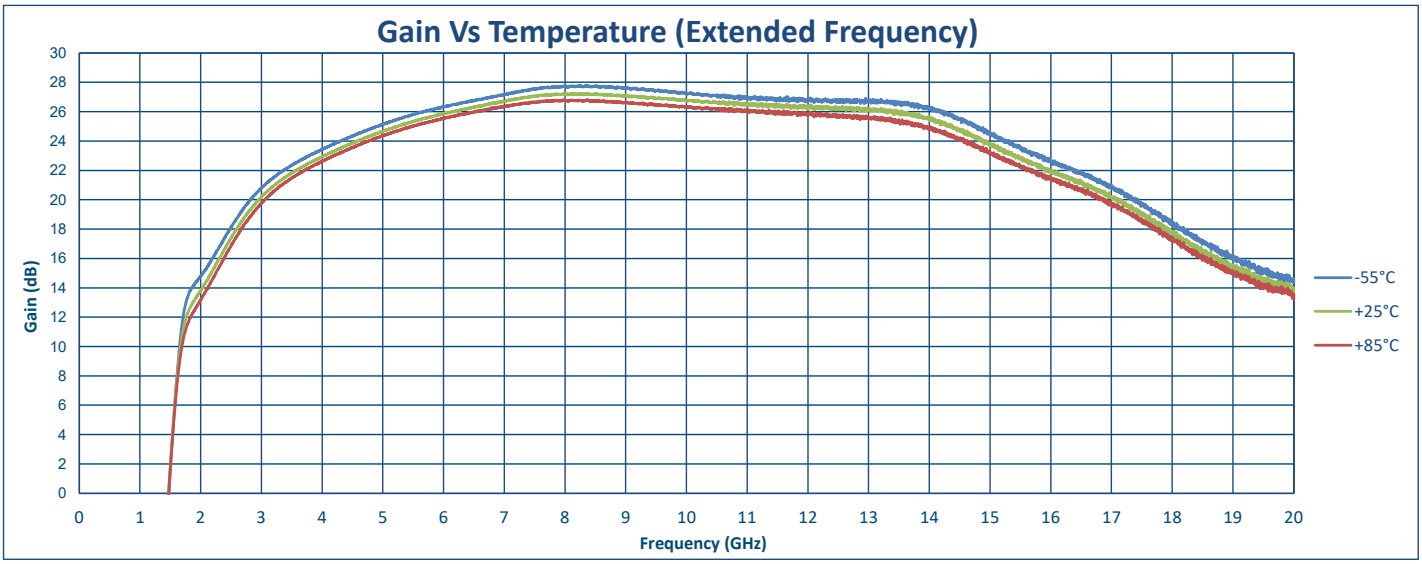

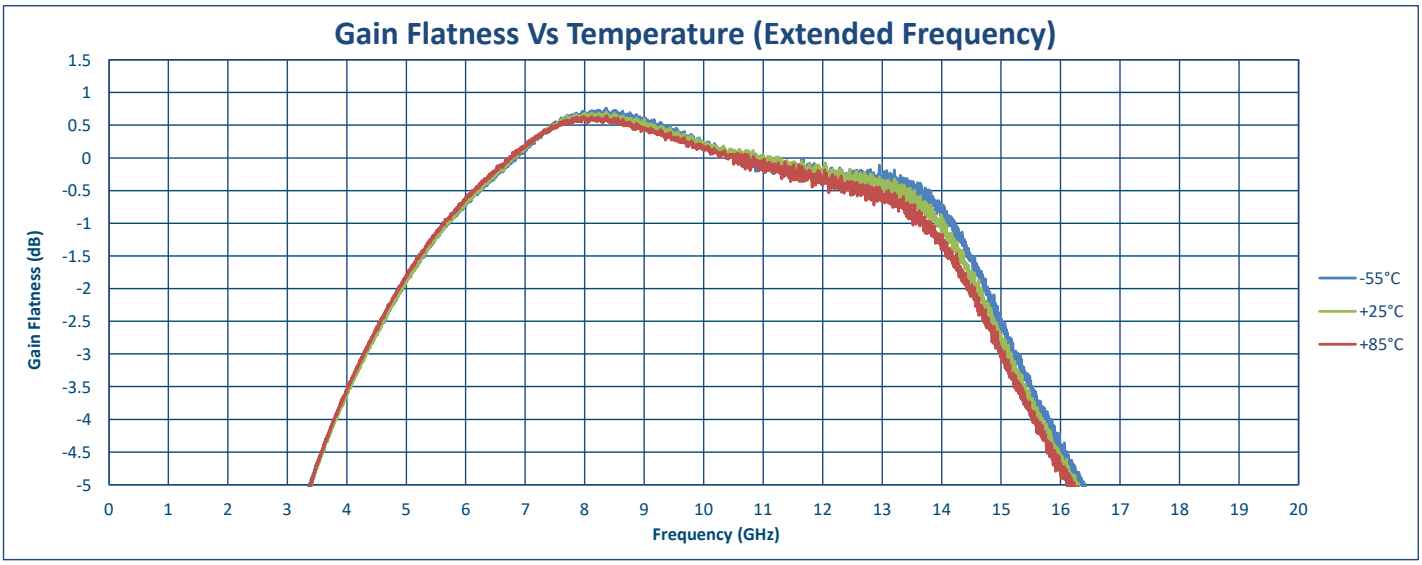

