

**SUMMARY TEST DATA
ON
PEC-30-10M20-SFF**

Customer:

Tested By: Justen Gayduchik

SO No:

Temperature: +25° C

Model No: PEC-30-10M20-SFF

Date: 3/11/2025

Serial No: PL51719/2511

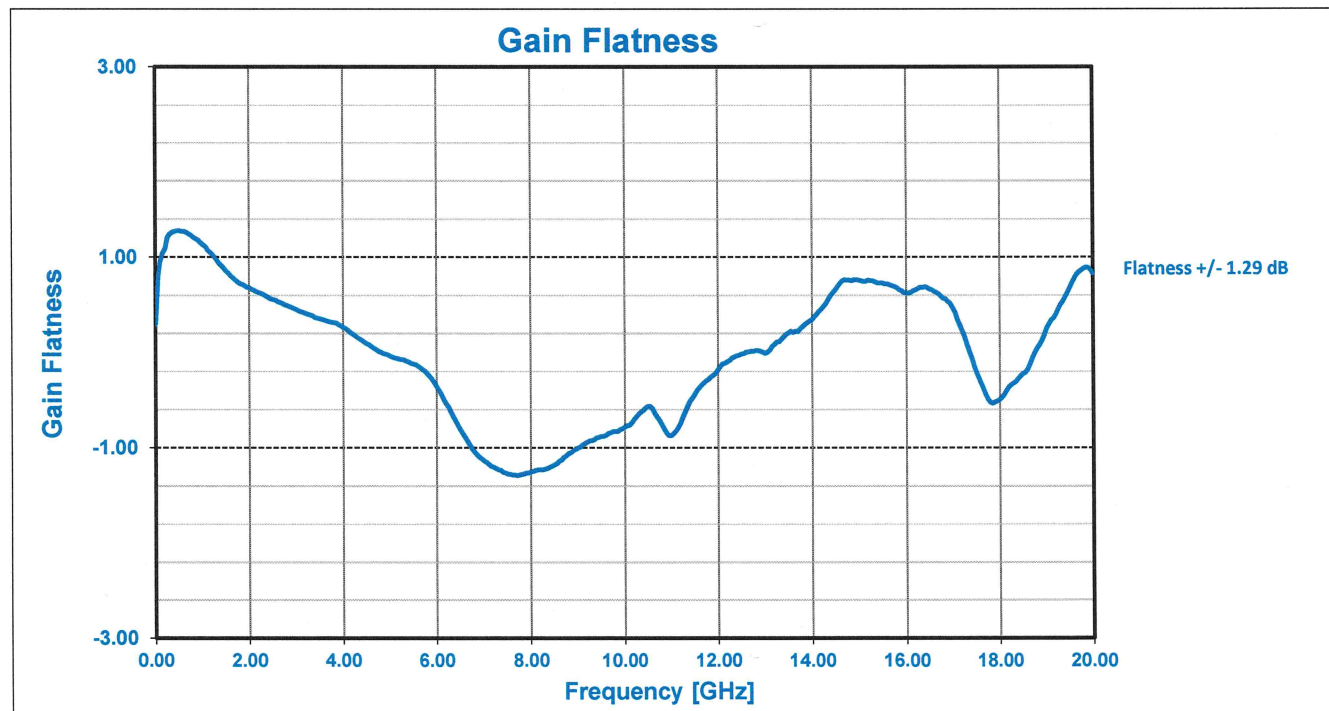
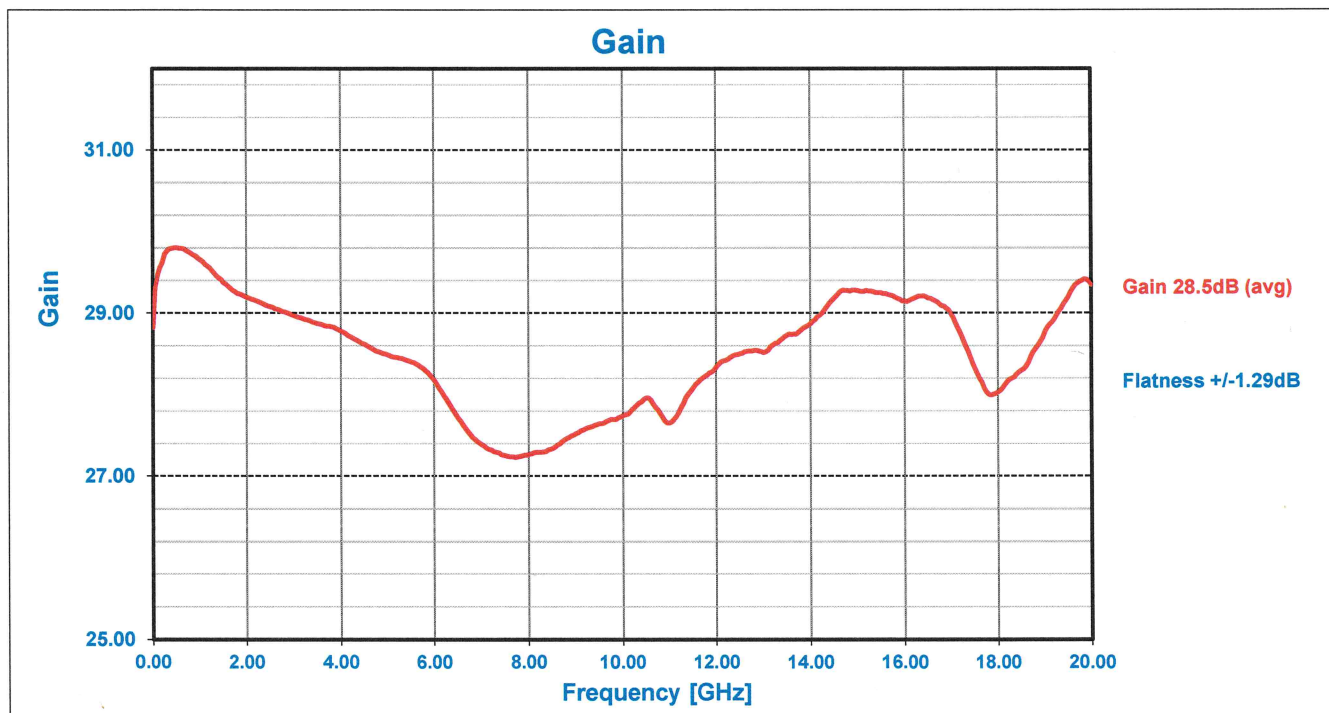
Drawing No: 27644480 REV: A4

