

**TYPICAL CHARACTERISTICS
ON
PA-618-25G-6NF-30DBM-15V-SFF-2**

PMI MODEL NUMBER PA-618-25G-6NF-30DBM-15V-SFF-2 IS A HIGH-POWER AMPLIFIER THAT OPERATES BETWEEN 6 AND 18 GHz, HAS BETWEEN 21.5 AND 24 dB OF GAIN AND HAS A TYPICAL OP1dB OF 30 dBm.



October 7, 2025

Designed By:

Engineering PMI

Tested and Reported By:

Alfredo Lopez

TYPICAL CHARACTERISTICS ON PA-618-25G-6NF-30DBM-15V-SFF-2

Outline Drawing

DESCRIPTION:

PMI MODEL NUMBER PA-618-25G-6NF-30DBM-15V-SFF-2 IS A HIGH-POWER AMPLIFIER THAT OPERATES BETWEEN 6 AND 18 GHz, HAS BETWEEN 21.5 TO 24 dB OF GAIN AND HAS A TYPICAL OP1dB OF 30 dBm.

SPECIFICATIONS:

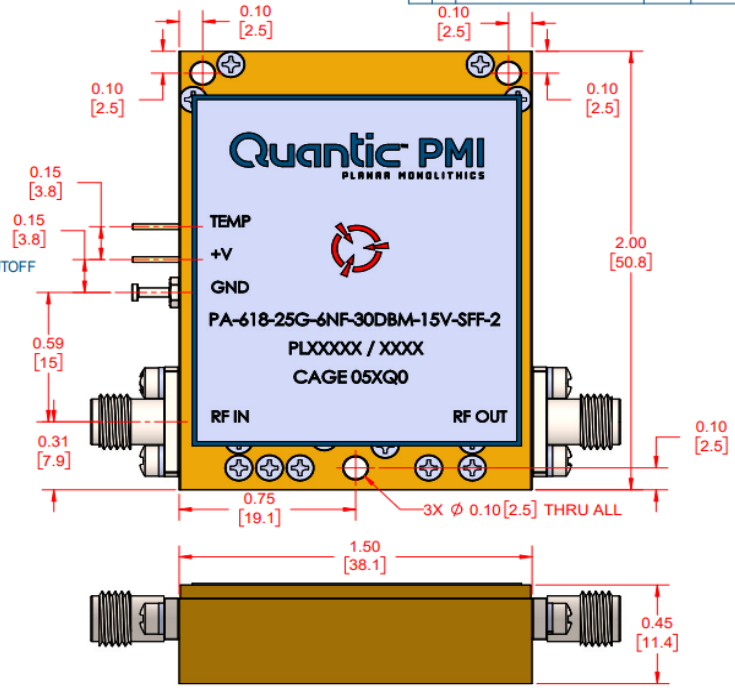
- FREQUENCY RANGE:..... 6.0 TO 18.0 GHz
- GAIN:..... 21.5 dB MIN / 24 dB MAX
- GAIN FLATNESS:..... ± 1.5 dB MAX
- VSWR IN/OUT:..... 2.0:1 MAX
- NOISE FIGURE:..... 5 dB TYP / 8.5 dB MAX
- OP1dB:..... 30 dBm TYP
- INPUT POWER:..... 27 dBm MAX
- SUPPLY VOLTAGE AND CURRENT:..... +15 VDC @ 1 A (Iq)
- DETECTION OF OVERHEAT (TEMP)(OUTPUT):..... "0" = OVERHEAT WITH AUTOMATIC SHUTOFF
"3.3V" = NORMAL OPERATION
- CONNECTORS:..... SMA FEMALE
- FINISH:..... GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +85°C (OPERATING)
-55°C TO +125°C (STORAGE)
- HUMIDITY:..... MIL-STD-202, METHOD 103B COND. B
- SHOCK:..... MIL-STD-202, METHOD 213B COND. B
- VIBRATION:..... MIL-STD-202, METHOD 204B 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	10/10/2024	



