TYPICAL CHARACTERISTICS ON PE2-17-218-21-12-SFF

PMI MODEL NUMBER PE2-17-218-21-12-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
V. Vasquez

DATE
February 10, 2026

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Typical Characteristics ON PE2-17-218-21-12-SFF

Outline Drawing

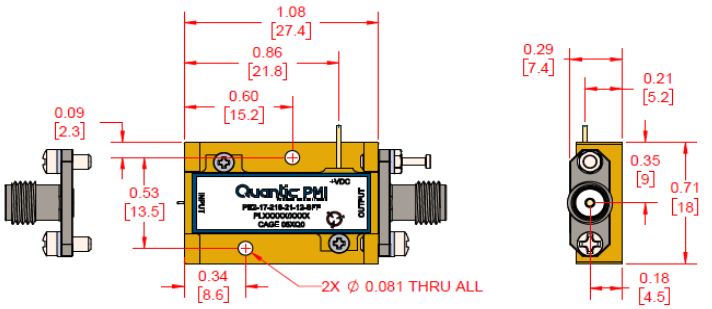
DESCRIPTION:
PMI MODEL NUMBER PE2-17-218-20-12-SFF IS A 2 TO 18 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS A SMA CONNECTORIZED OR SURFACE MOUNT COMPONENT.

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	5/16/2020	

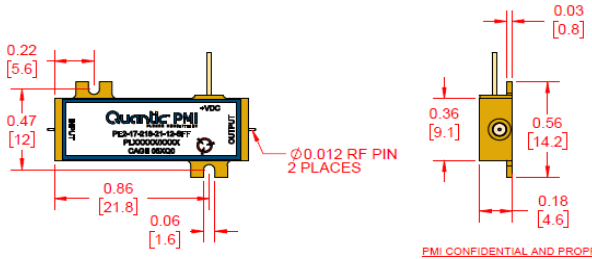
SPECIFICATIONS:

- FREQUENCY RANGE: 2.0 TO 18.0 GHz
- GAIN: 16 dB TYP, 14 dB MIN
- GAIN FLATNESS: ±1.00 dB MAX
- NOISE FIGURE: 6 dB MAX
- OP1dB: +16 dBm MIN
- Psat: +22 dBm MIN
- RF INPUT POWER: +24 dBm MAX
- INPUT VSWR: 2.0:1 MAX
- OUTPUT VSWR: 2.0:1 MAX
- DC VOLTAGE SUPPLY: +12 TO +15 VDC
- DC CURRENT DRAW: 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	5/16/2020
REDRAWN	
ISSUED	

Quantic PMI
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
PE2-17-218-21-12-SFF

SIZE	FSCM NO.	DWG NO.	REV.
B	05XQ0	27052680	A1

SCALE 2:1 SHEET 1 OF 1

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Typical Characteristics ON PE2-17-218-21-12-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:	14 dB Typ 12.5 dB Min	**+14.61 dB Min.** **+16.33 dB Max.** **See Graph**	**+14.86 dB Min.** **+16.75 dB Max.** **See Graph**	**+14.49 dB Min.** **+16.45 dB Max.** **See Graph**
3	Gain Flatness:	±1 dB Max	**± 0.86 dB**	**± 0.95 dB**	**± 0.98 dB**
4	Noise Figure:	6.5 dB Max	**4.26 dB** **See Graph**	**4.94 dB** **See Graph**	**5.44 dB** **See Graph**
5	OP1dB:	14 dBm Min	**+17.65 dBm** **See Graph**	**+19.94 dBm** **See Graph**	**+19.94 dBm** **See Graph**
6	Psat	27dBm	**+22.56 dBm**	**+23.33 dBm**	**+22.81 dBm**
7	VSWR In:	2 :1 Max	**1.93 :1** **See Graph**	**1.95 :1** **See Graph**	**1.96** **See Graph**
8	VSWR Out:	2 :1 Max	**1.81 :1** **See Graph**	**1.78 :1** **See Graph**	**1.78 :1** **See Graph**
9	DC Supply:	12 to 15 V @ 300 mA Max	**+12 to +15 VDC** **@ Idq 159 mA** **@ Psat 219 mA**	**+12 to +15 VDC** **@ Idq 182 mA** **@ Psat 240 mA**	**+12 to +15 VDC** **@ Idq 202 mA** **@ Psat 253 mA**

