

**TYPICAL CHARACTERISTICS
ON
PEC-85-725M1275M-17LM-12-SFF**

PMI MODEL NO. PEC-85-725M1275M-17LM-12-SFF IS A LIMITING AMPLIFIER WITH THE FREQUENCY RANGE OF 725 MHZ TO 1275 MHZ.



June 26, 2025

**Reported By:
S. Lange**

**Tested By:
E. Kretz**

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PRODUCT FEATURE

DESCRIPTION:

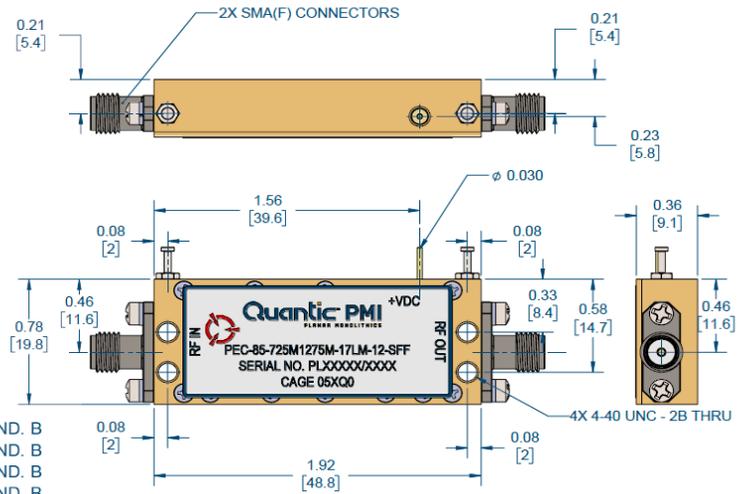
PMI MODEL NO. PEC-85-725M1275M-17LM-12-SFF IS A LIMITING AMPLIFIER WITH THE FREQUENCY RANGE OF 725 MHZ TO 1275 MHZ.

SPECIFICATIONS:

- FREQUENCY RANGE:..... 725 MHz TO 1275 MHz
- GAIN:..... 81 dB +/-5 dB (76 to 89 dB) TYP
- GAIN FLATNESS:..... ± 2.0 dB MAX
- NOISE FIGURE:..... 5 dB TYP
- LIMITED RF OUTPUT:..... +15.5 dBm to +18.5 dBm
- VSWR IN/OUT:..... 2.0:1 MAX
- INPUT POWER:..... -55 dBm to +10 dBm
- DC SUPPLY:..... +12 VDC @ 425 mA TYP
- FINISH:..... GOLD PLATED

ENVIRONMENTAL RATINGS:

- TEMPERATURE:..... -40°C TO +95°C (OPERATING)
-65°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 204D 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	3/30/2018	

