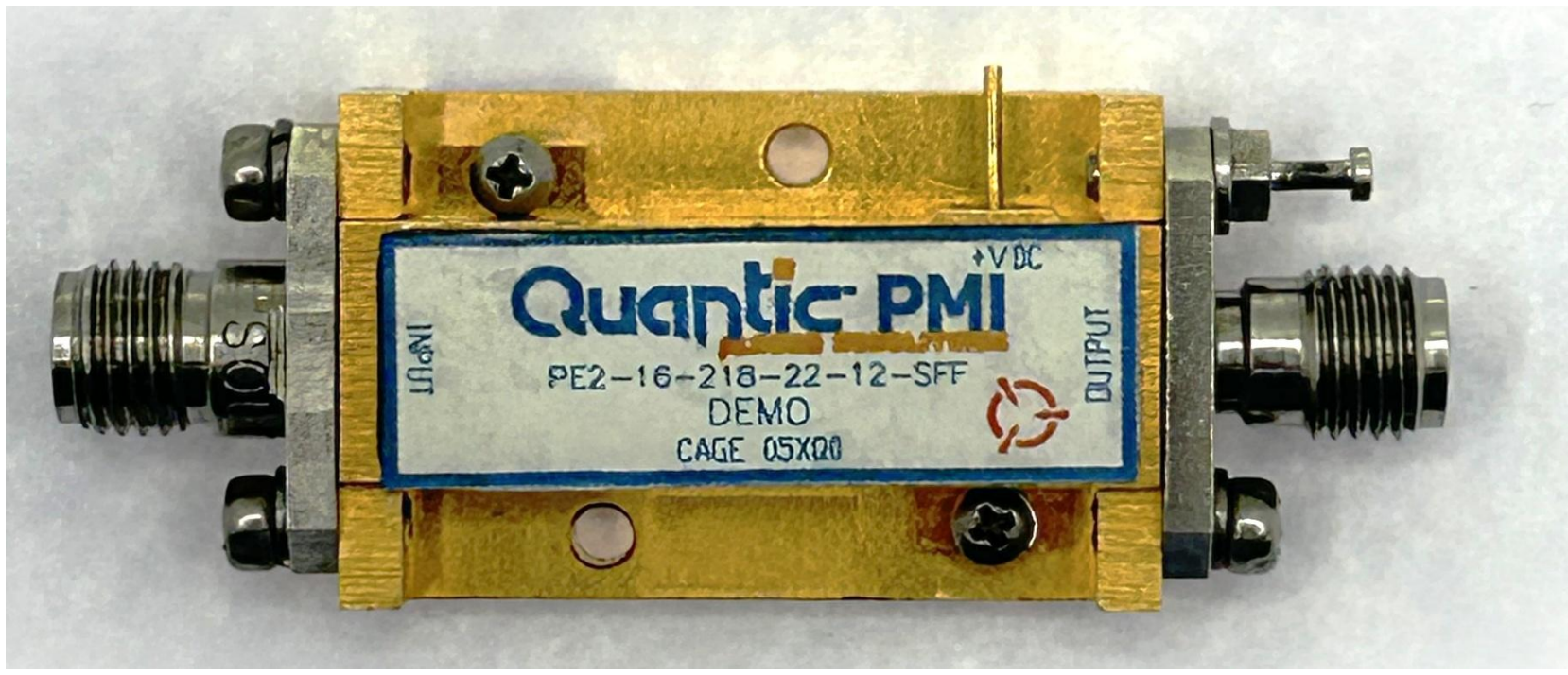
Typical Characteristics
ON
PE2-16-218-22-12-SFF

PMI MODEL NUMBER PE2-16-218-22-12-SFF IS A 2 TO 18 GHz AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.



TESTED AND REPORTED BY
R. SIRK

DATE
July 21, 2025

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Email: sales@pmi-rf.com

Typical Characteristics ON PE2-16-218-22-12-SFF

Outline Drawing

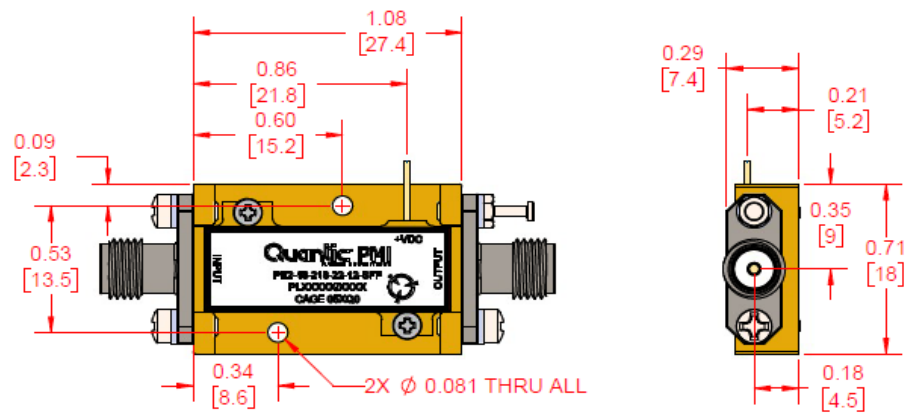
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/2/24	

DESCRIPTION:
PMI MODEL NUMBER PE2-16-218-22-12-SFF IS A 2 TO 18 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.

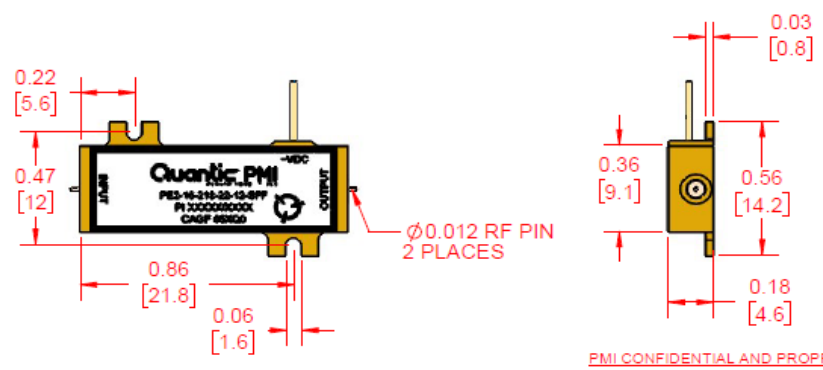
SPECIFICATIONS:

- FREQUENCY RANGE:..... 2.0 TO 18.0 GHz
- GAIN:..... 16 dB TYP
  15 dB MIN
- GAIN FLATNESS:..... ±1.0 dB MAX
- NOISE FIGURE:..... 6 dB MAX
- OP1dB:..... +21 dBm MIN
- RF INPUT POWER:..... +23 dBm MAX
- VSWR (INPUT/OUTPUT):..... 2.0:1 MAX
- DC VOLTAGE SUPPLY:..... +12 TO +15 VDC
- DC CURRENT DRAW:..... Iq = 200 mA MAX
  Ipsat = 300 mA MAX
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER



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

PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS	DATE
DRAWN R. SIRK	5/2/24
REDRAWN	
ISSUED	

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

Quantic PMI PLANAR MONOLITHICS
7309-A GROVE ROAD FREDERICK MARYLAND 21704 USA
TEL: (301) 662-5019 FAX: (301) 662-1731
WEB: WWW.QUANTICPMI.COM EMAIL: SALES@QUANTICPMI.COM
ISO 9001 CERTIFIED

TITLE: OUTLINE
PE2-16-218-22-12-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27048780	A1