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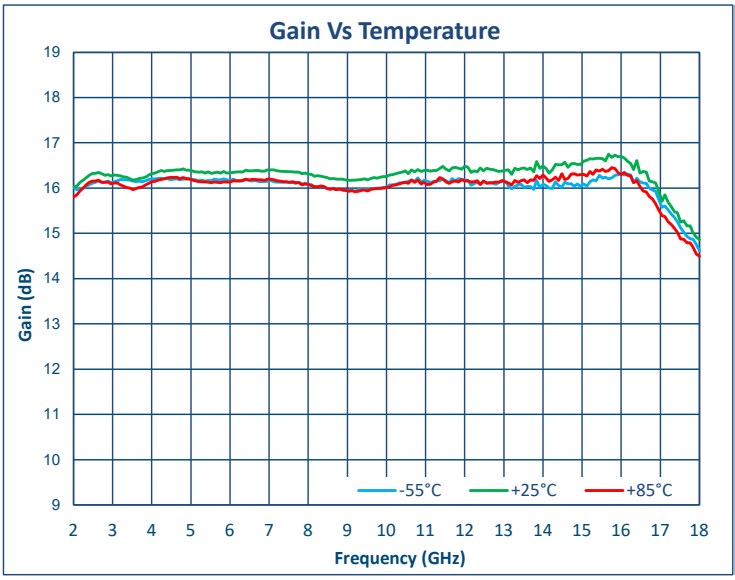