PMI CONFIDENTIAL AND PROPRIETARY

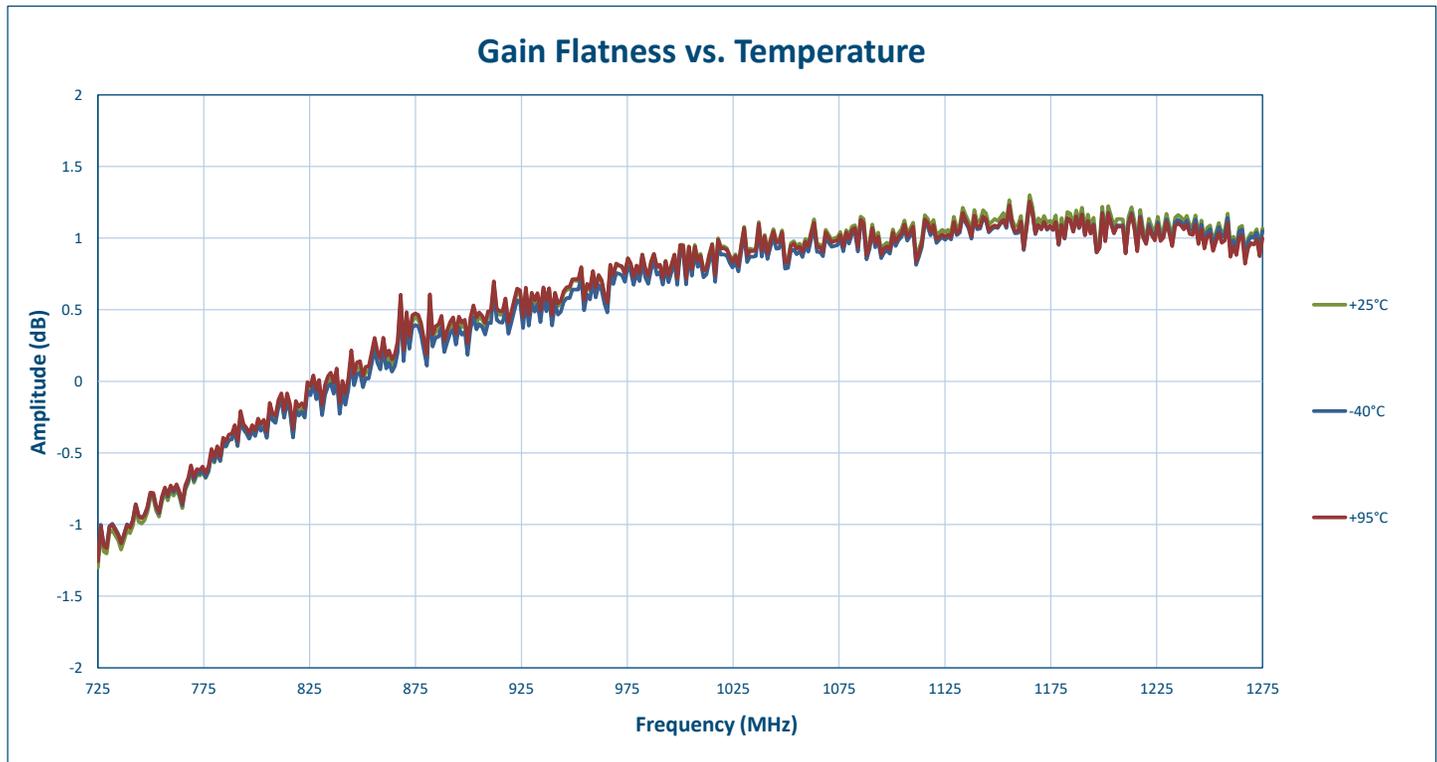
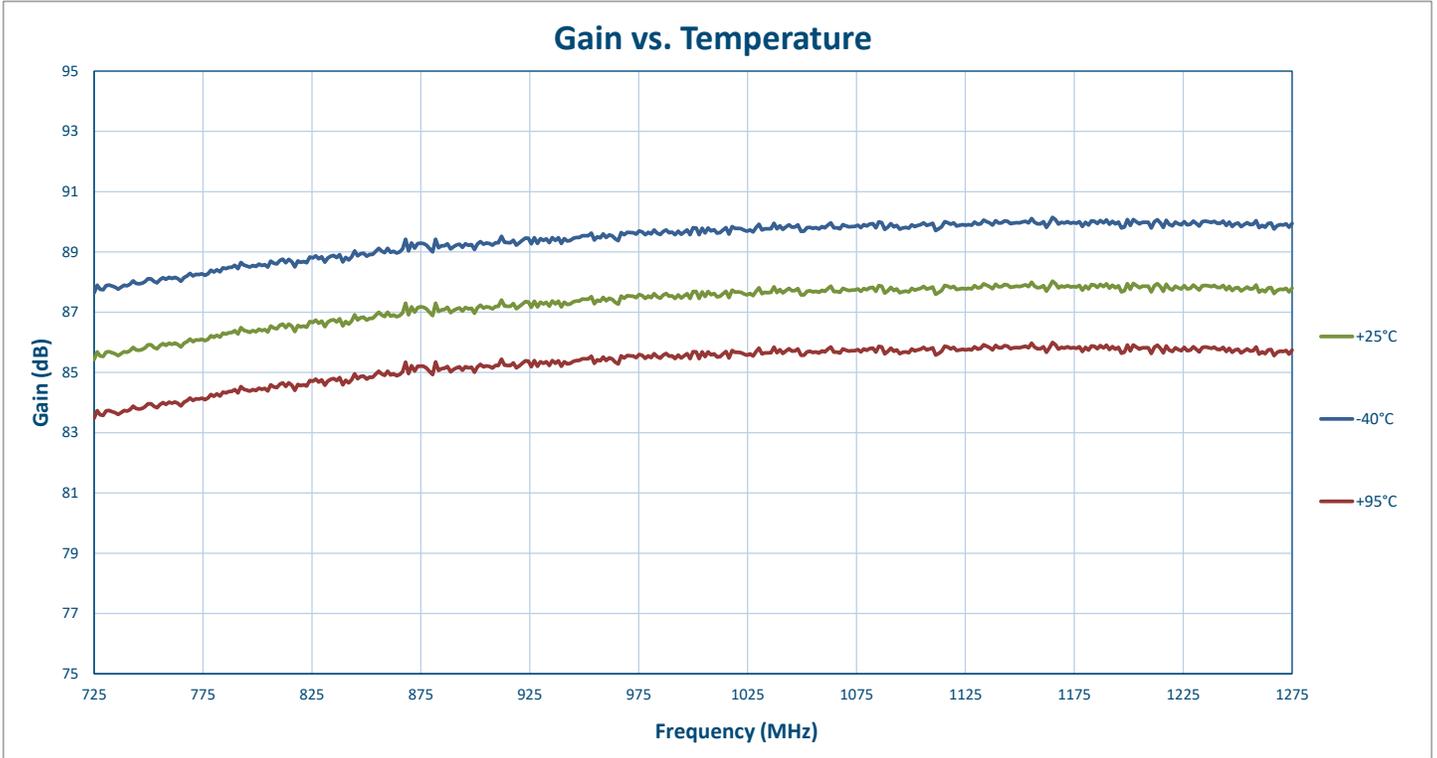
APPROVALS		DATE	TITLE	
DESIGNED	S. LANGE	3/30/18	OUTLINE	
REDRAWN			PEC-85-725M1275M-17LM-12-SFF	
REVISION			SIZE	FRONT NO.
			B	05X00
			DWG NO.	27050800
			SCALE	2:1
				SHEET 1 OF 1