PMI CONFIDENTIAL AND PROPRIETARY

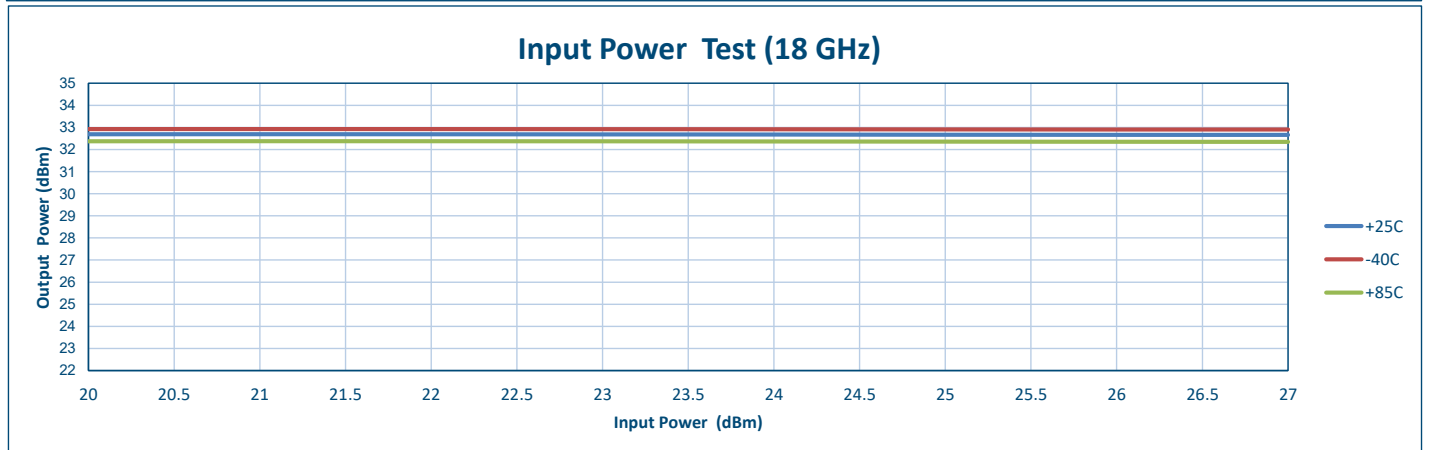
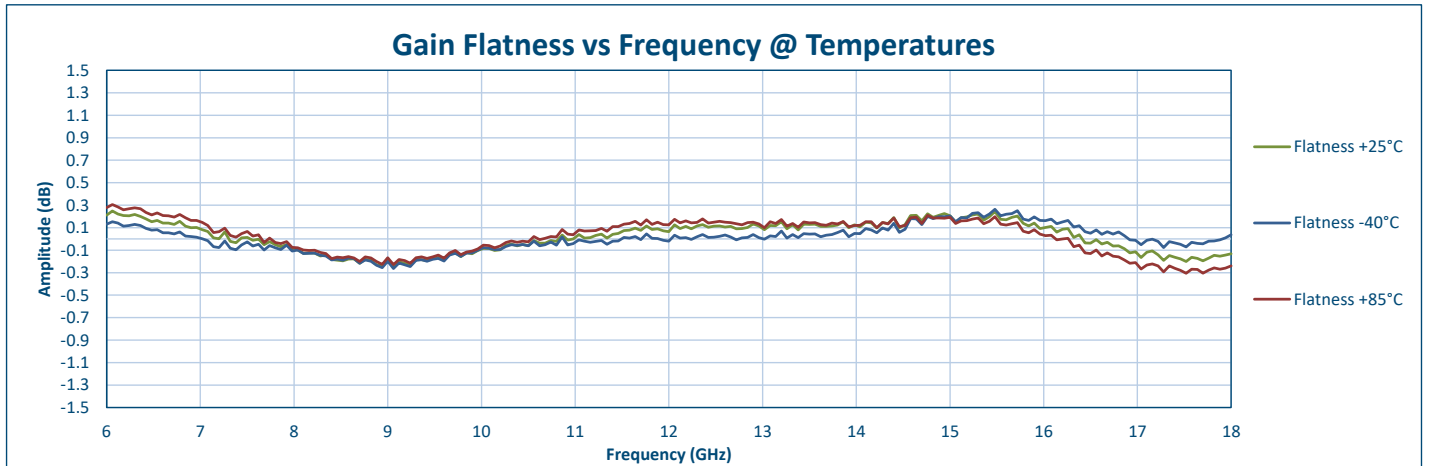
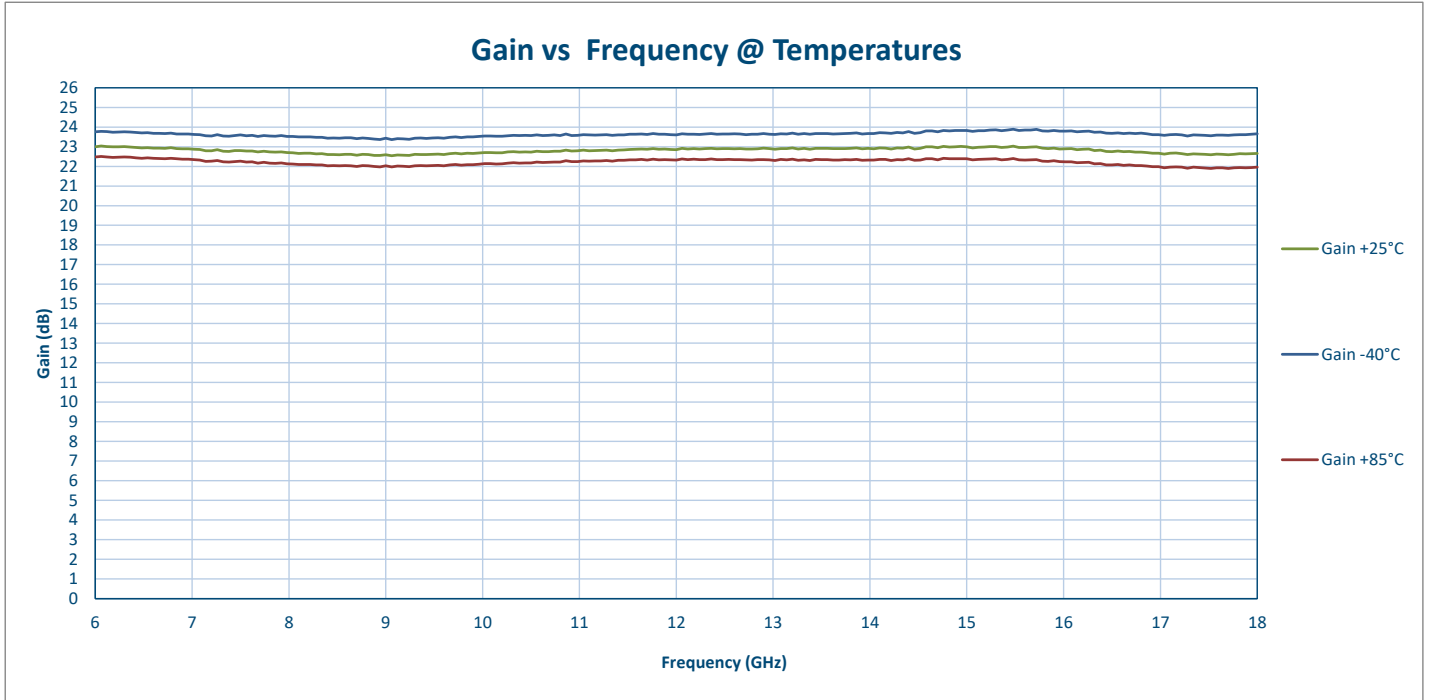