SCALE 2:1 SHEET 1 OF 1

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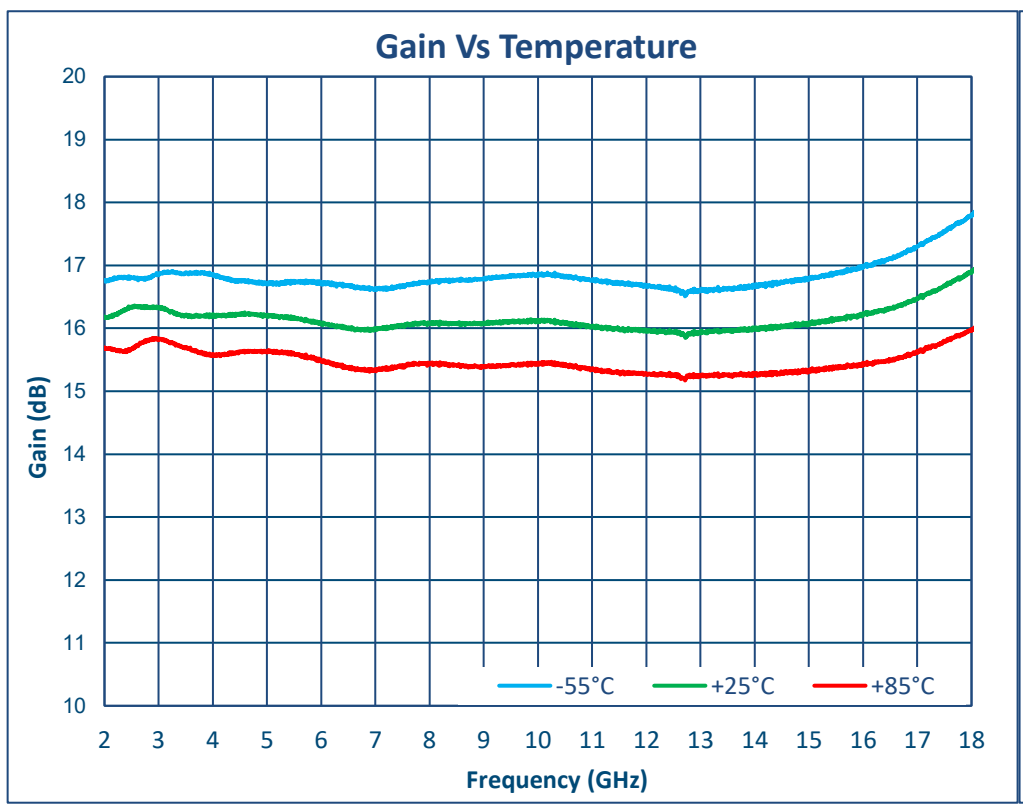
Typical Characteristics ON PE2-16-218-22-12-SFF