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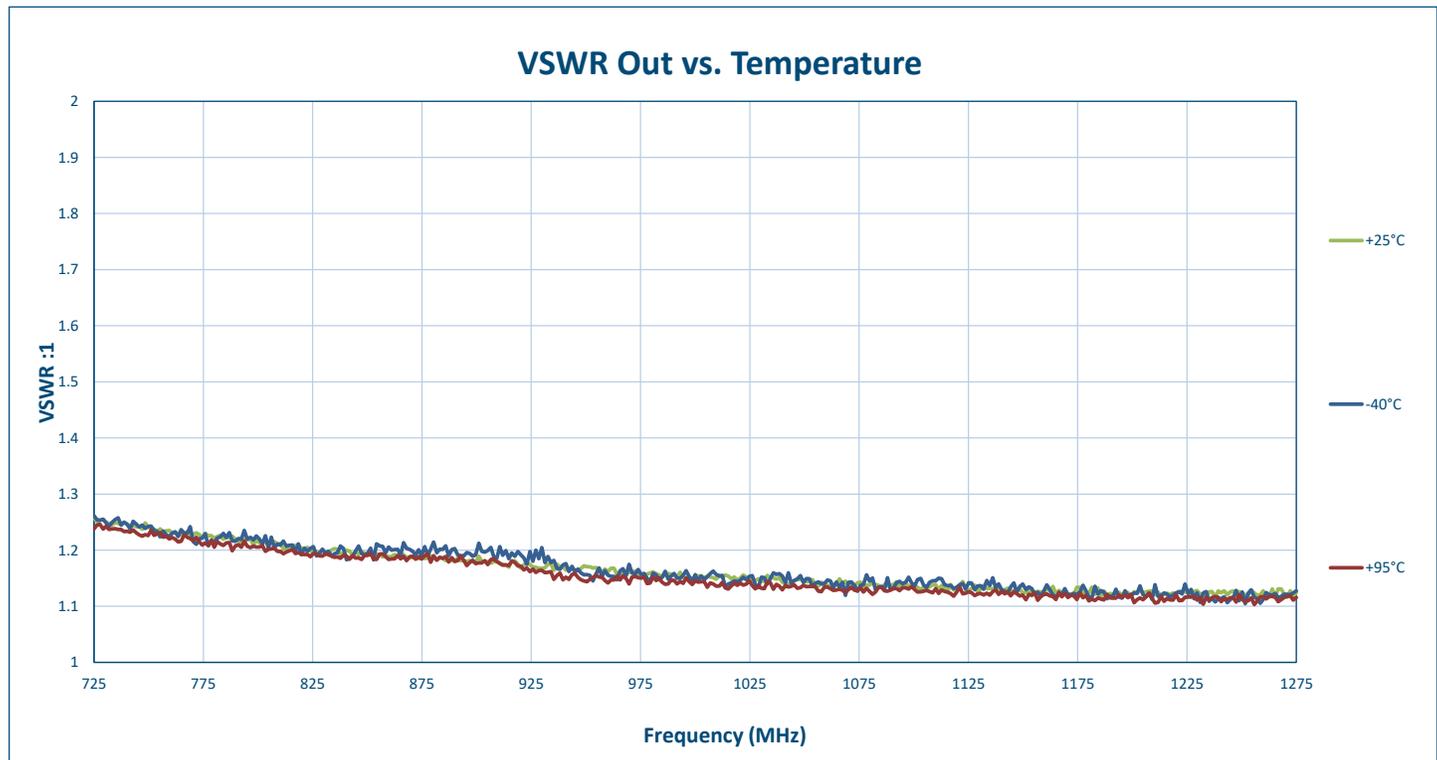
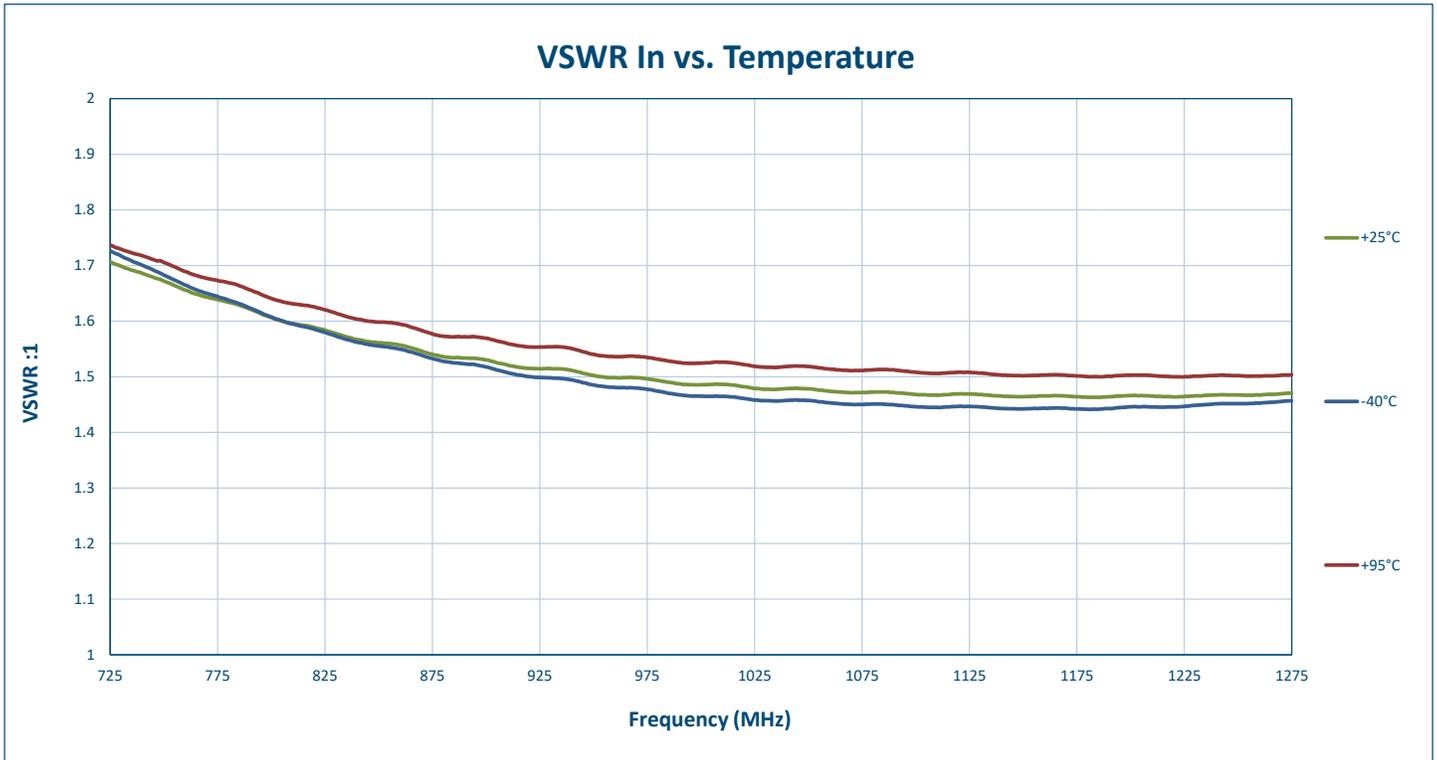
Technical Specifications