APPROVALS		DATE	TITLE	
DESIGN	S AZHAR	10/10/2024	OUTLINE	
ISSUED			PA-618-25G-6NF-30DBM-15V-SFF-2	REV: A1
			SIZE: B	SCALE: 5:1
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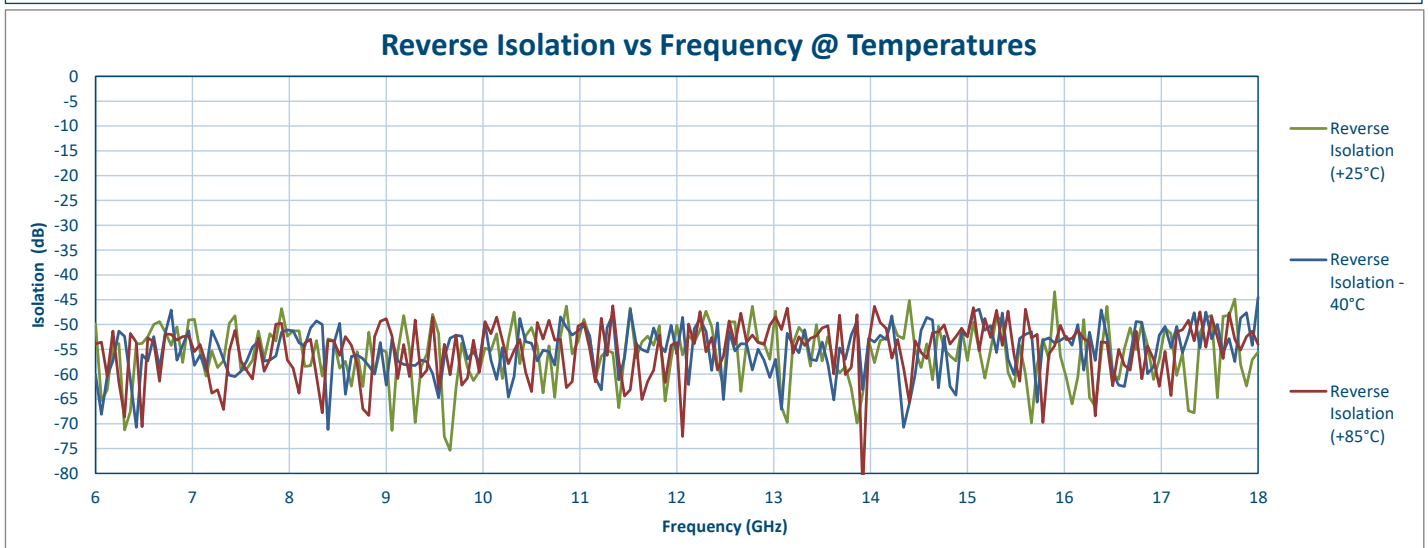
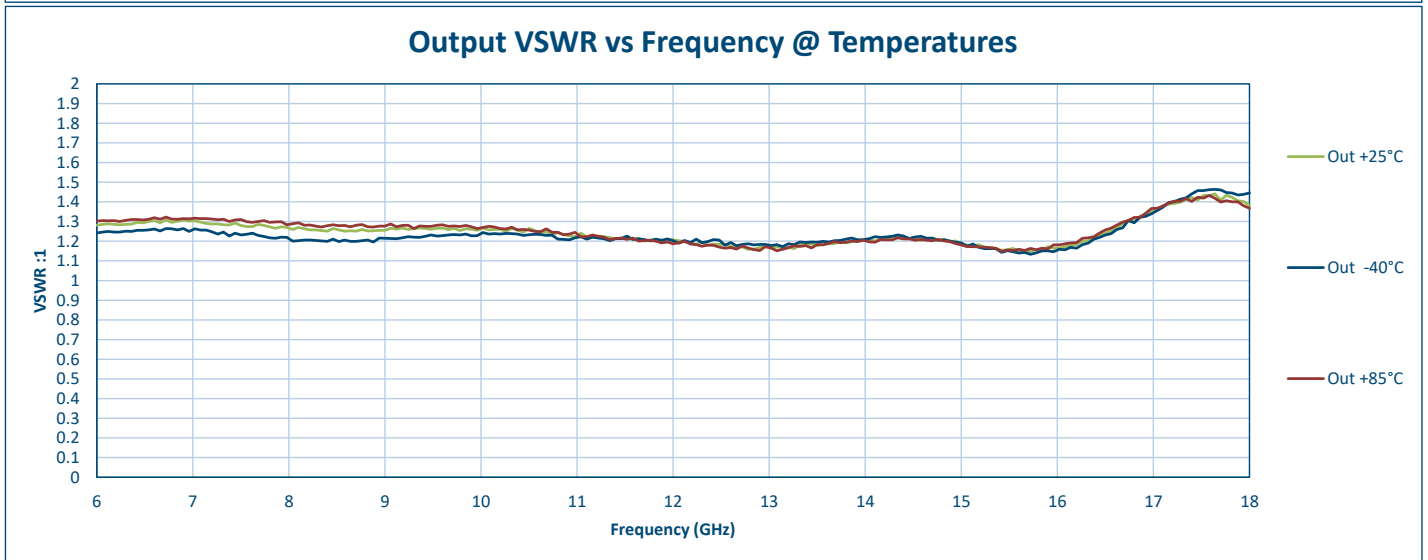
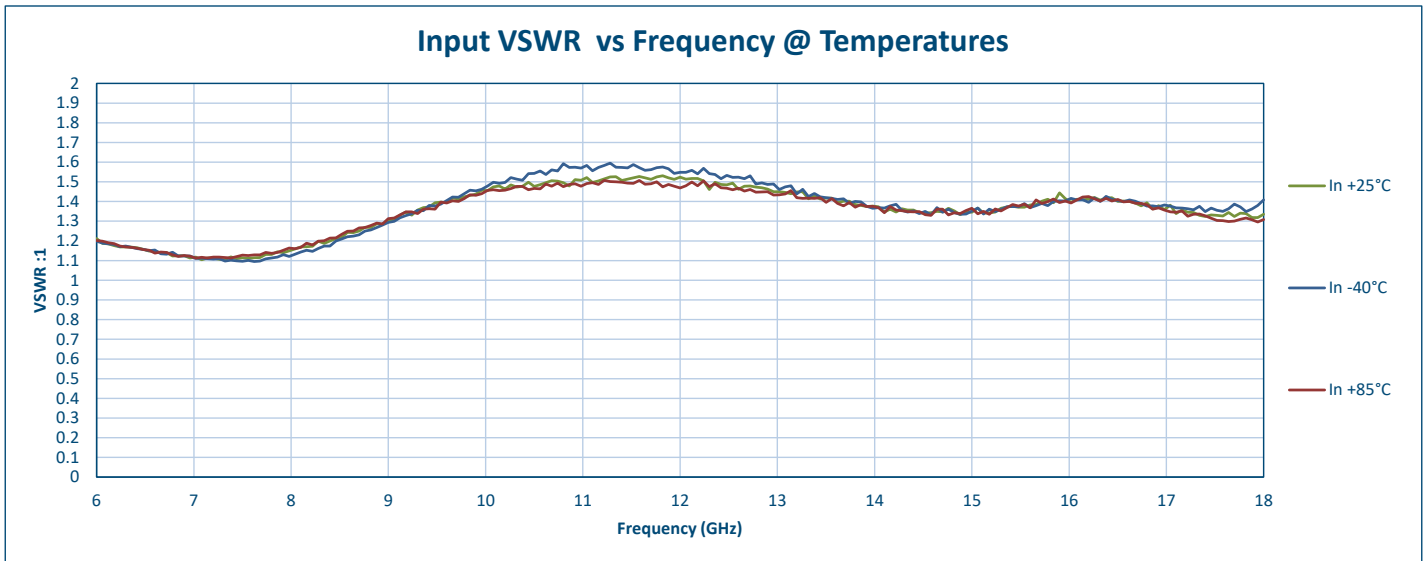
Technical specifications