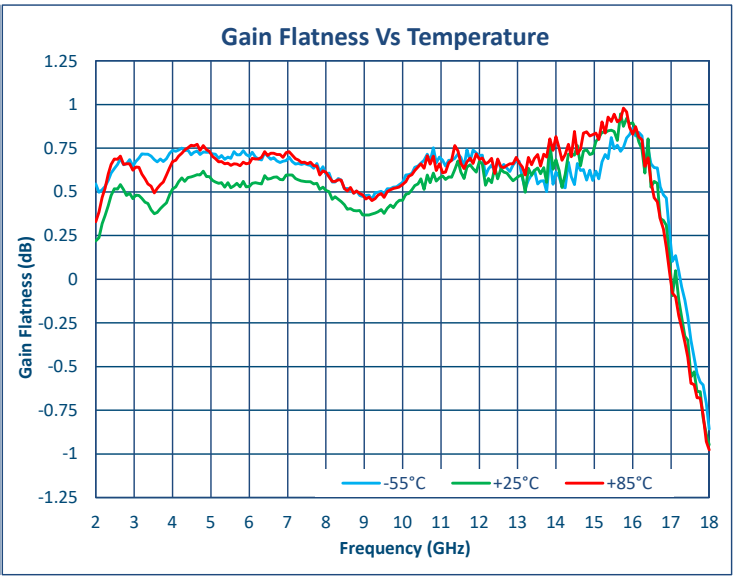

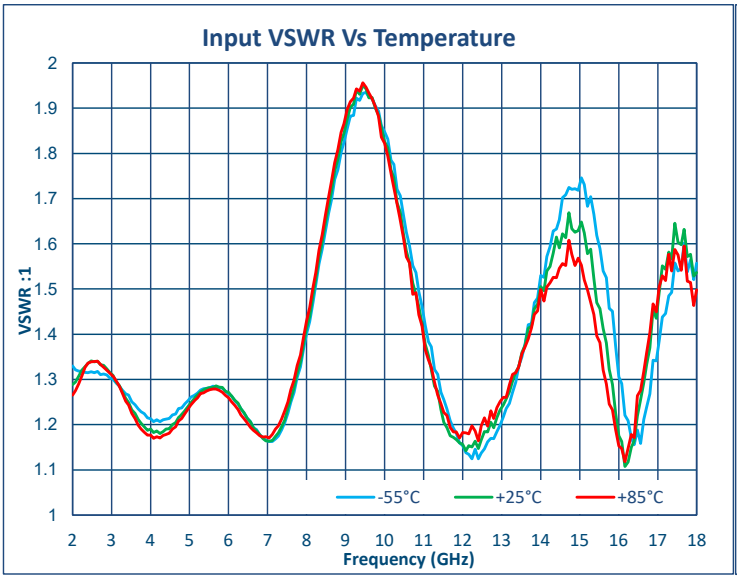

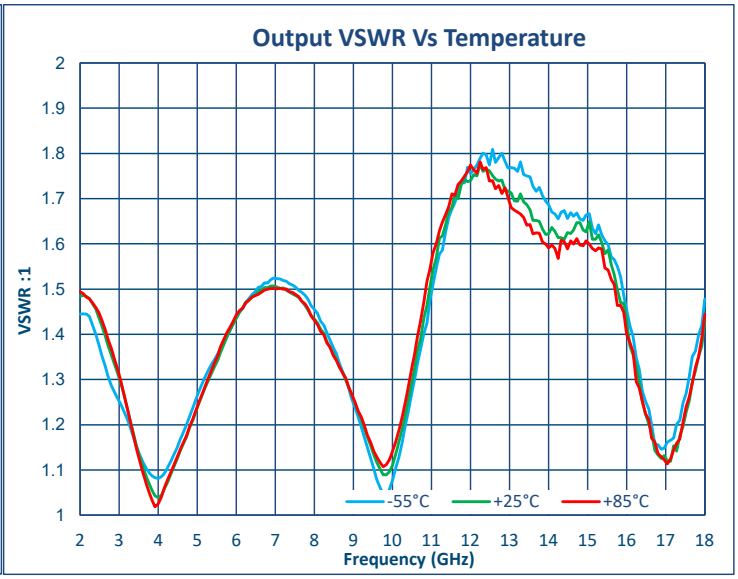

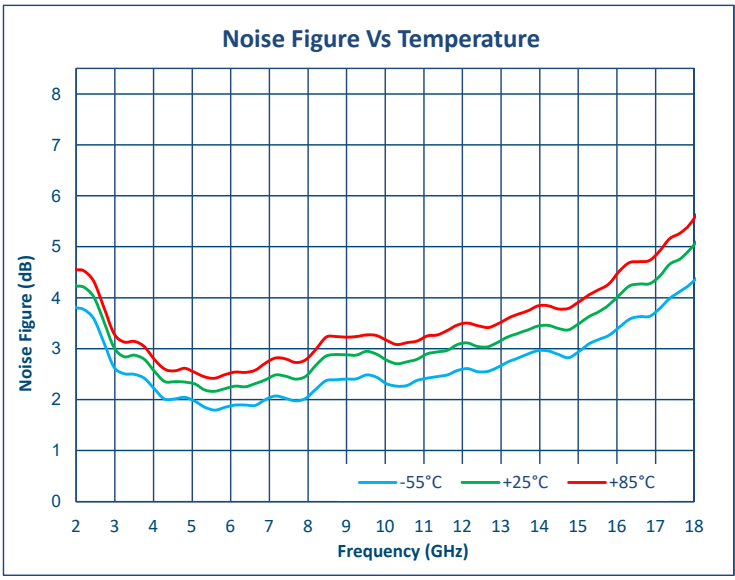