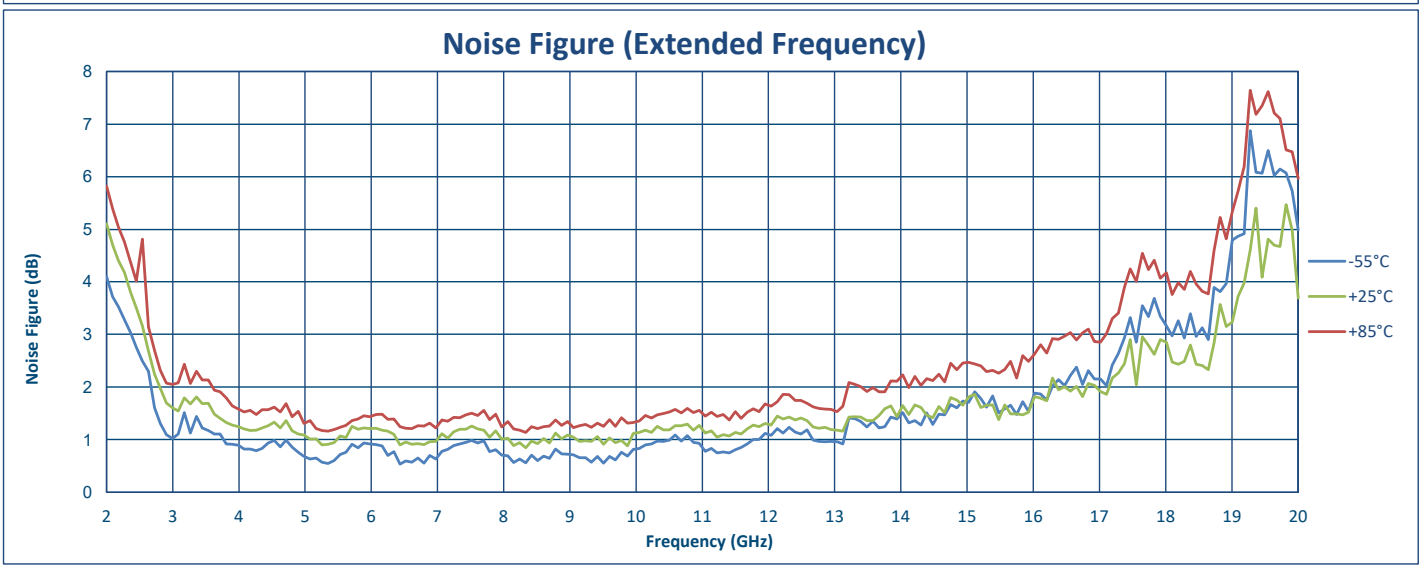

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