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-40°C	+85°C
1	Frequency Range:	6.0 - 18.0 GHz	6.0 - 18.0 GHz	6.0 - 18.0 GHz	6.0 - 18.0 GHz
2	Gain:	+24 dB Max. +21.5 dB Min.	+ 23.04 dB Max. + 22.54 dB Min. See Graph	+ 23.89 dB Max. + 23.36 dB Min. See Graph	+ 22.5 dB Max. + 21.89 dB Min. See Graph
3	Gain Flatness:	±1.5 dB Max.	±0.25 dB See Graph	±0.26 dB See Graph	±0.21 dB See Graph
4	VSWR: (In/Out)	2.0:1 Max.	1.53 :1 See Graph	1.6 :1 See Graph	1.51 :1 See Graph
5	Input Power	27 dBm Max.	Pass +27 dBm	Pass +27 dBm	Pass +27 dBm
6	OP1dB:	30 dBm Typ.	+ 28.82 dBm See Graph	+ 29.39 dBm See Graph	+ 28.11 dBm See Graph
7	Noise Figure:	5 dB Typ. 8.5 dB Max	4.18 dB See Graph	3.78 dB See Graph	4.44 dB See Graph
8	DC Supply:	+15 VDC @ 1 A (Iq)	+15 VDC @ 710 mA	+15 VDC @ 700 mA	+15 VDC @ 730 mA
9	Detection of Overheat (Temp)	"0" = OVERHEAT WITH AUTOMATIC SHUTOFF "3.3V" = NORMAL OPERATION	Set "0V" = Automatic ShutOFF "3.3V = Operation	Set "0V" = Automatic ShutOFF "3.3V = Operation	Set "0V" = Automatic ShutOFF "3.3V = Operation