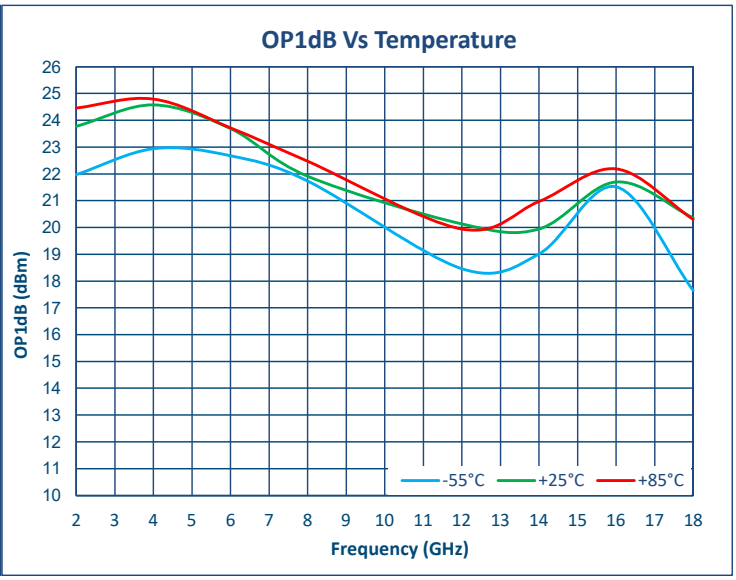

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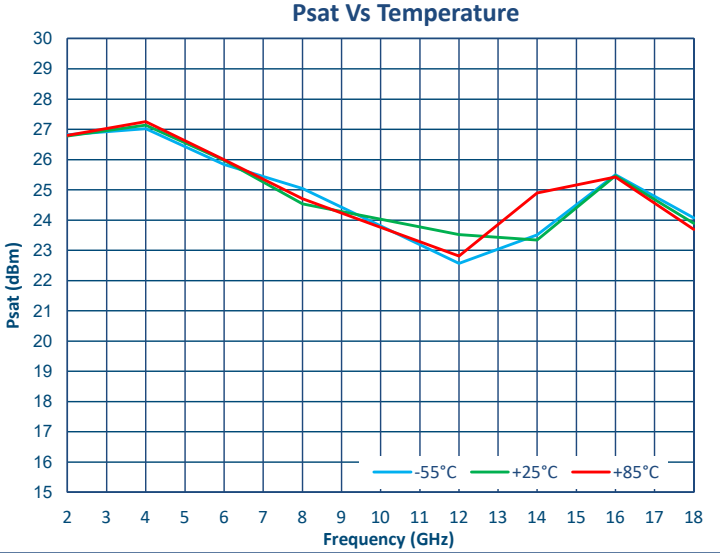