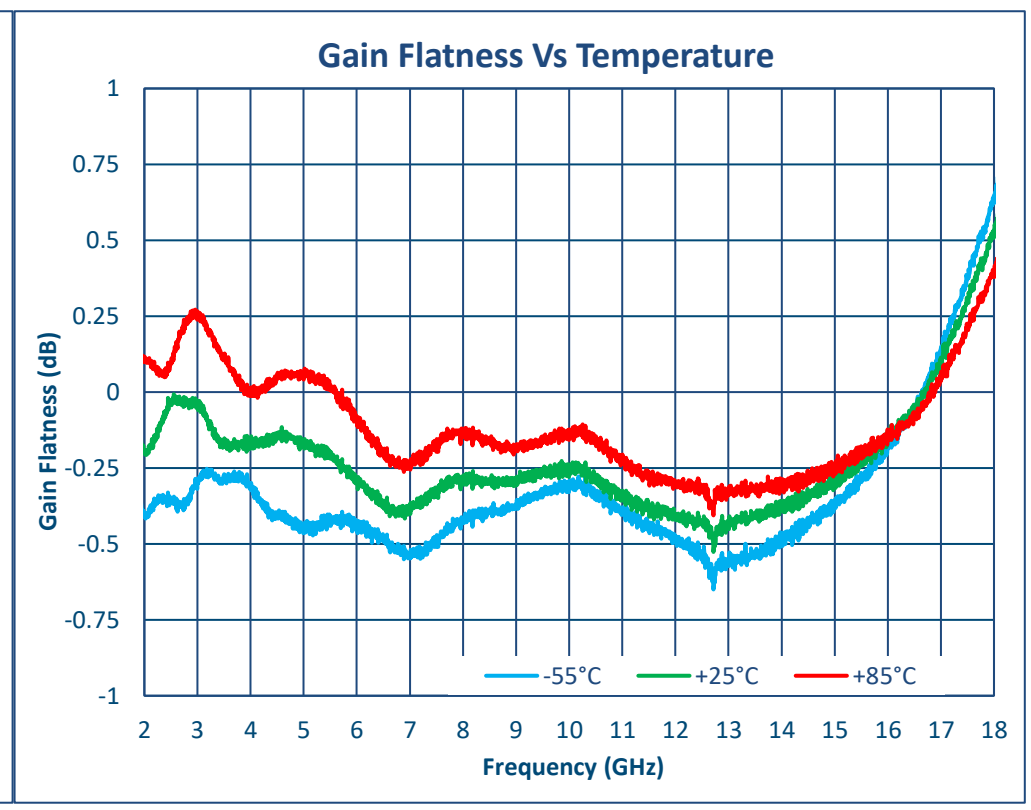
Technical Specifications

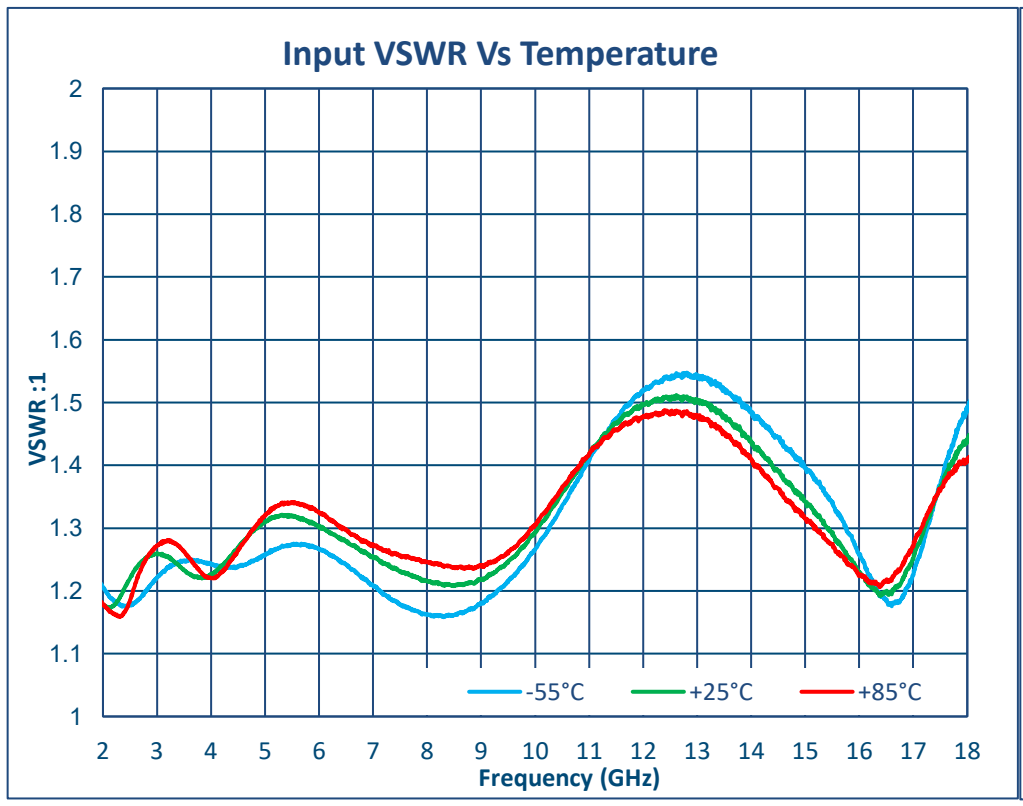
TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results		
			-55°C	+25°C	+85°C
1	Frequency Range:	2 GHz to 18 GHz	**2 GHz to 18 GHz**	**2 GHz to 18 GHz**	**2 GHz to 18 GHz**
2	Gain:	16 dB Typ 15 dB Min	**+16.51 dB Min. +17.81 dB Max. See Graph**	**+15.84 dB Min. +16.9 dB Max. See Graph**	**+15.17 dB Min. +15.98 dB Max. See Graph**
3	Gain Flatness:	±1.0 dB Max	**± 0.65 dB**	**± 0.53 dB**	**± 0.4 dB**
4	Noise Figure:	6 dB Max	**4.83 dB See Graph**	**5.73 dB See Graph**	**5.93 dB See Graph**