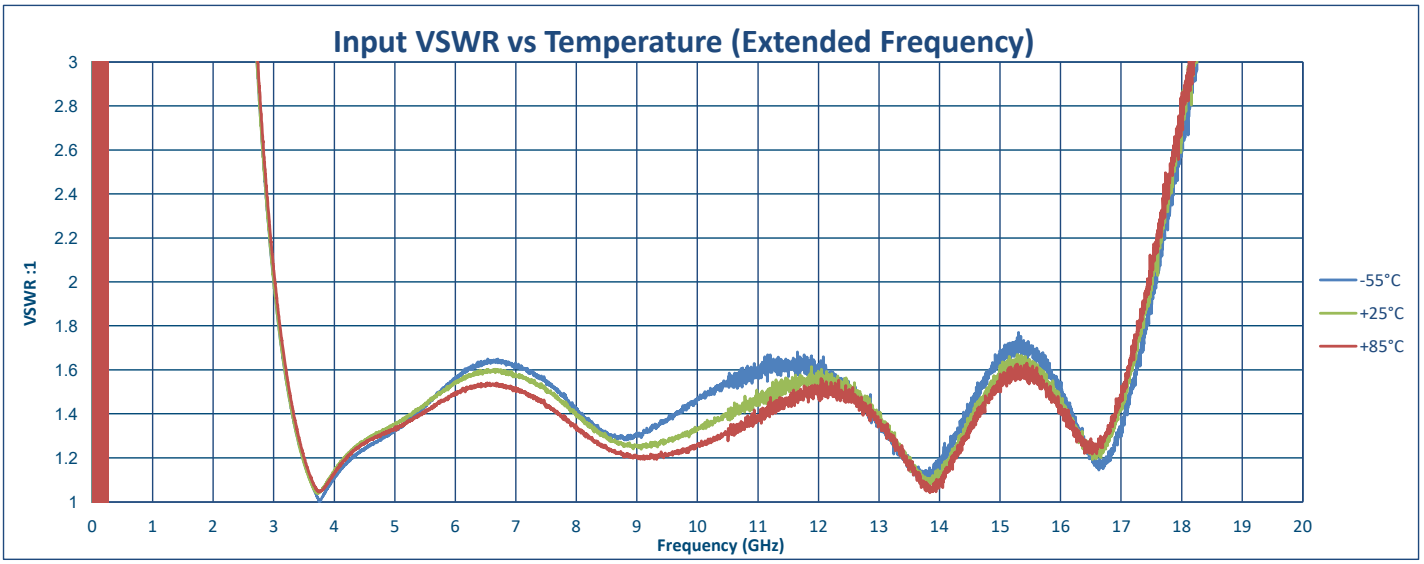

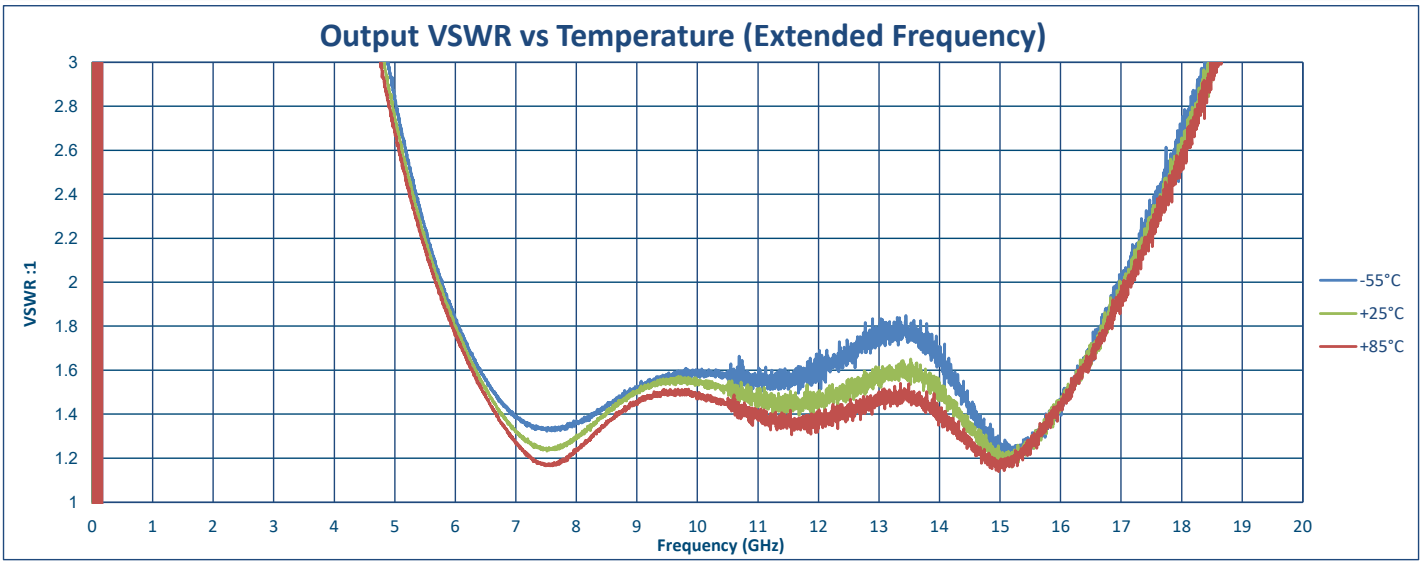

