Quantic PMI
PLANAR MONOLITHICS

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

Customer: [redacted]
SO No: [redacted]
Model No: PEC-30-10M20-SFF
Serial No: PL52440/2516

Tested By: Justen Gayduchik
Temperature: +25° C
Date: 4/14/2025
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)	**26.70 dB Min** **28.33 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** **±0.74 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** **2.9 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)	**17.2 dBm** **17.2 dBm** **See Plot**	
7	VSWR Input	2:1 Max. (10 MHz to 18 GHz) 2.2:1 Max. (18 GHz to 20 GHz)	**1.99:1 / 1.73:1** **See Plot**	
8	VSWR Output:	2.1:1 Max. (10 MHz to 18 GHz) 2.4:1 Max. (18 GHz to 20 GHz)	**2.05:1 / 1.94:1** **See Plot**	
9	DC Supply:	+12 to +15 VDC @ 170 mA MAX.	**153.8 mA**	

6	Psat	+15 dBm Min. (10 MHz to 18 GHz) +13 dBm Min. (18 GHz to 20 GHz)	**18.1 dBm** **17.8 dBm** **See Plot**	

QA/QC Approval: K. Klamm **Date:** 4-15-25

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Email: sales@pmi-rf.com

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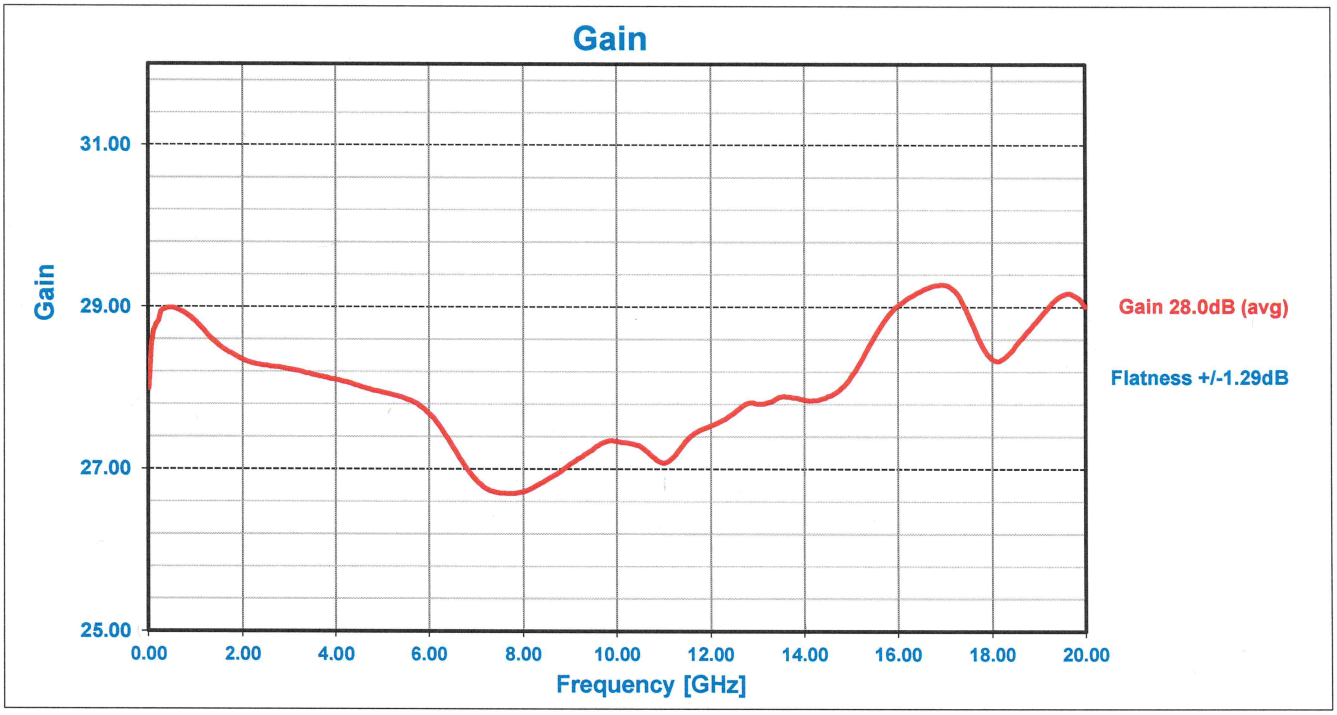