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-40°C	+95°C
1	Frequency Range:	725 - 1275 MHz	725 - 1275 MHz	725 - 1275 MHz	725 - 1275 MHz
2	Gain:	+81 dB +8/-5 dB (76 to 89 dB) Typ	+85.43 dB Min. +88.03 dB Max. See Graph	+87.64 dB Min. +90.15 dB Max. See Graph	+83.48 dB Min. +86 dB Max. See Graph
3	Gain Flatness:	±2.0 dB Max.	±1.3 dB Max. See Graph	±1.25 dB Max. See Graph	±1.26 dB Max. See Graph
4	Noise Figure:	5 dB Typ	4.27 dB Max. See Graph	4.61 dB Max. See Graph	4.3 dB Max. See Graph
5	Limited RF Output:	+15.5 dBm to +18.5 dBm	+16.45 dBm Min. +17.97 dBm Max. See Graph	+16.52 dBm Min. +18.13 dBm Max. See Graph	+16.28 dBm Min. +17.74 dBm Max. See Graph
6	Input Power Handling:	-55 dBm to +10 dBm	-55 dBm to +10 dBm	-55 dBm to +10 dBm	-55 dBm to +10 dBm
7	VSWR: (Input/Output)	2.0:1 Max	1.71 :1 (In) Max. 1.26 :1 (Out) Max. See Graph	1.73 :1 (In) Max. 1.26 :1 (Out) Max. See Graph	1.74 :1 (In) Max. 1.25 :1 (Out) Max. See Graph
8	DC Supply:	+12 VDC @ 425 mA Typ	+12 VDC @ 403 mA	+12 VDC @ 401 mA	+12 VDC @ 411 mA