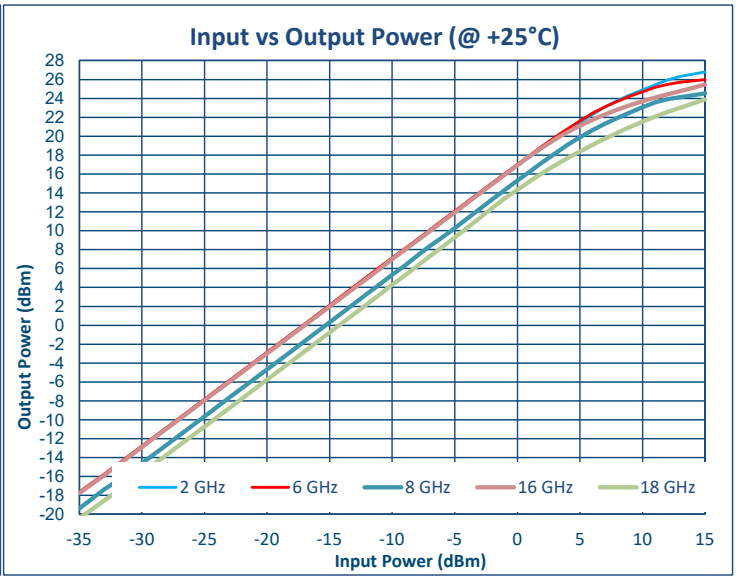

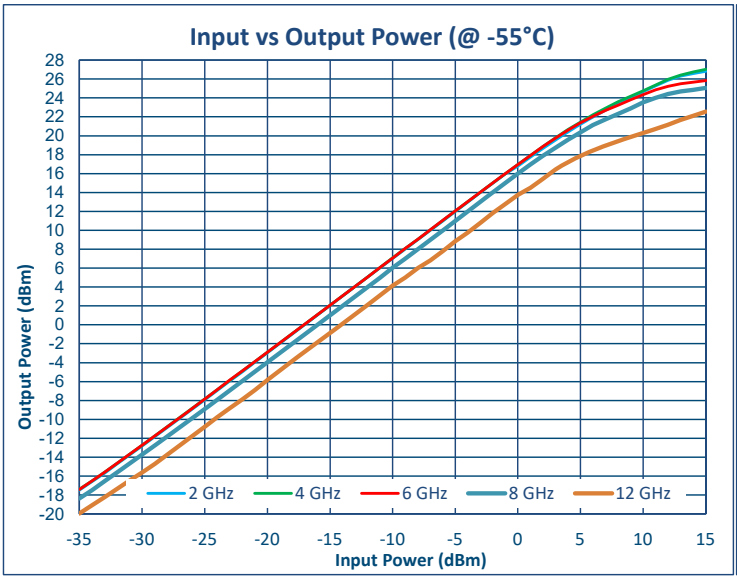

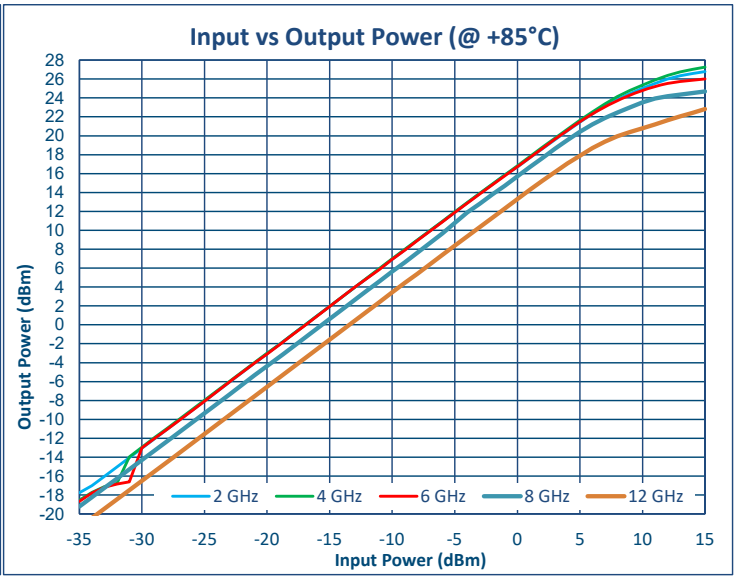

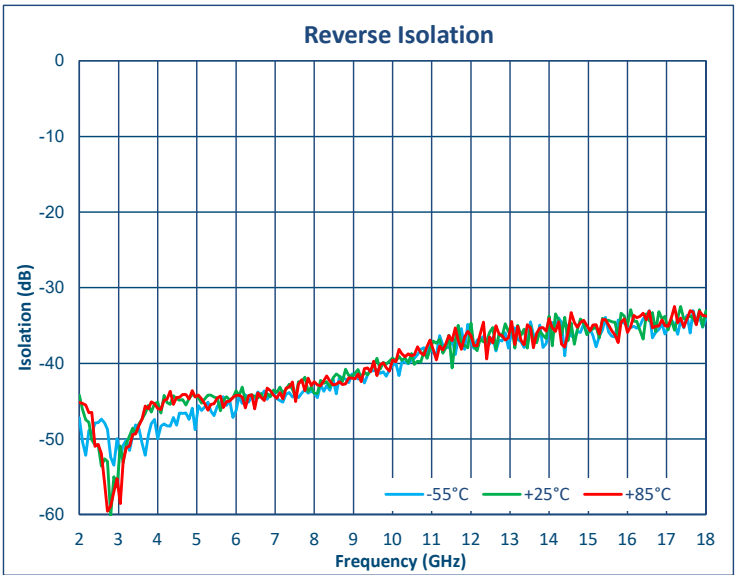