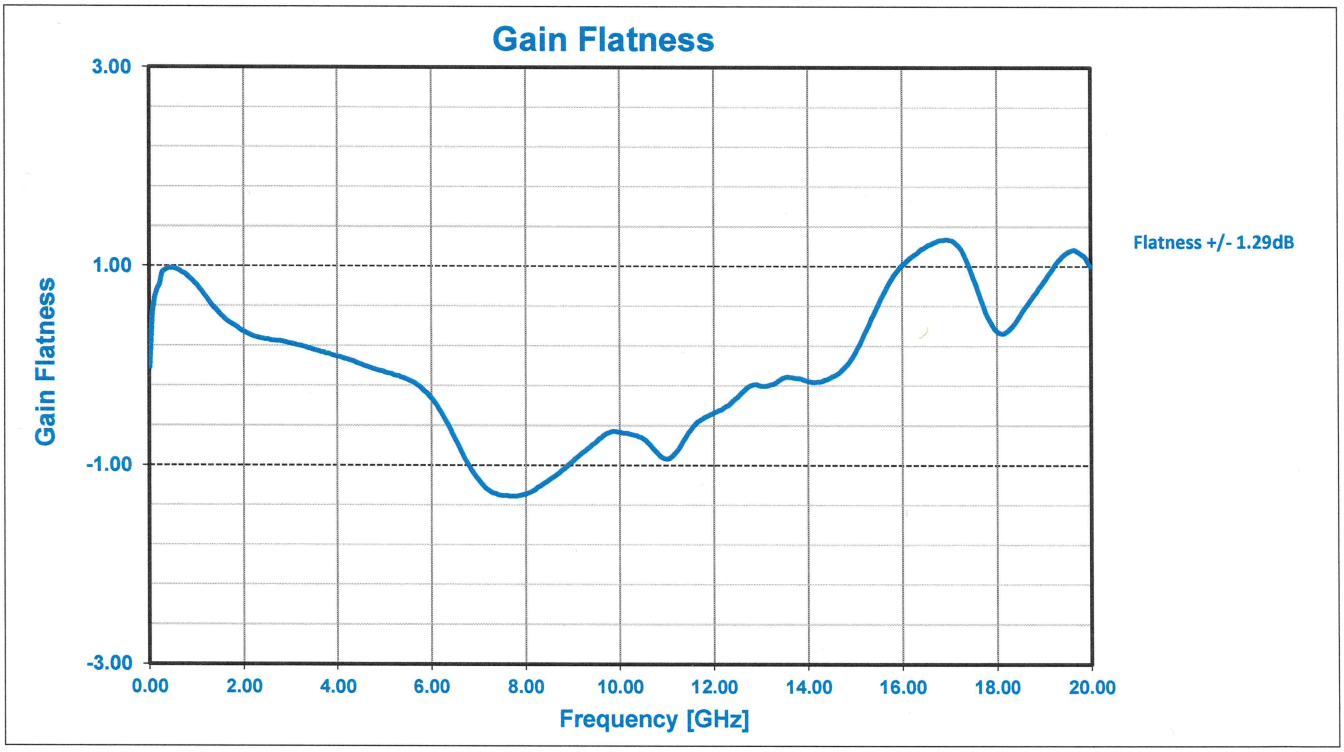

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