5	OP1dB:	21 dBm Min	**+21.28 dBm See Graph**	**+21.33 dBm See Graph**	**+21.22 dBm See Graph**
6	VSWR In/Out:	2 :1 Max	**Input: 1.55 :1 Output: 1.42 :1 See Graph**	**Input: 1.51 :1 Output: 1.48 :1 See Graph**	**Input: 1.49 :1 Output: 1.52 :1 See Graph**
7	DC Supply:	12 to 15 V @ Iq = 200 mA Max Ipsat = 300 mA Max	**+12 to +15 VDC @ Iq = 176 mA Ipsat = 219 mA**	**+12 to +15 VDC @ Iq = 181 mA Ipsat = 219 mA**	**+12 to +15 VDC @ Iq = 186 mA Ipsat = 213 mA**

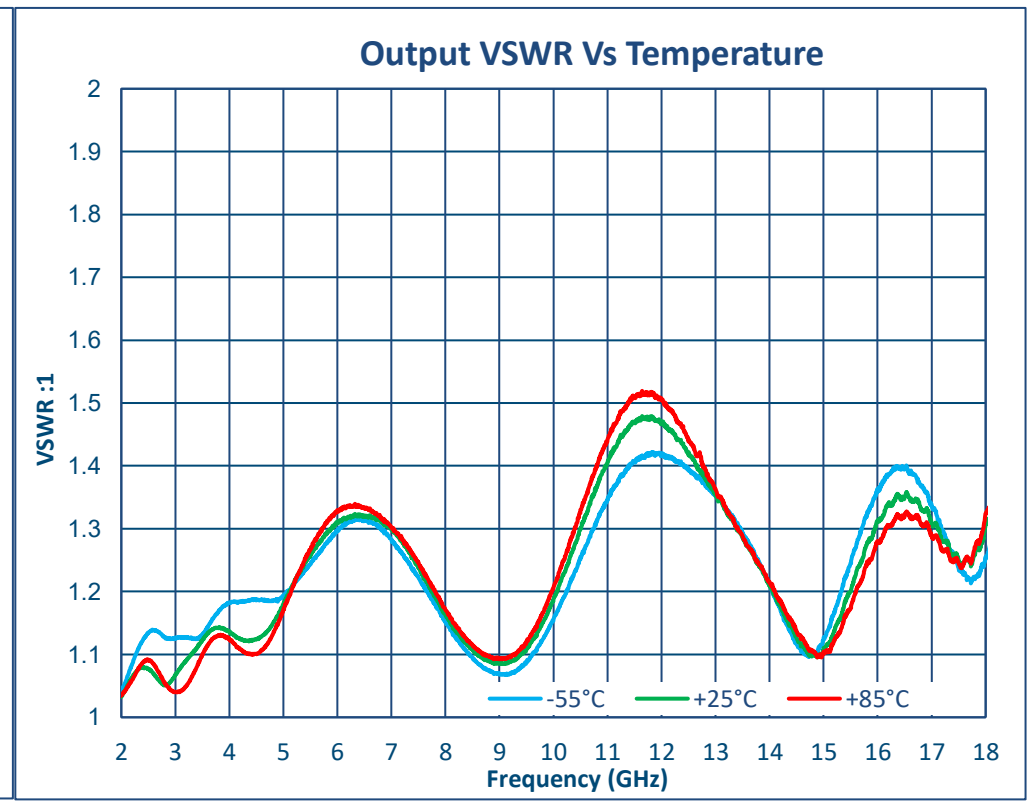
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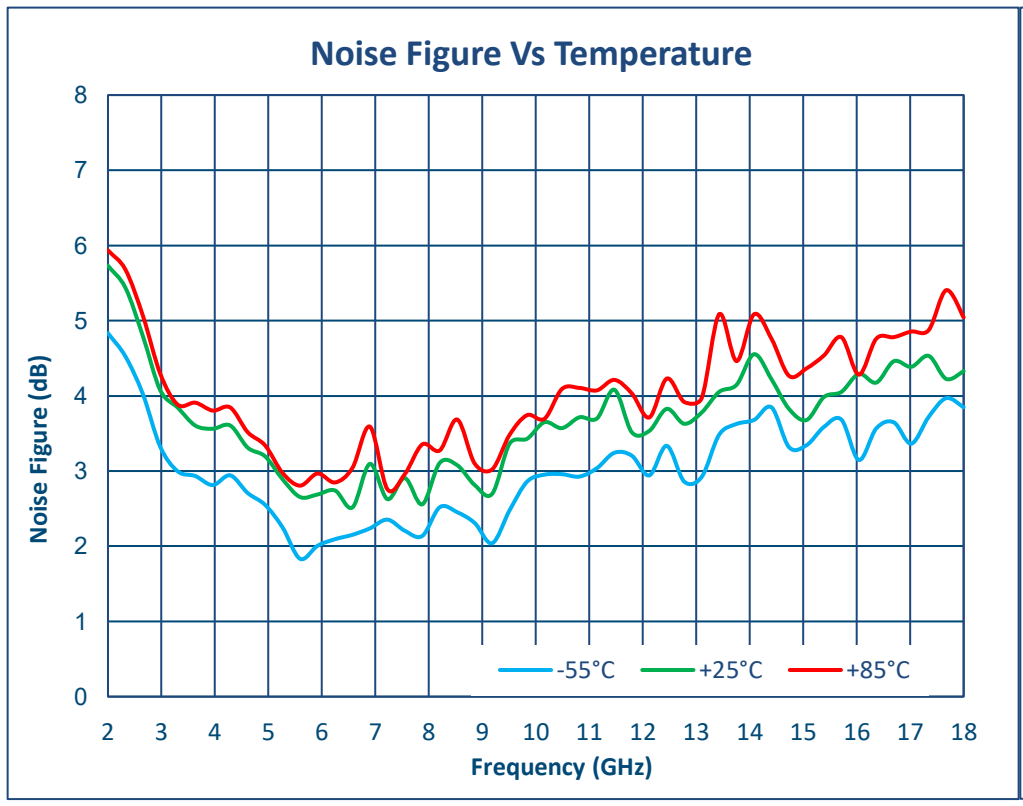
Typical Characteristics ON PE2-16-218-22-12-SFF