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Frequency Range:	10 MHz to 20.0 GHz	10 MHz to 20.0 GHz	PMI QA3
2	Gain:	26 dB Min. (10 MHz to 18 GHz) 28 dB Min. (18 GHz to 20 GHz)	27.22 dB Min 28.02 dB Min See Plot	/
3	Gain Flatness:	±2 dB MAX. (10 MHz to 18 GHz) ±2.5 dB Typ., ±2.75 dB Max. (18 GHz to 20 GHz)	±1.29 dB ±0.69 dB See Plot	
4	Noise Figure:	4.5 dB Max. (20 MHz to 0.5 GHz) 3.5 dB Max. (0.5 GHz to 18 GHz) 4.0 dB Max. (18 GHz to 20 GHz)	2.0 dB 2.7 dB 3.3 dB See Plot	
5	OP1dB:	+13.5 dBm Min. (10 MHz to 18 GHz) +12 dBm Min. (18 GHz to 20 GHz)	+16.8 dBm +16.4 dBm See Plot	
7	VSWR Input	2:1 Max. (10 MHz to 18 GHz) 2.2:1 Max. (18 GHz to 20 GHz)	1.91:1 / 1.83:1 See Plot	
8	VSWR Output:	2.1:1 Max. (10 MHz to 18 GHz) 2.4:1 Max. (18 GHz to 20 GHz)	2.0:1 / 1.69:1 See Plot	
9	DC Supply:	+12 to +15 VDC @ 170 mA MAX.	141.6 mA	