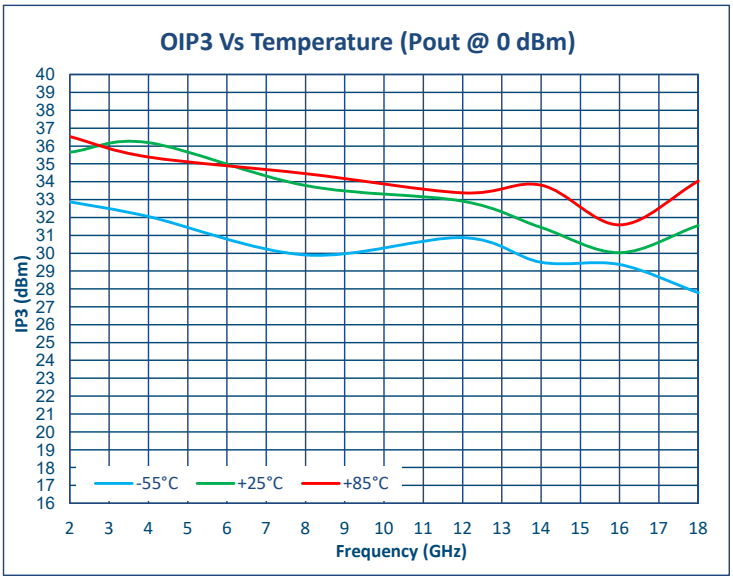

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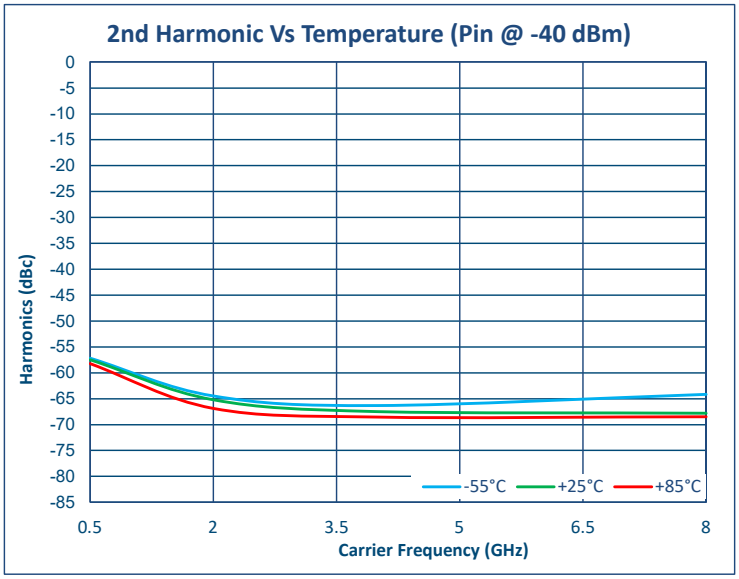