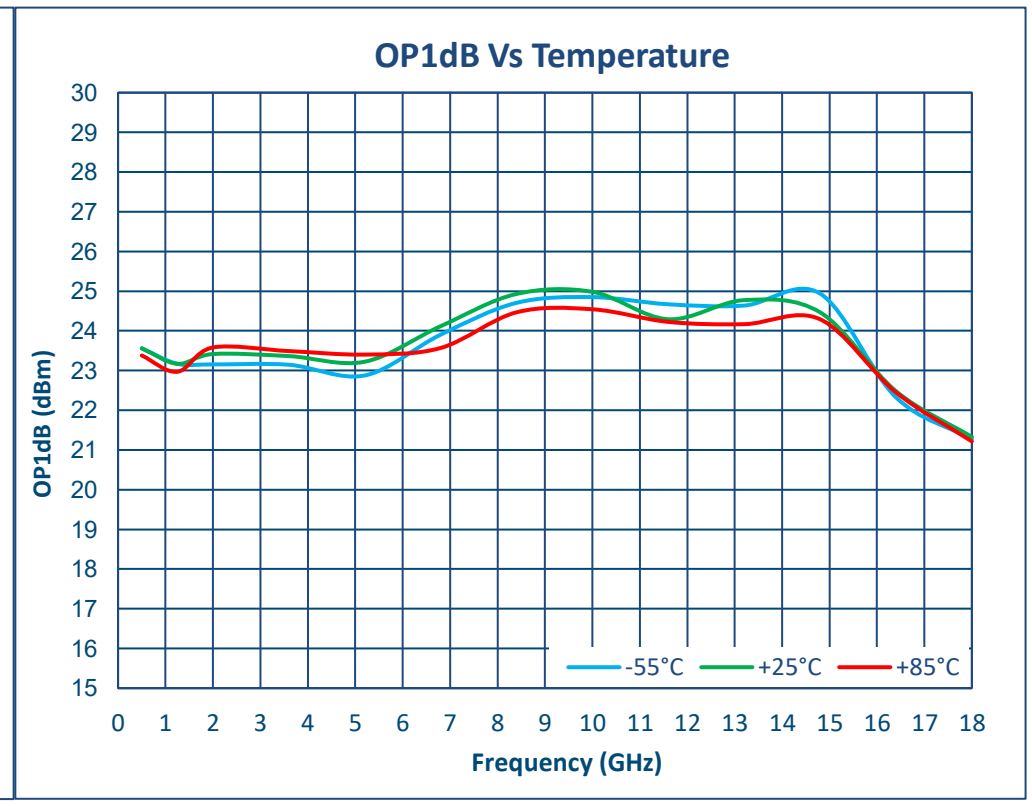






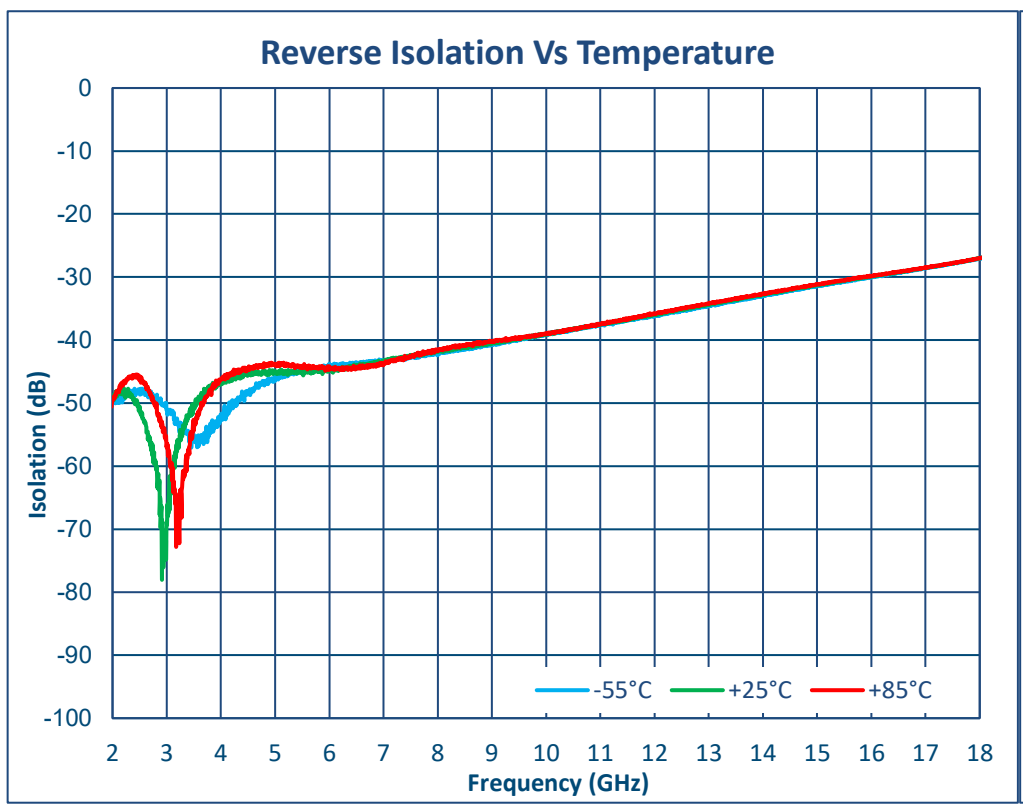


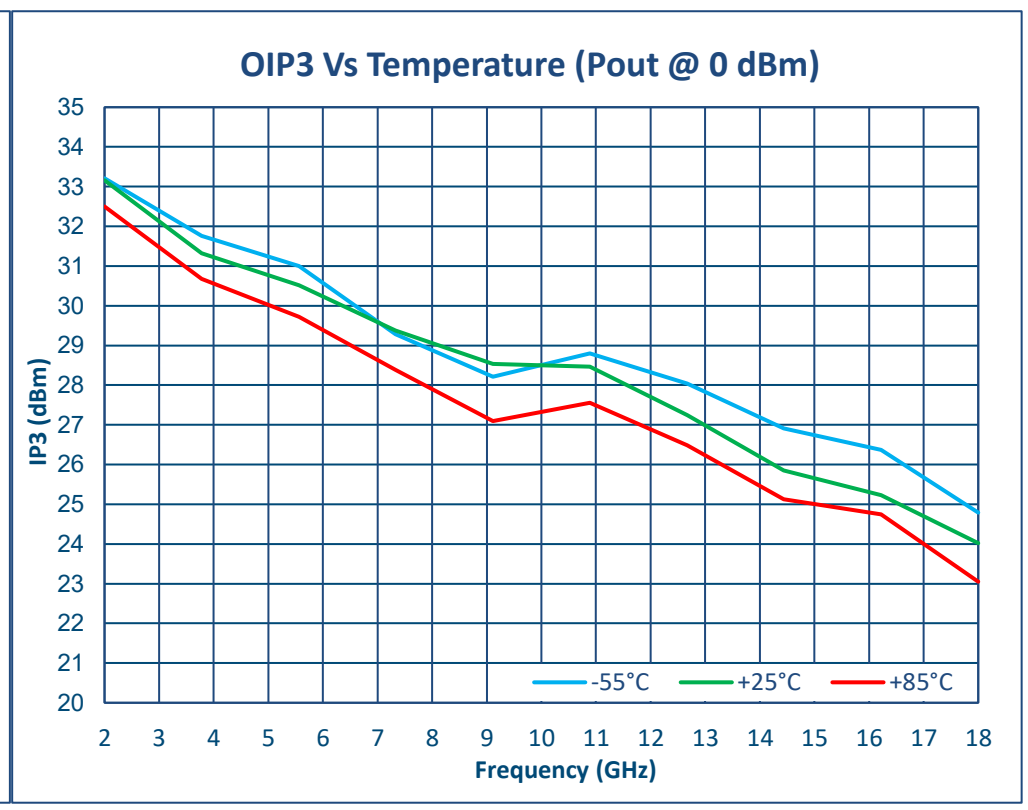


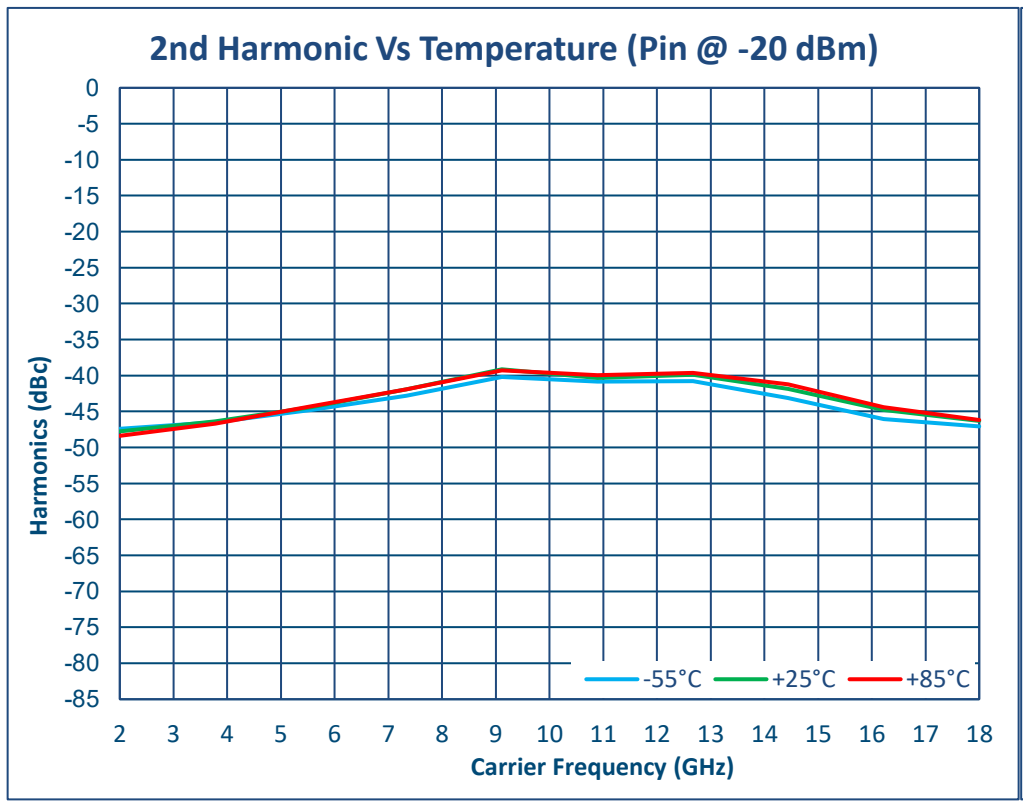


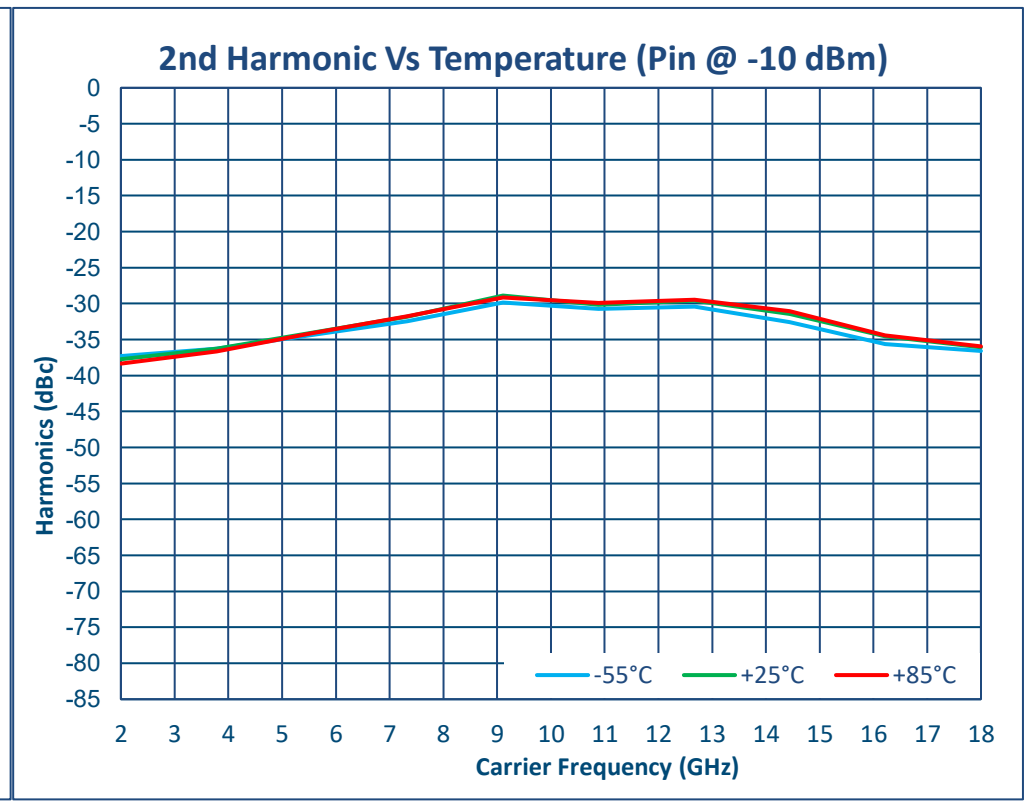