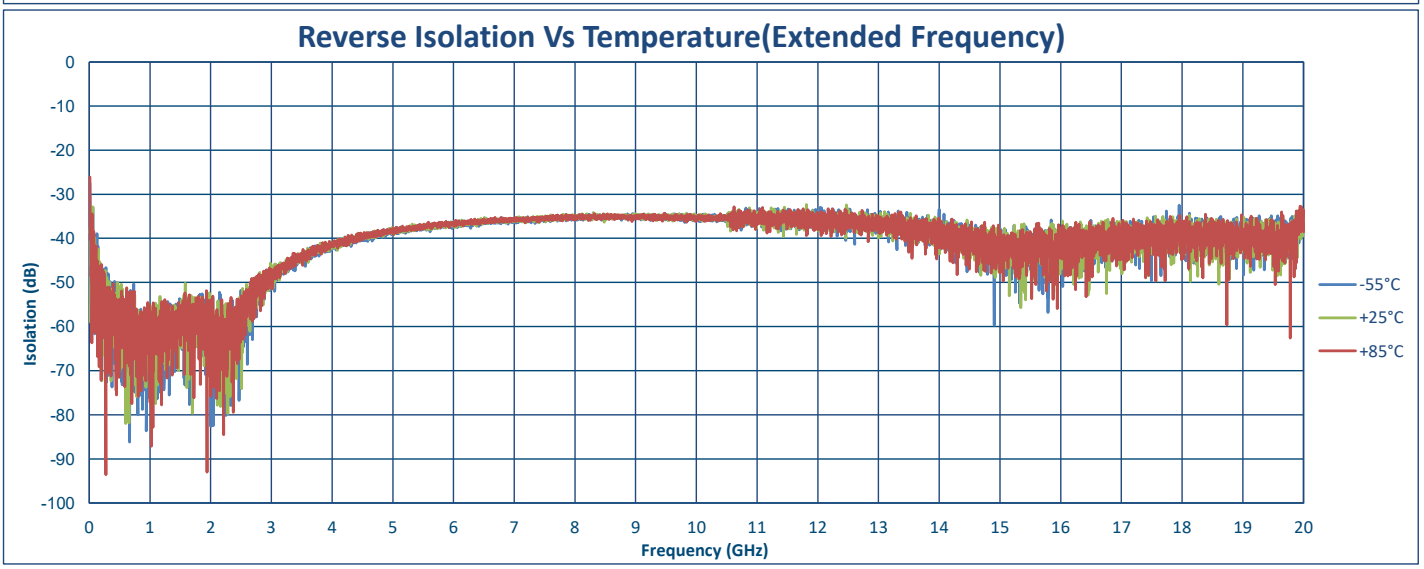

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