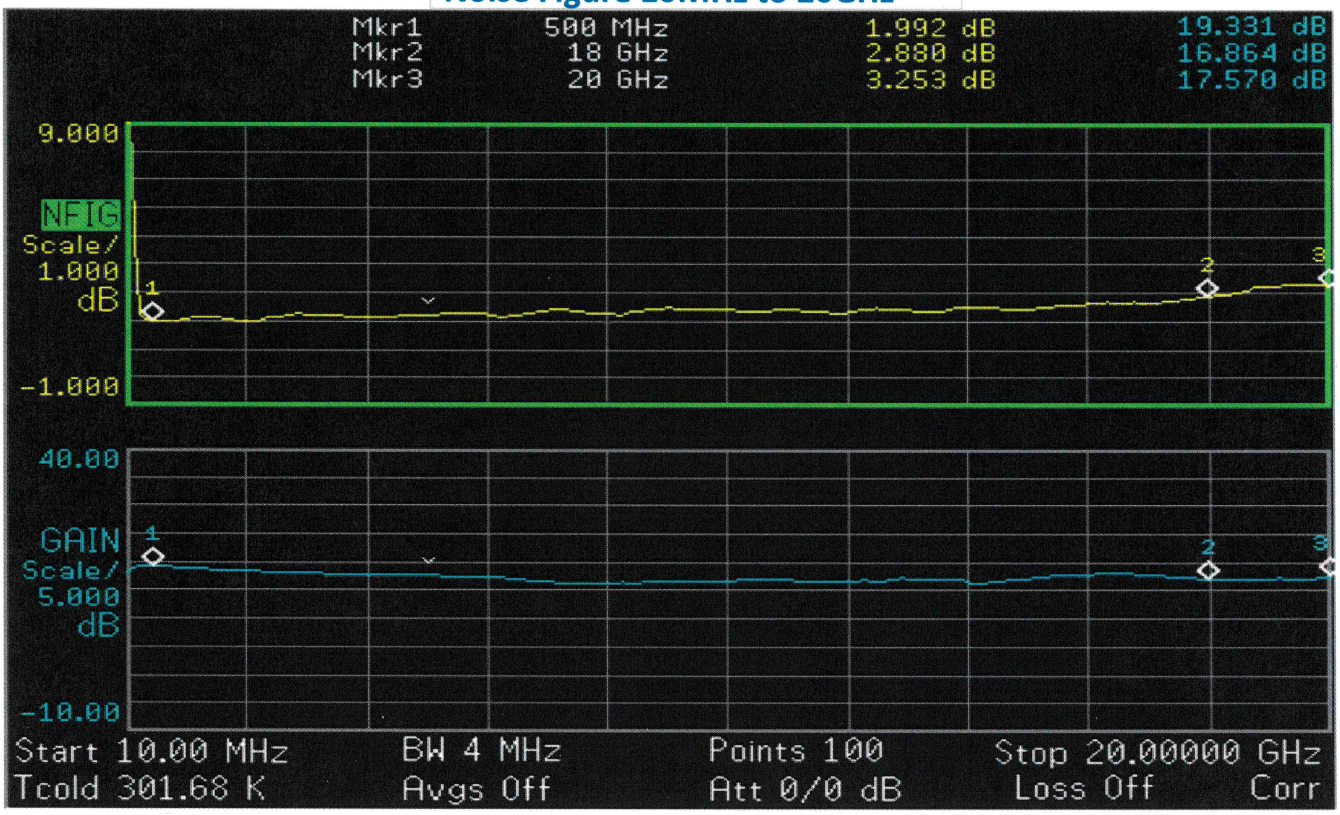
Noise Figure 10MHz to 20GHz