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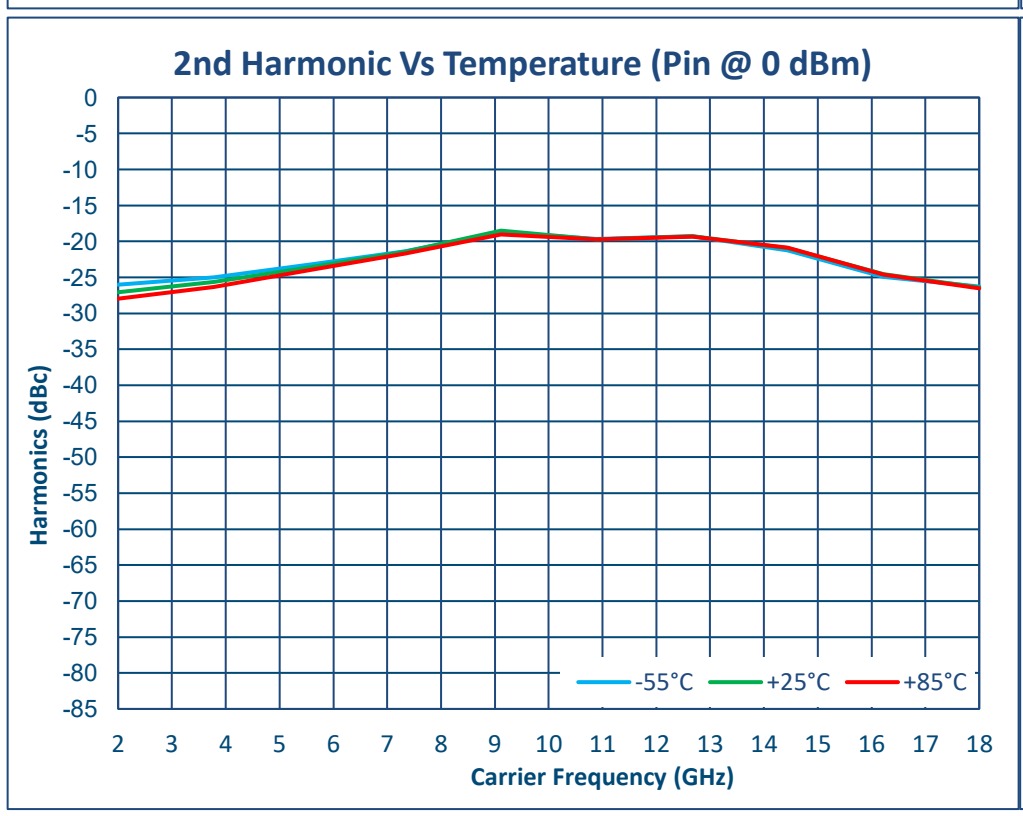
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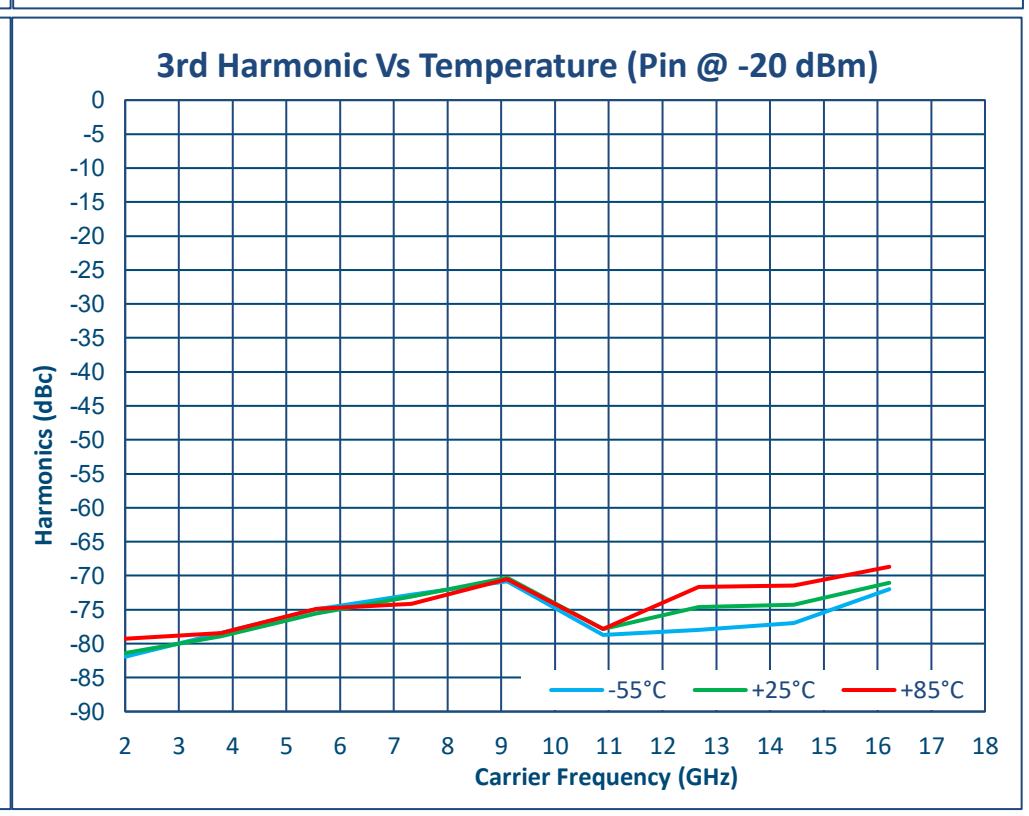