6	Psat	+15 dBm Min. (10 MHz to 18 GHz) +13 dBm Min. (18 GHz to 20 GHz)	+17.6 dBm +16.9 dBm See Plot	
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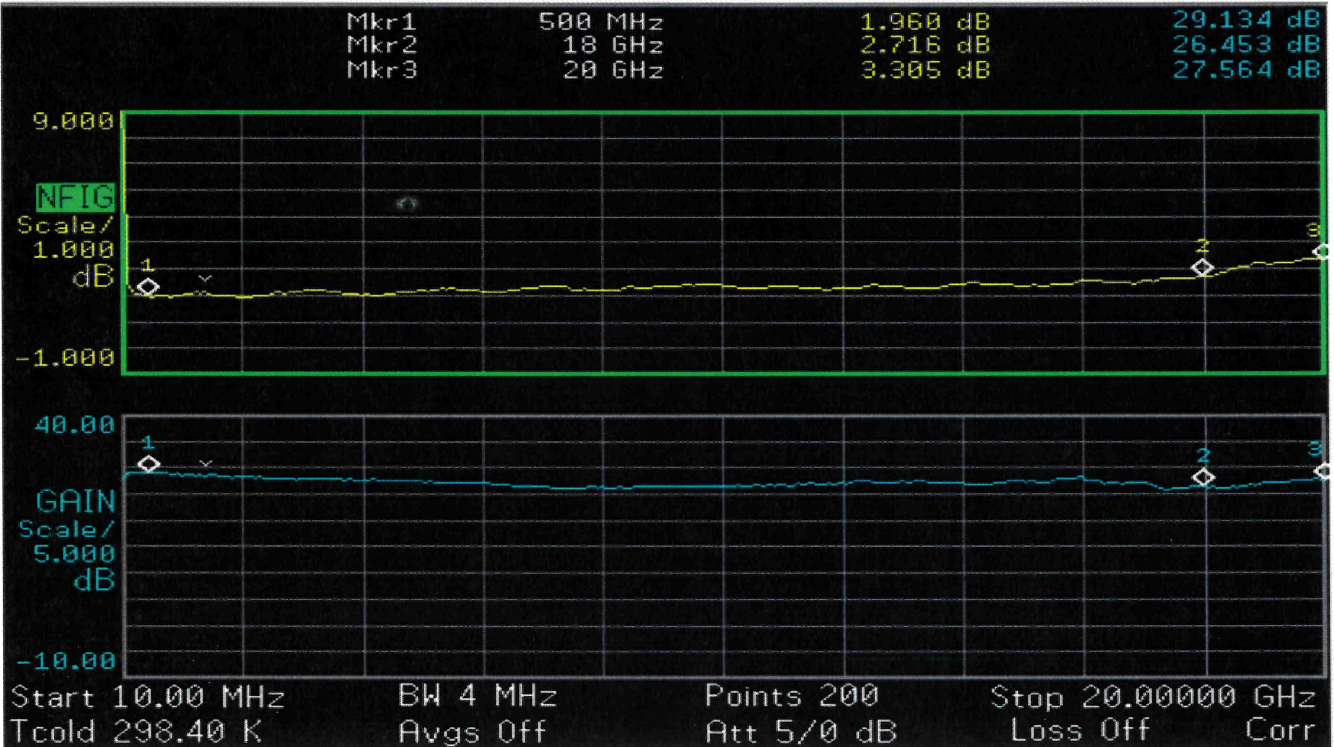
QA/QC Approval: K. Klammer