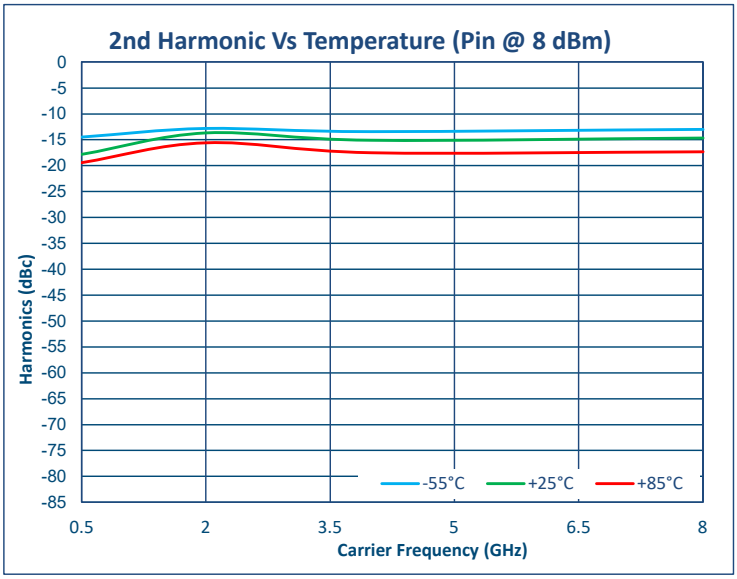

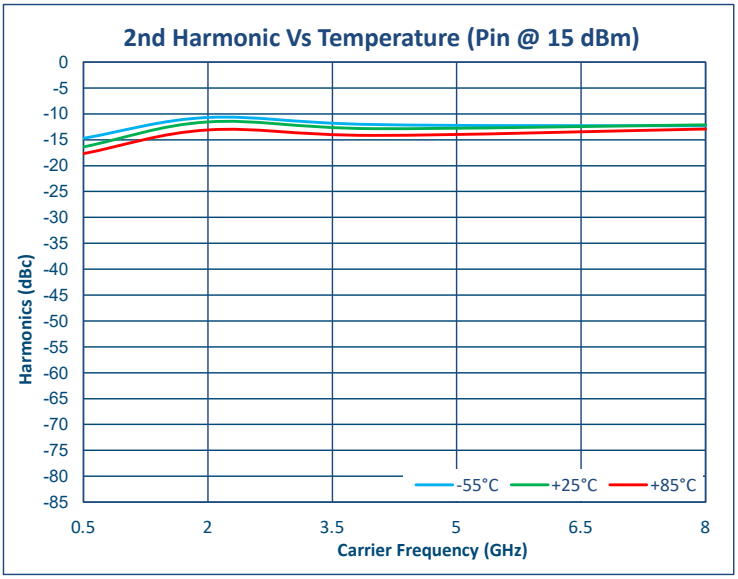

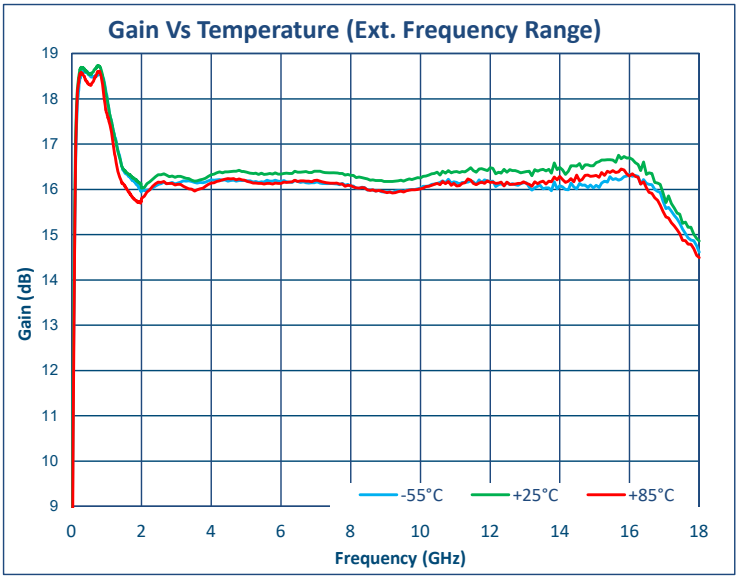

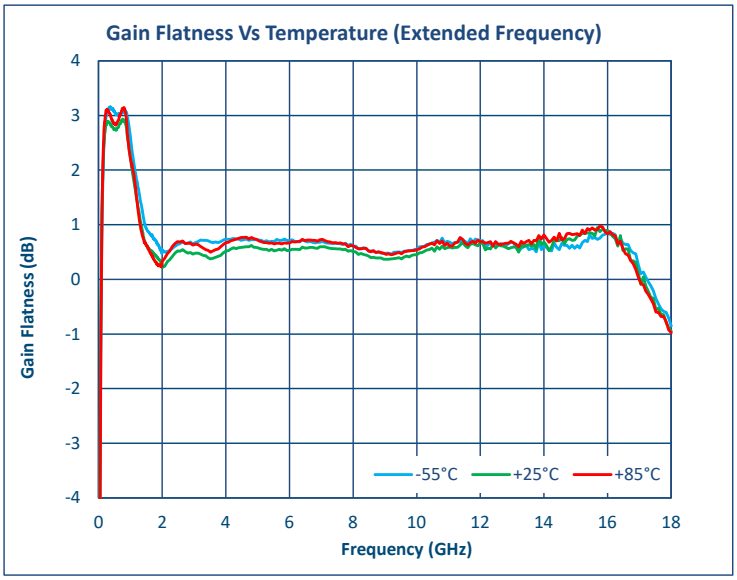

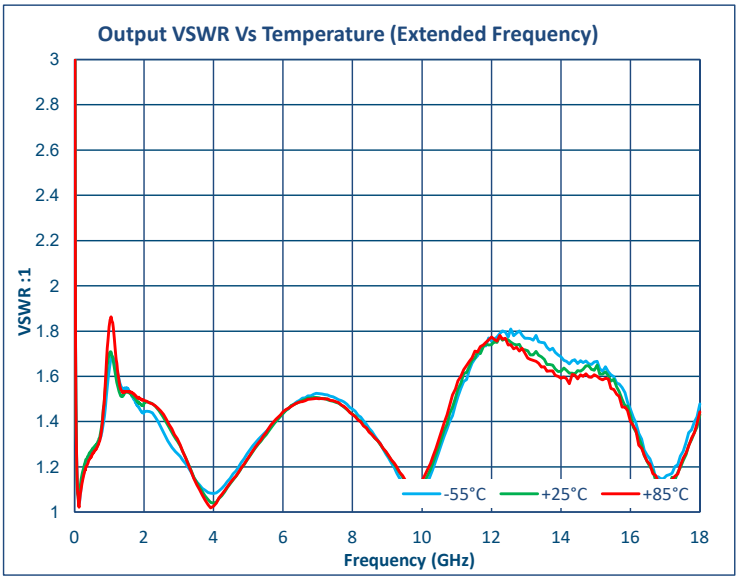