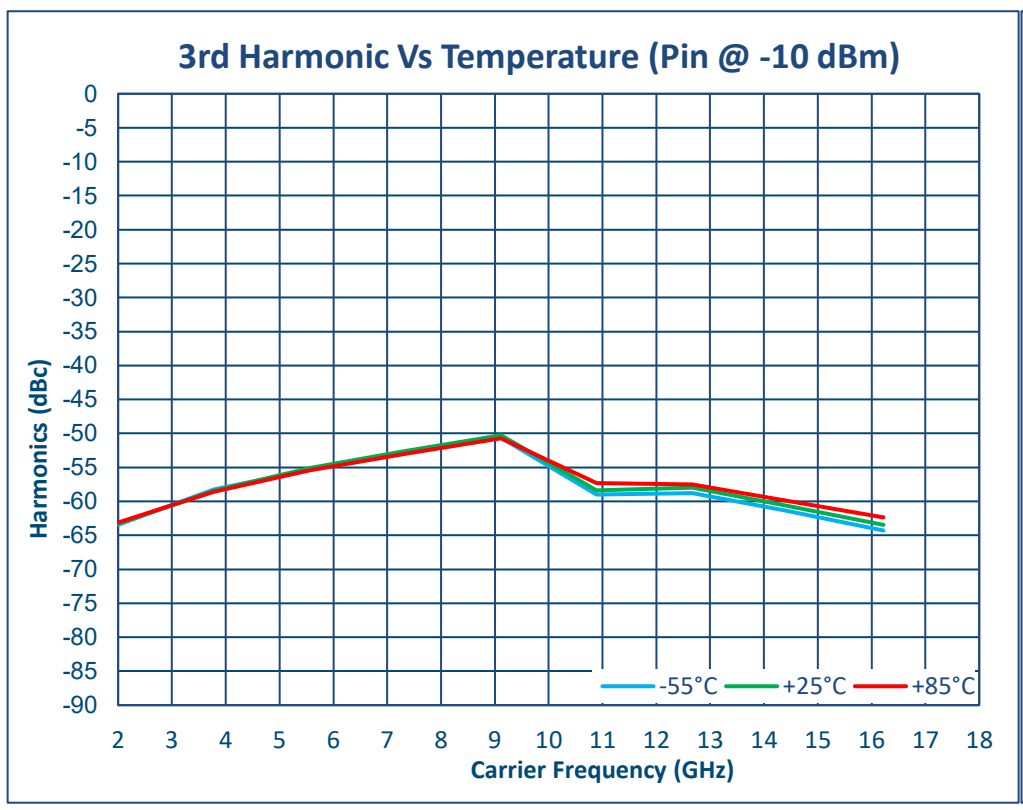


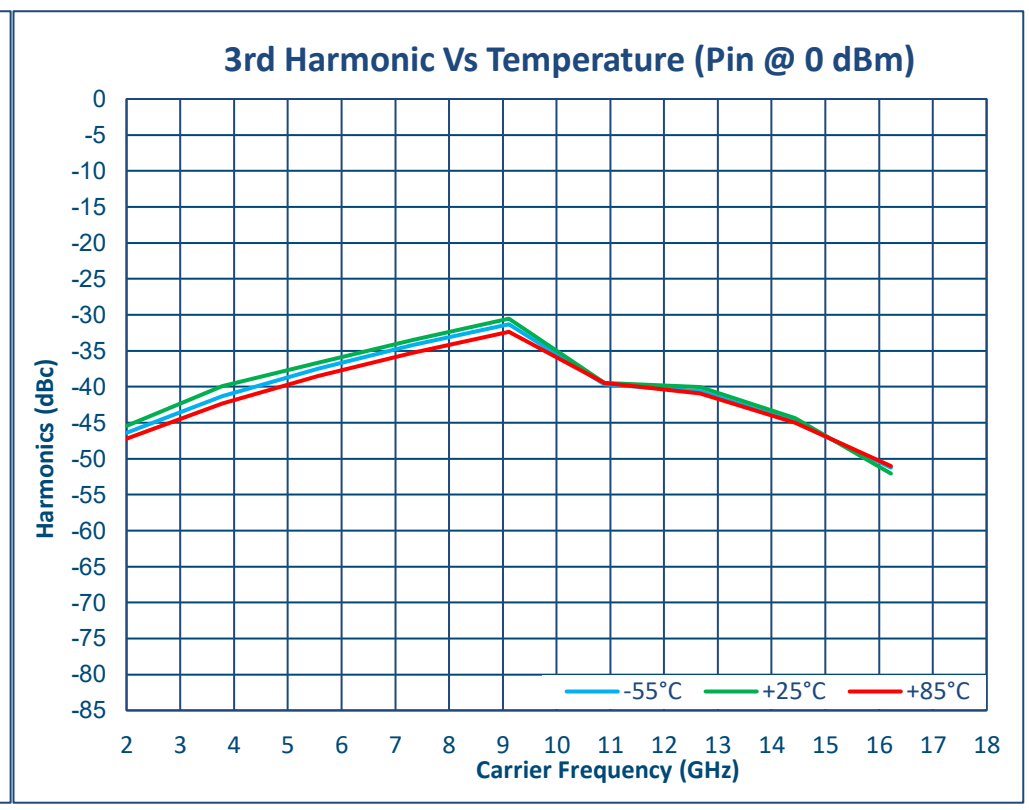


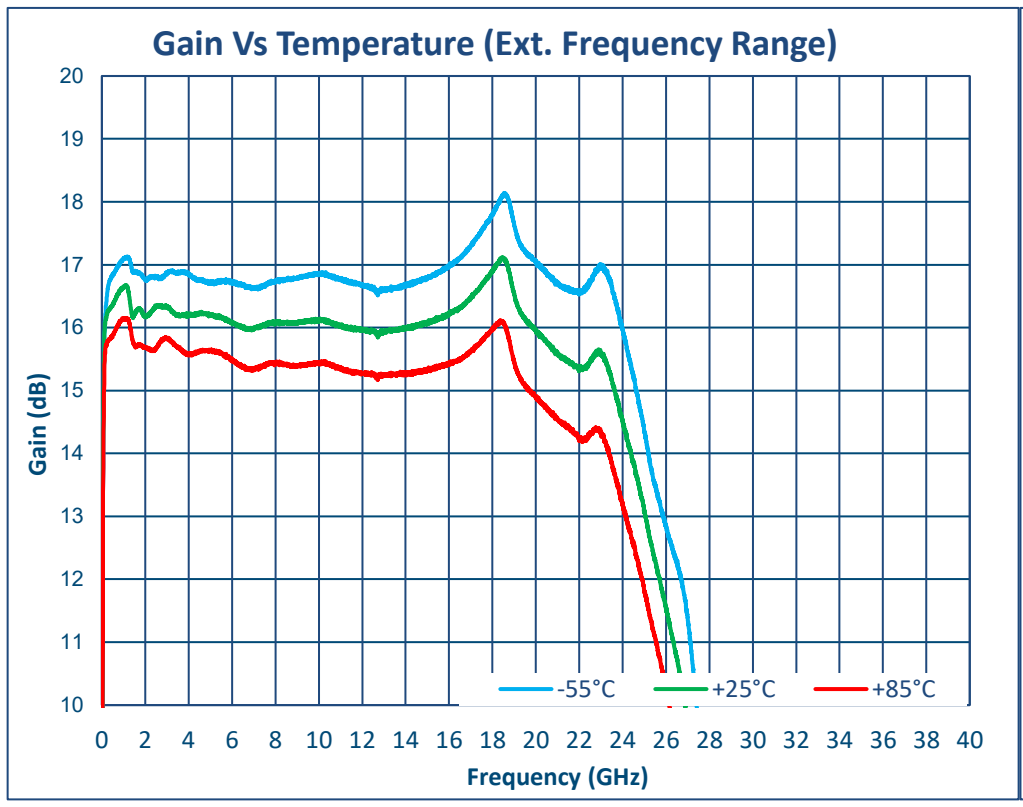


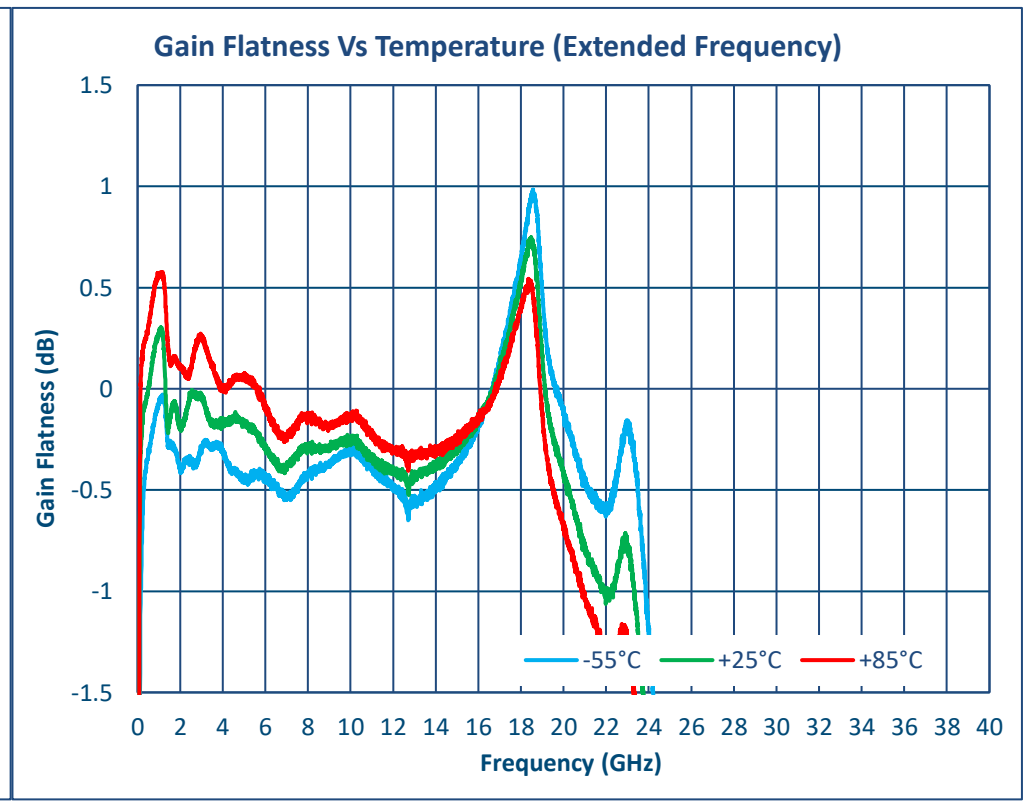
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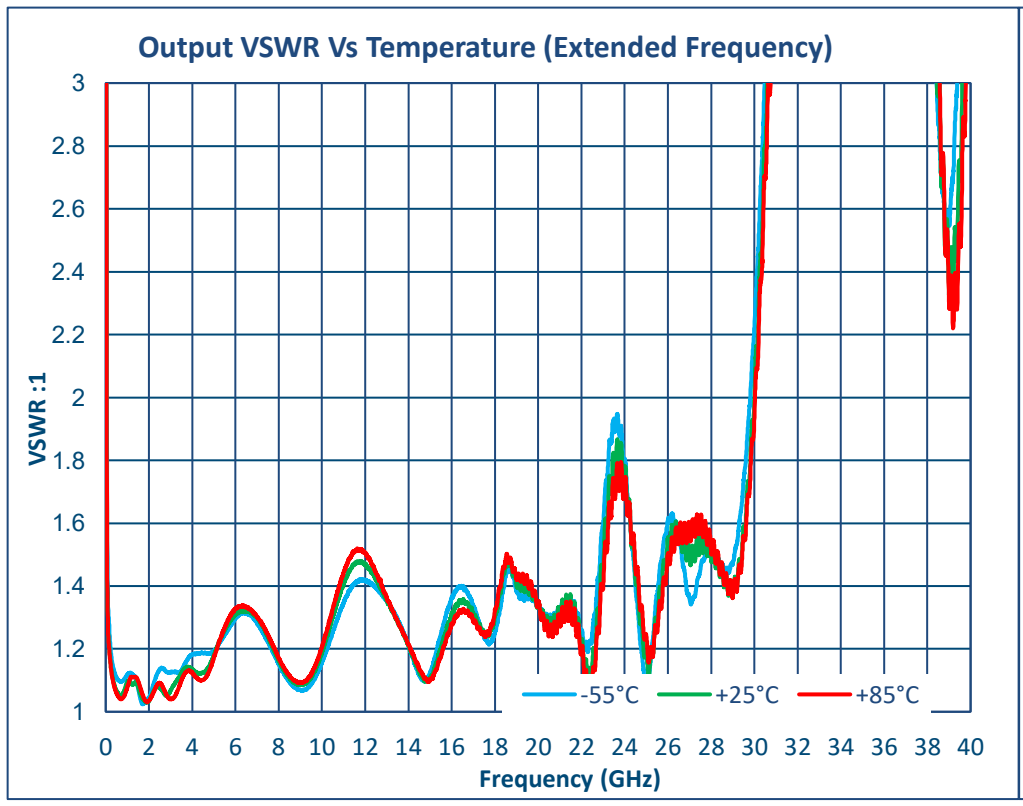