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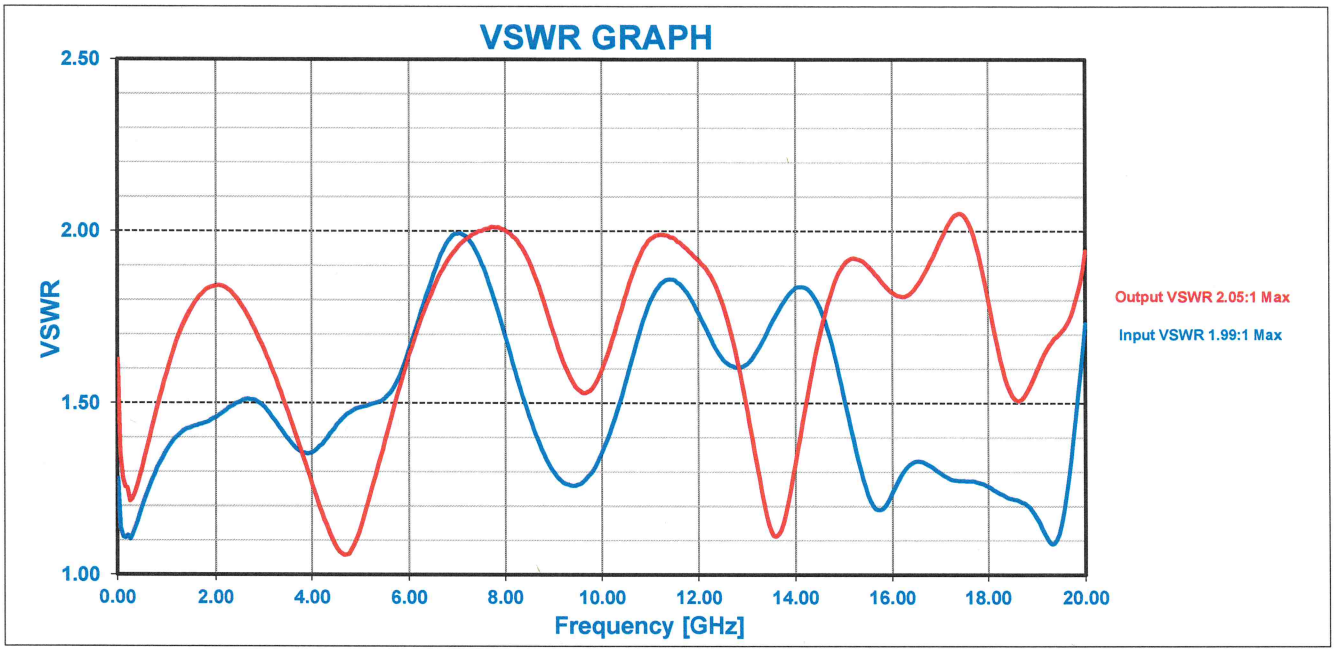
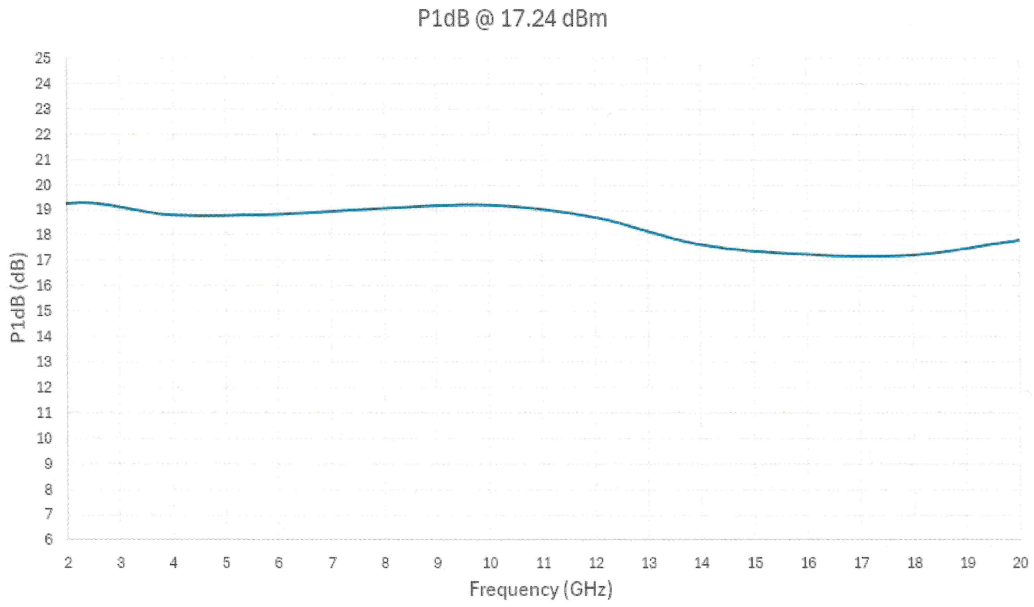