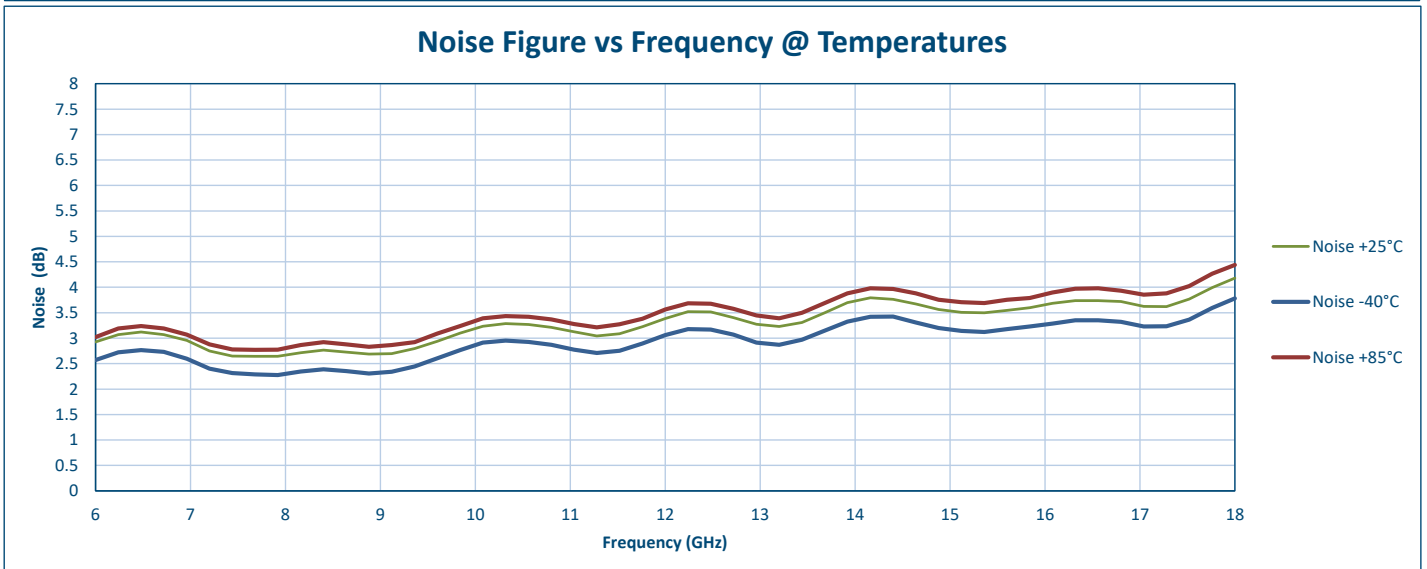
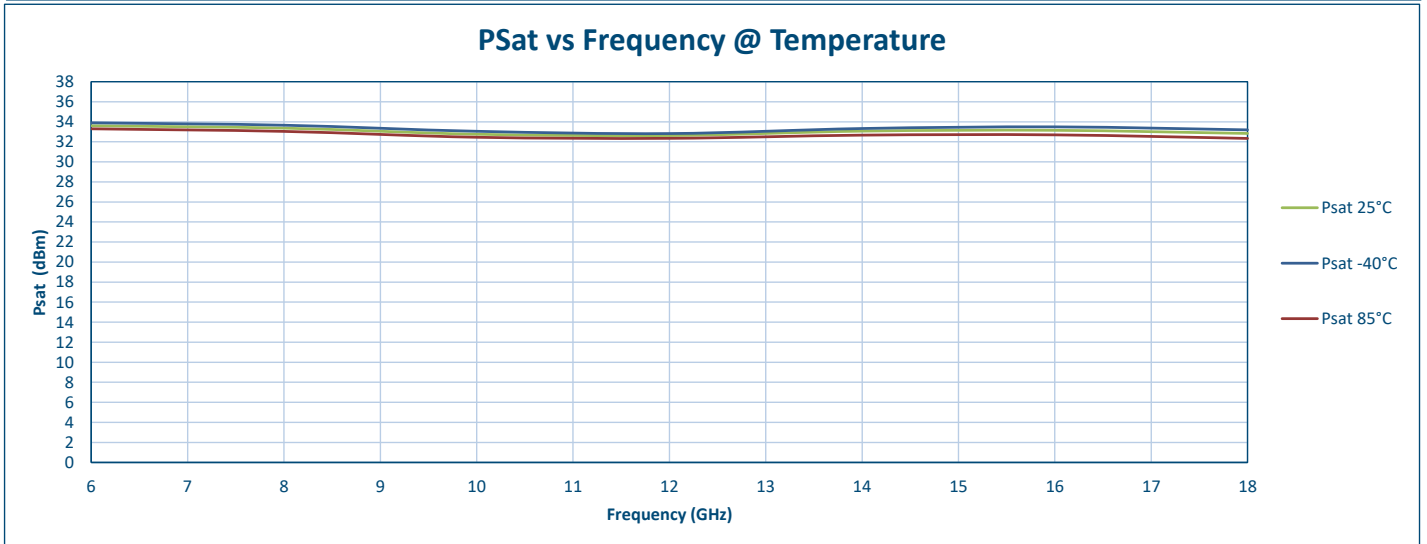