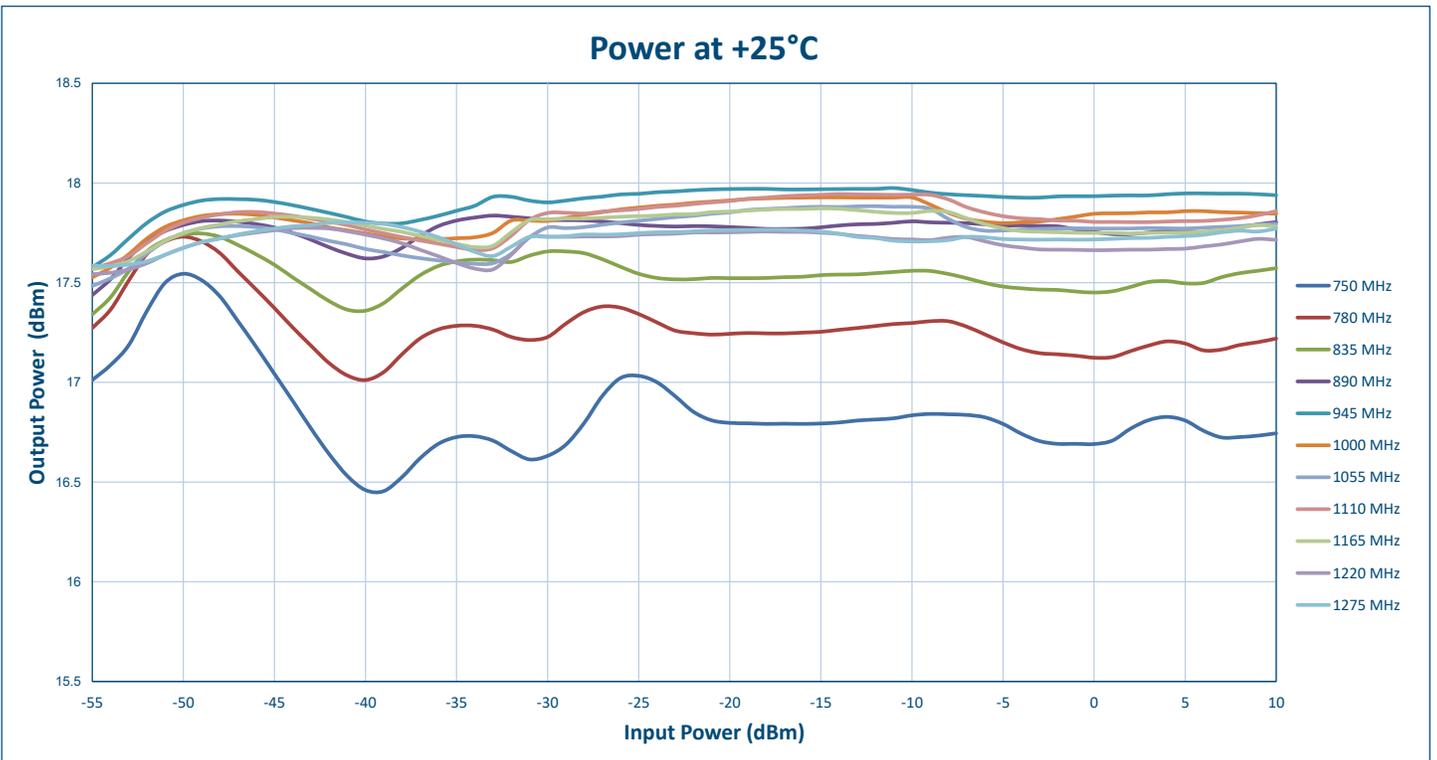
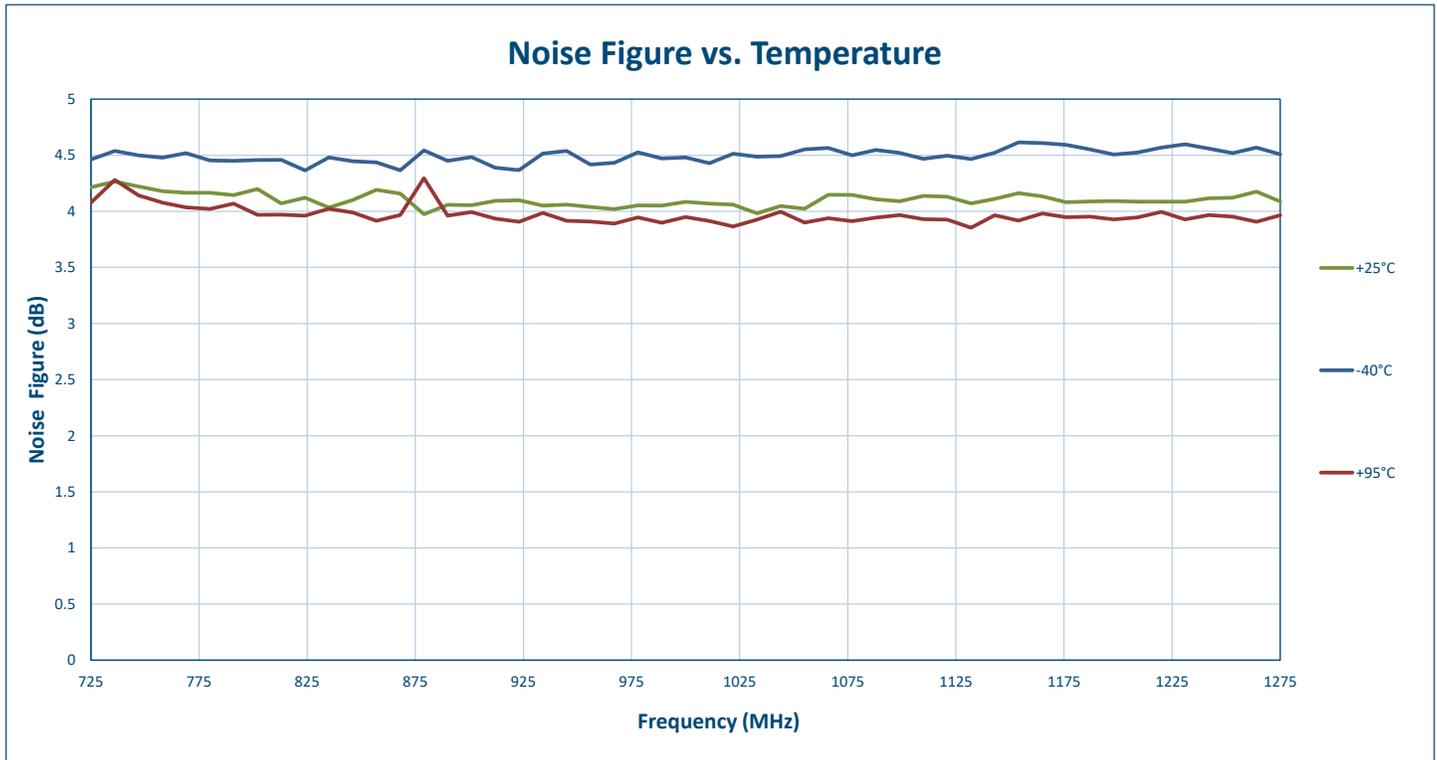
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