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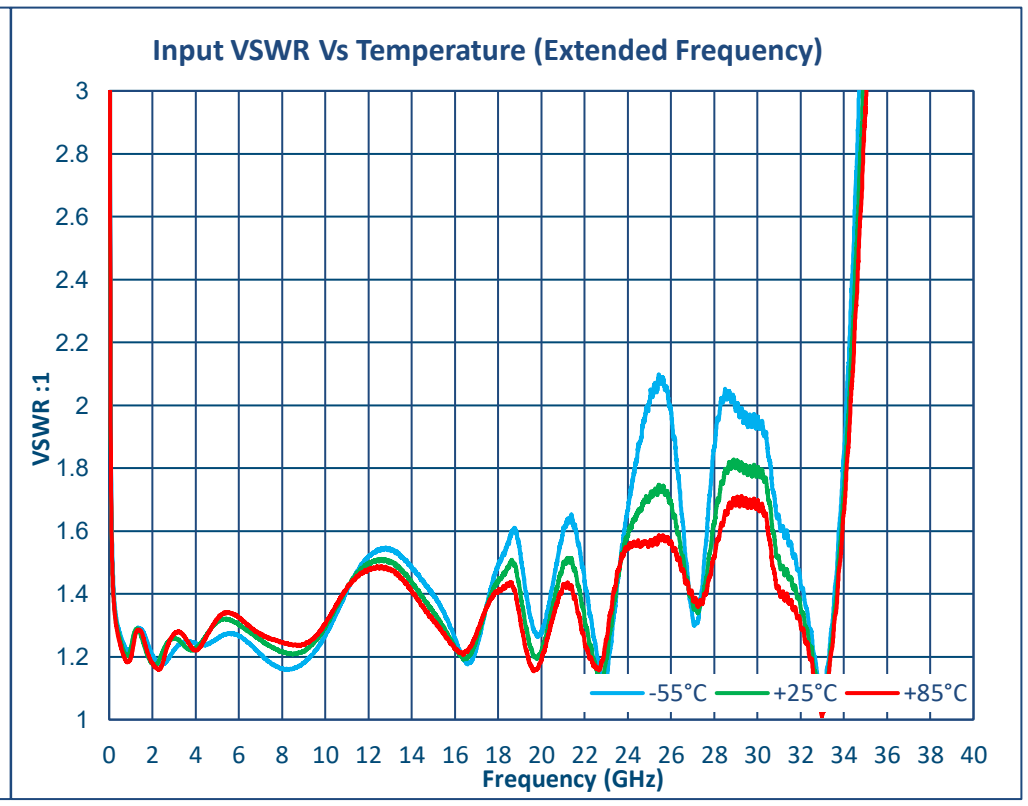






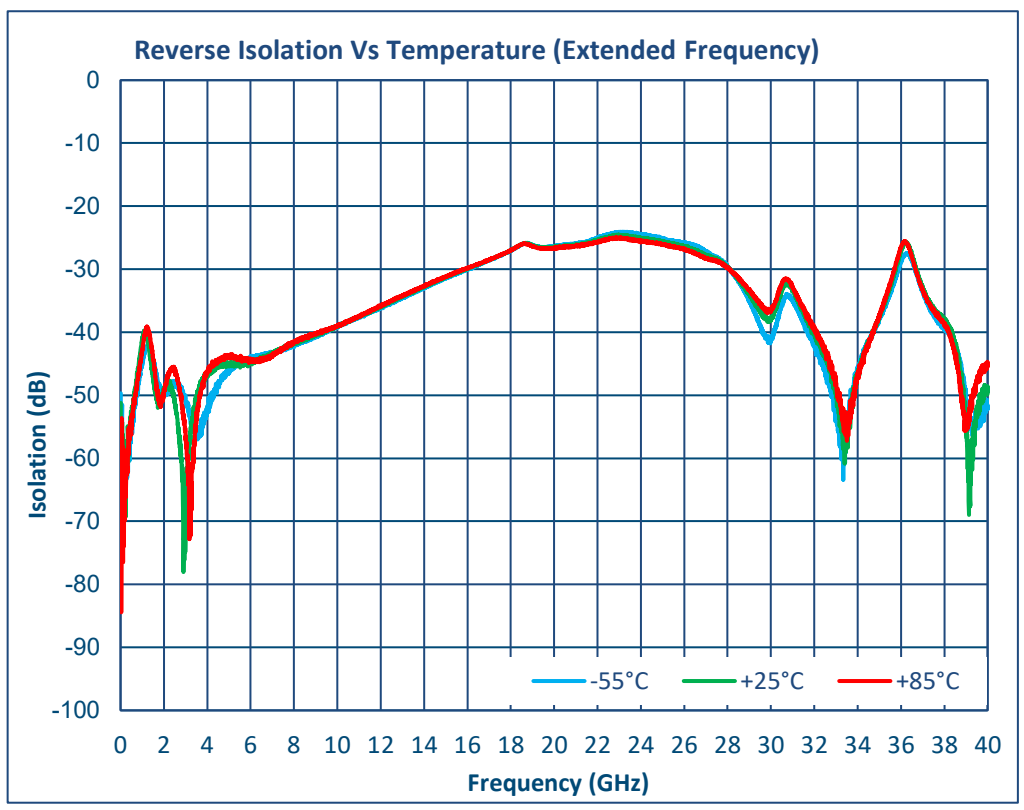






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