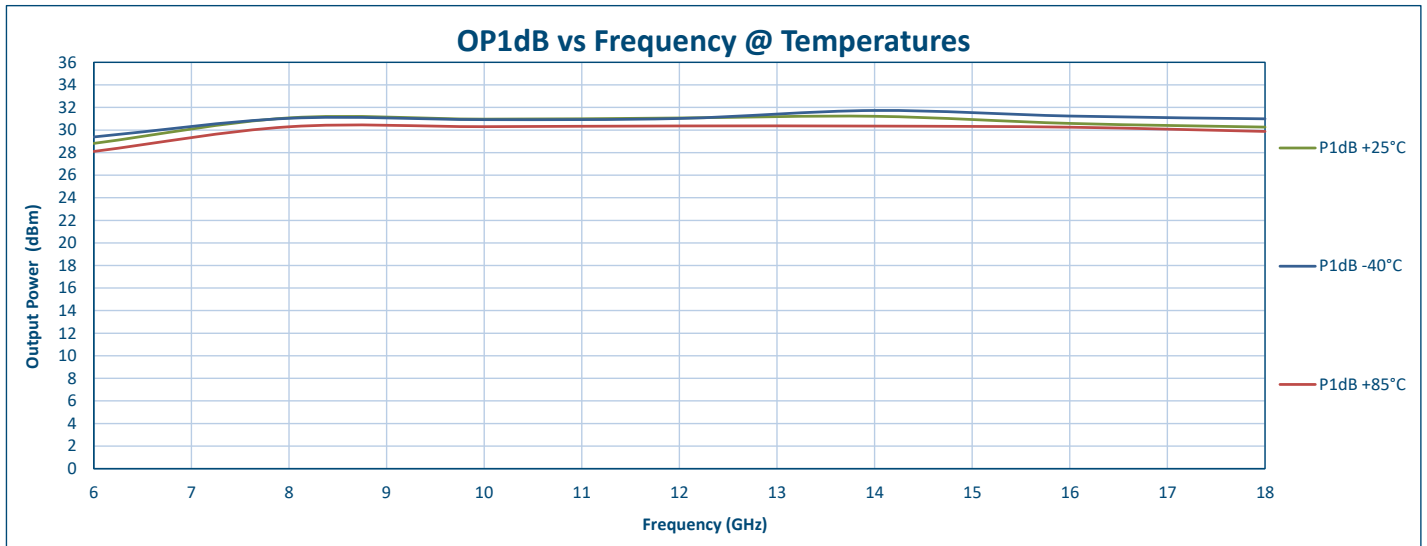
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