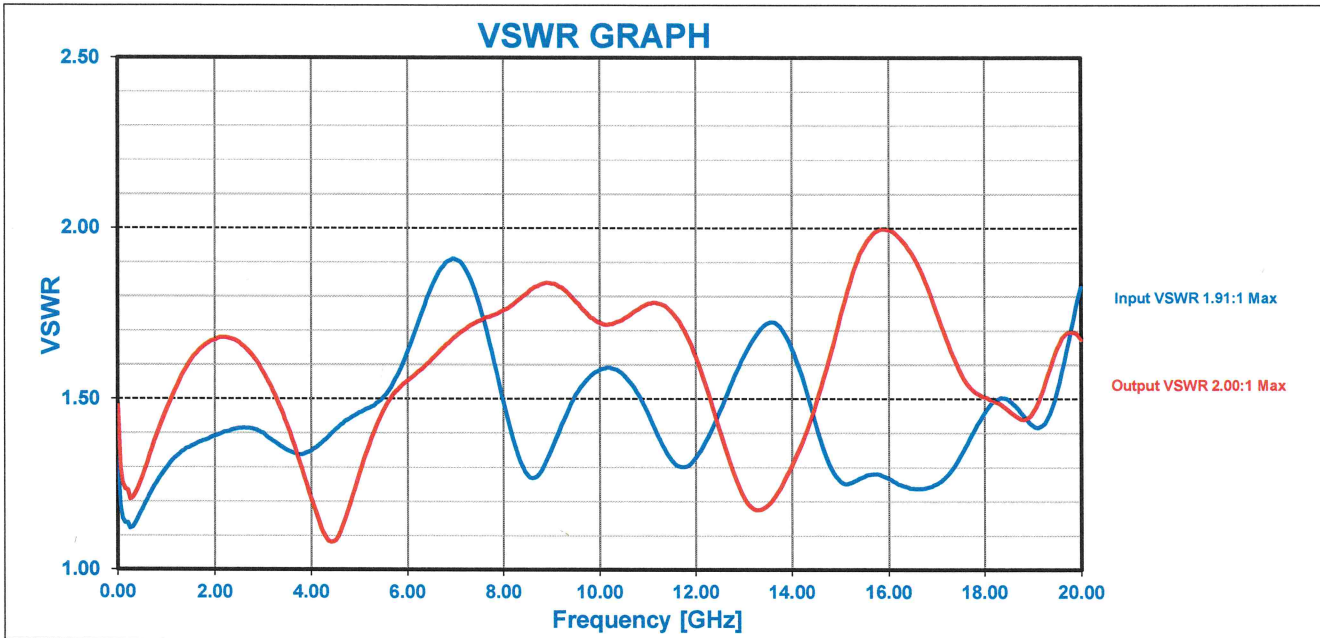
Date: 3-18-25



Agilent 10:16:20 Mar 14, 2025

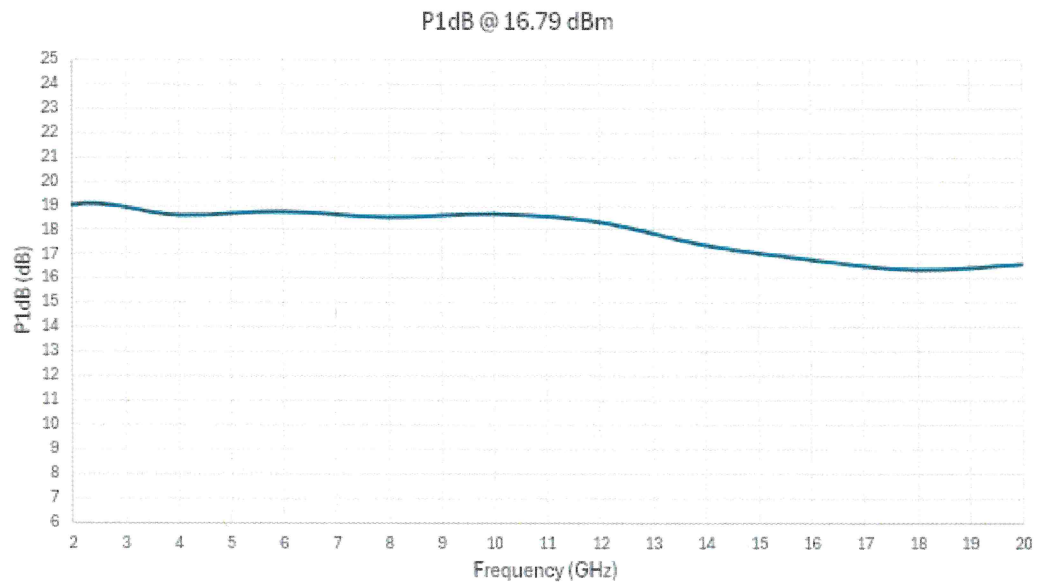
Noise Figure 10MHz to 20GHz





Freq	P1dB	Psat
GHz	dBm	dBm
0.01	17.14	18.40
2	19.03	19.58
4	18.60	19.44
6	18.75	19.23
8	18.51	19.40
10	18.66	19.18
12	18.32	18.83
14	17.39	17.91
16	16.79	17.63
18	16.38	16.8825
20	16.60	17.6012

P1dB @ 16.79 dBm



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P_{sat} @ 17.63 dBm