Freq	P1dB	Psat
GHz	dBm	dBm
0.01	17.63	18.51
2	19.25	20.08
4	18.80	19.80
6	18.84	19.69
8	19.08	19.94
10	19.22	19.73
12	18.72	19.25
14	17.63	18.59
16	17.24	18.11
18	17.21	17.7709
20	17.80	18.4513

P1dB @ 17.24 dBm



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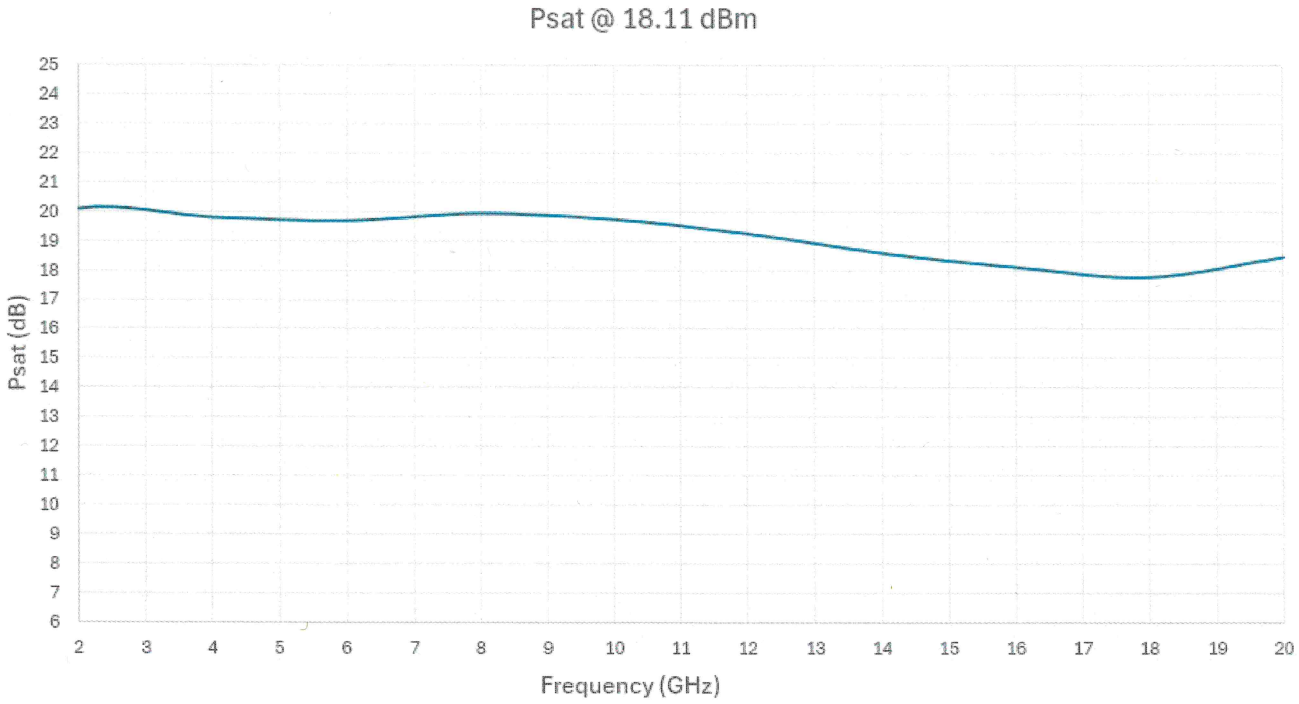

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