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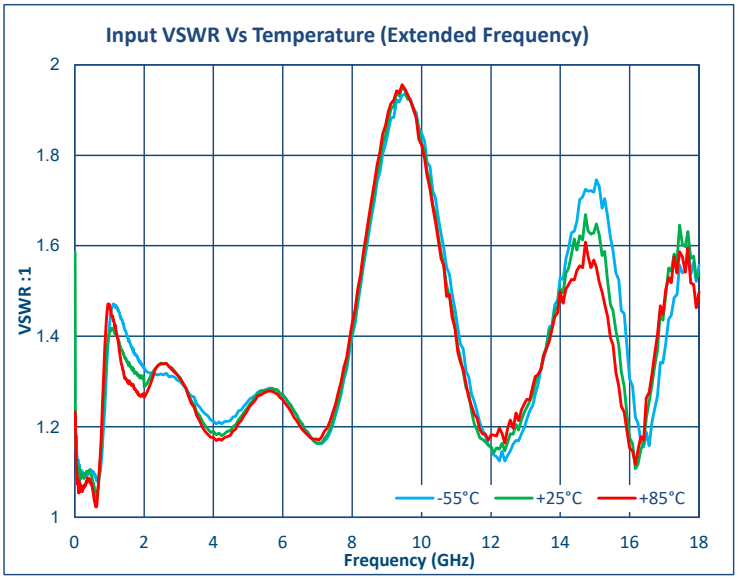

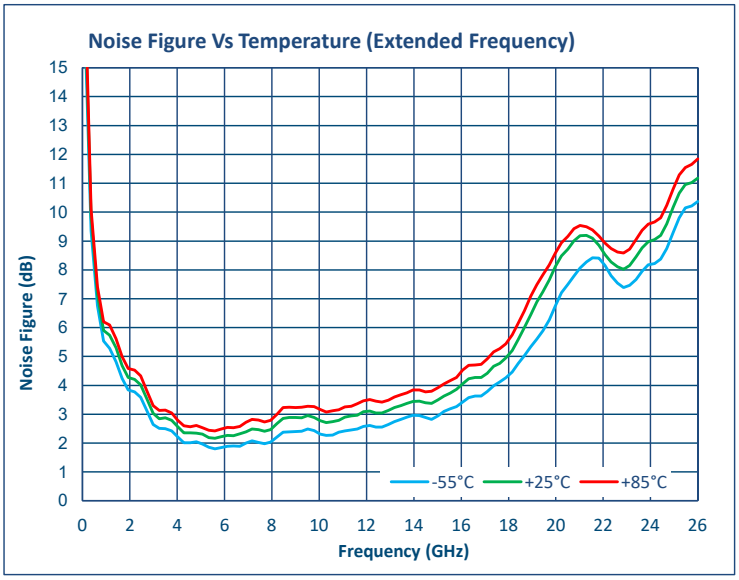

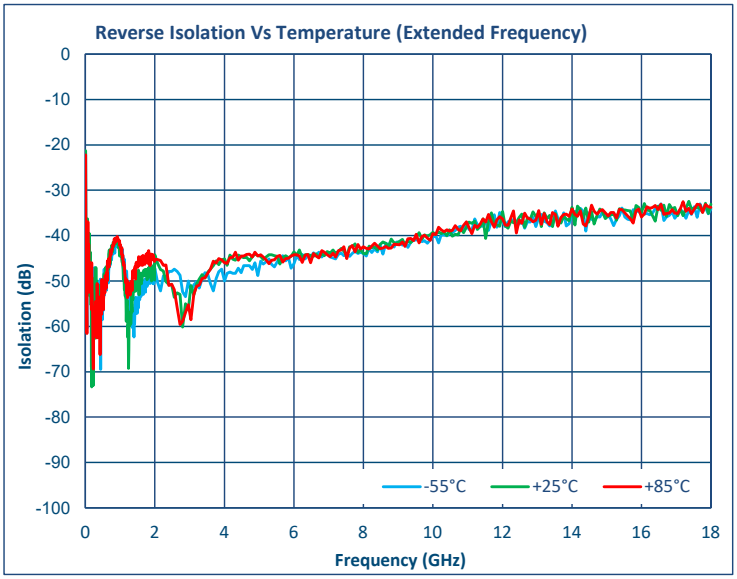

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