

**TYPICAL CHARACTERISTICS
ON
PEC-50-500M40G-20-12-292FF-BG**

MODEL NUMBER PEC-50-1G40G-20-12-292FF-BG IS A 500 MHz - 40 GHz LOW NOISE AMPLIFIER. THIS AMPLIFIER HAS AN OUTPUT P1dB OF +19 dBm TYPICAL UP TO 40 GHz



April 29, 2025

Designed By:

Engineering PMI

Tested and Reported By:

Alfredo Lopez

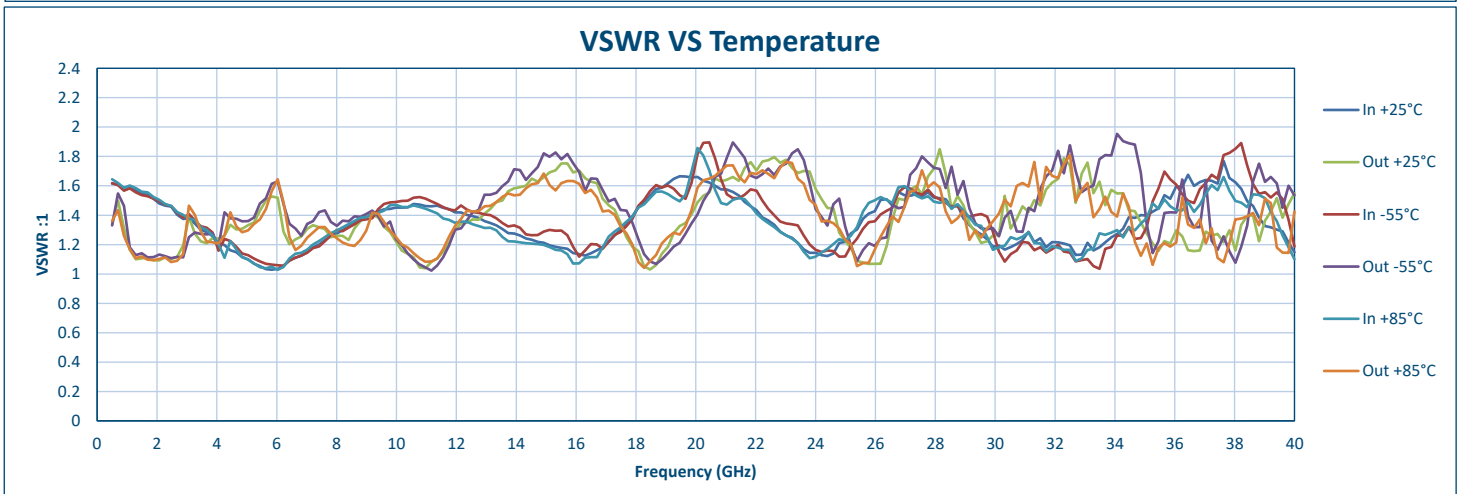
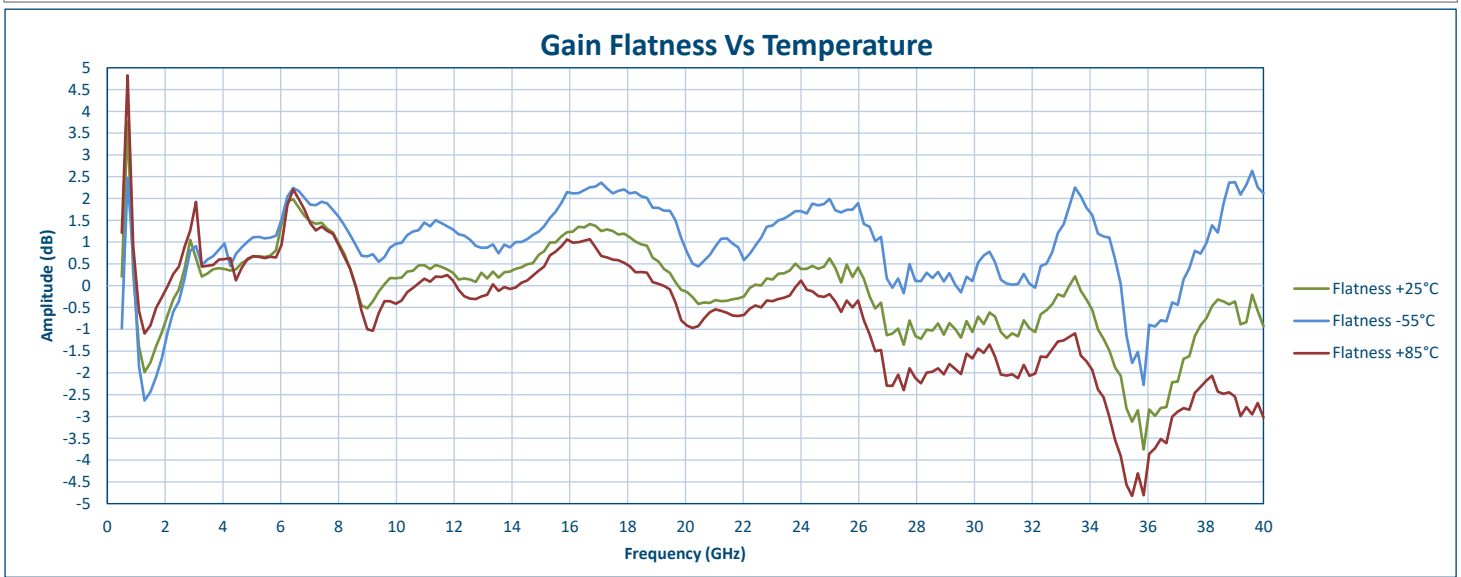
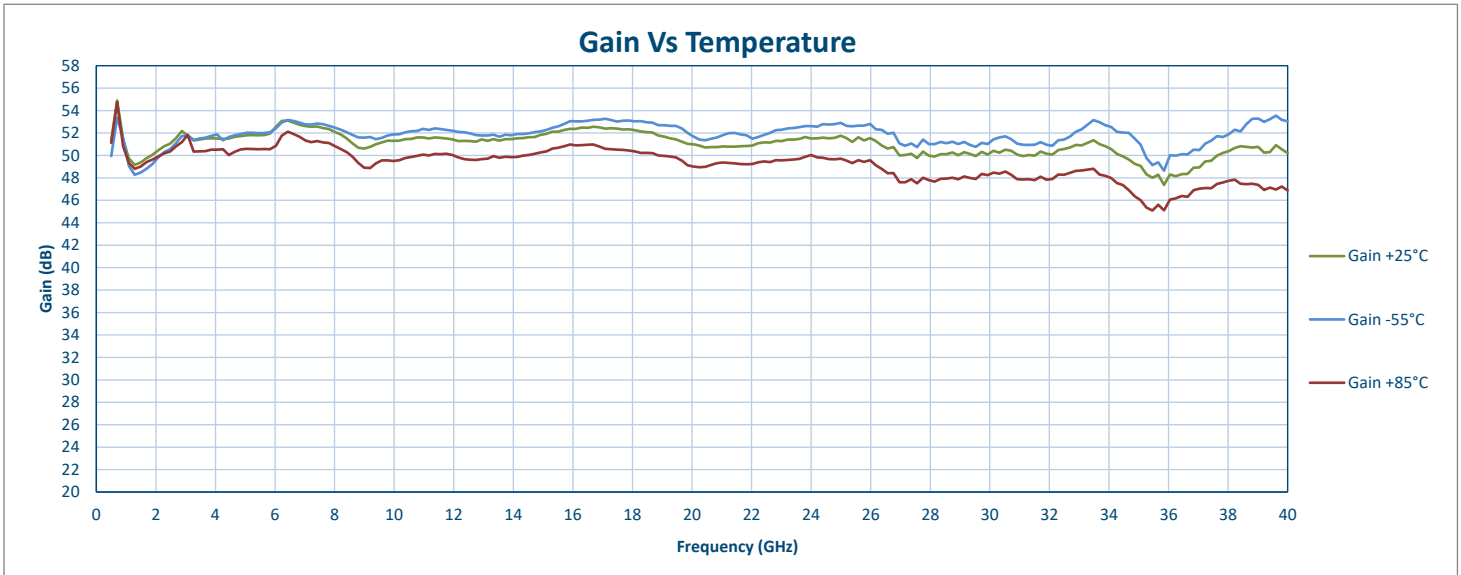
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Technical specifications

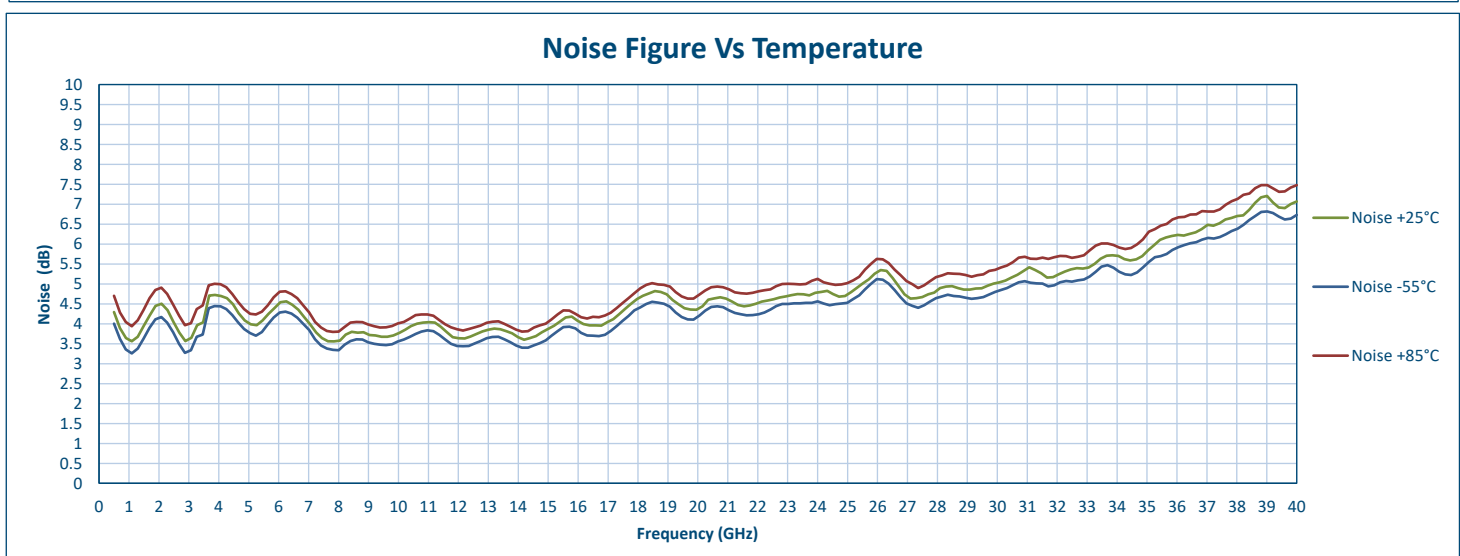
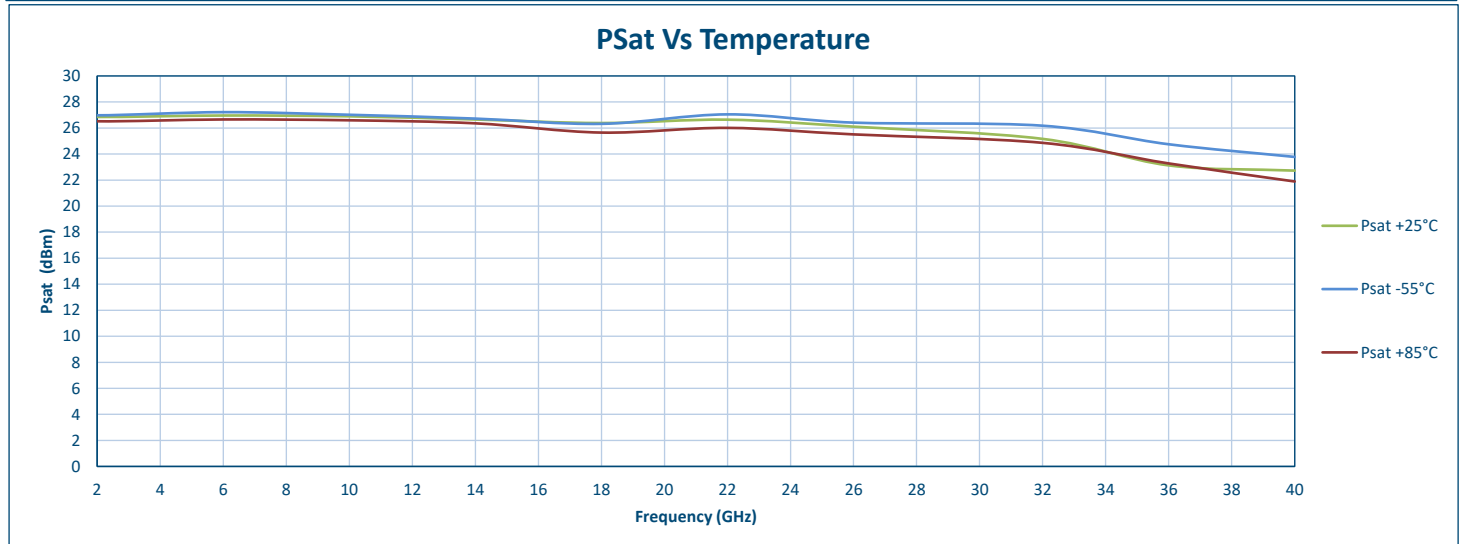
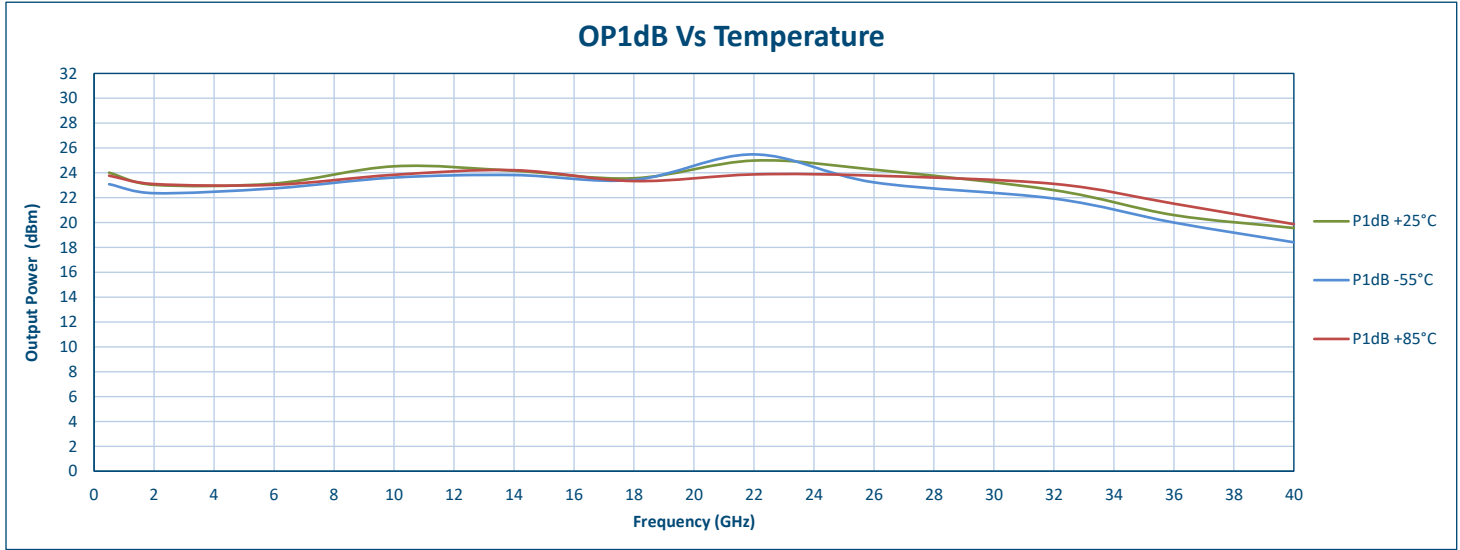
TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results		
			+25°C	-55°C	+85°C
1	Frequency Range:	500 MHz - 40 GHz	500 MHz - 40 GHz	500 MHz - 40 GHz	500 MHz - 40 GHz
2	Gain:	50 dB Typ.	+ 54.89 dB Max. + 47.38 dB Min. See Graph	+ 53.55 dB Max. + 48.28 dB Min. See Graph	+ 54.74 dB Max. + 45.09 dB Min. See Graph
3	Gain Flatness:	±2.5 dB Typ.	±3.76 dB See Graph	±2.63 dB See Graph	±4.82 dB See Graph
4	*Noise Figure:	5.5 dB Typ. (Up to 26.5 GHz)	5.35 dB (0.5 to 26.5 GHz)	5.12 dB (0.5 to 26.5 GHz)	5.63 dB (0.5 to 26.5 GHz)
			7.21 dB (26.5 to 40 GHz)	6.82 dB (26.5 to 40 GHz)	7.48 dB (26.5 to 40 GHz)
			See Graph	See Graph	See Graph
5	OP1dB:	+22 dBm Typ. (1-18 GHz) +19 dBm Typ. (18-40 GHz)	+ 23.03 dBm	+ 22.37 dBm	+ 23.04 dBm
			+ 19.56 dBm	+ 18.42 dBm	+ 19.87 dBm
			See Graph	See Graph	See Graph
6	VSWR: (Input/Output)	2.0:1 Max. In 2.5:1 Max. Out	1.77 :1 (In)	1.9 :1 (In)	1.86 :1 (In)
			1.85 :1 (Out)	1.95 :1 (Out)	1.81 :1 (Out)
			See Graph	See Graph	See Graph
8	Input Power Max:	+17 dBm CW Max.	Pass See Graph	Pass See Graph	Pass See Graph
9	DC Supply:	+12 to +15 VDC @ 600 mA Typ.	+12 to +15 VDC @ 586 mA	+12 to +15 VDC @ 541 mA	+12 to +15 VDC @ 598 mA

*Up to 26.5 GHz

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