SUMMARY TEST DATA
ON
PLNA-30-10M20-292FF

Customer: [redacted]
SO No: [redacted]
Model No: PLNA-30-10M20-292FF
Serial No: PL36478/2219

Tested By: K Craven
Temperature: +25° C
Date: 5/3/2022
Drawing No: 27641260 Rev: A1

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results	QA QC
1	Frequency Range:	10MHz to 20GHz	10MHz to 20GHz	PMI QA 2
2	Gain:	+26 dB Min. (10 MHz to 18 GHz)	30.38 dB Max.	
			26.7 dB Min.	
		+28 Min. (18 to 20 GHz)	30.97 dB Max.	
			28.07 dB Min.	
			See Graphs	
3	Gain Flatness:	±2 dB Typ. (10MHz to 18 GHz) ±2.5 dB Typ. (10MHz to 20 GHz)	1.84 dB (±)	
			1.45 dB (±)	
			See Graphs	
4	Noise Figure:	3 dB Typ. (20MHz - 0.5GHz) 2.5 dB Typ. (0.5 to 18GHz) 3.3 dB Typ. (18 to 20 GHz) See Note	4.93 dB	
			2.67 dB	
			3.06 dB	
			See Graphs	
5	OP1dB:	+14 dBm Typ.(10 MHz to 18 GHz) +13 dB Typ. (18 to 22 GHz)	14.25 dBm	
			13.89 dBm	
			See Graphs	
6	Psat:	+15 dBm Typ. (10 MHz to 18 Ghz) +14 dBm Typ. (18 to 20 GHz)	14.85 dBm	
			14.85 dBm	
			See Graphs	
7	OIP3	+25 dBm Typ. (10MHz to 18 GHz) +23 dBm Typ. (18 to 20 GHz)	Pass See Typical Characteristics	
8	Second Harmonic:	Second harmonic -30dBm Input Power 70 dBc Typ. Second harmonic at P1dB 12 dBc Typ. Second harmonic at +5dBm Over P1dB 12 dBc Typ. Second harmonic at +10dBm Over P1dB 12 dBc Typ. Second harmonic at +15dBm Over P1dB 12 dBc Typ.	Pass See Typical Characteristics	
9	VSWR Input:	2.0:1 Max. (10MHz to 18GHz) 2.2:1 Typ. (18GHz to 20GHz)	1.99 :1	
			2.01 :1	
			See Graphs	
10	VSWR Output:	2.1:1 Max. (10MHz to 18GHz) 2.4:1 Typ. (18GHz to 20GHz)	2.09 :1	
			2.61 :1	
			See Graphs	
11	Reverse Isolation:	36 dB Min. (10 MHz to 18 Ghz) 35 dB Min. (18 to 20 GHz)	36.45 dB	
			35.86 dB	
			See Graphs	
12	DC Supply:	+5 VDC @ 120 mA Typ.	+5 VDC @ 120 mA	PMI QA 2

Note: Noise figure only valid above 20 MHz

QA/QC Approval: [signature] PMI QA 2 Date: 5/5/2022

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731
Email: sales@pmi-rf.com

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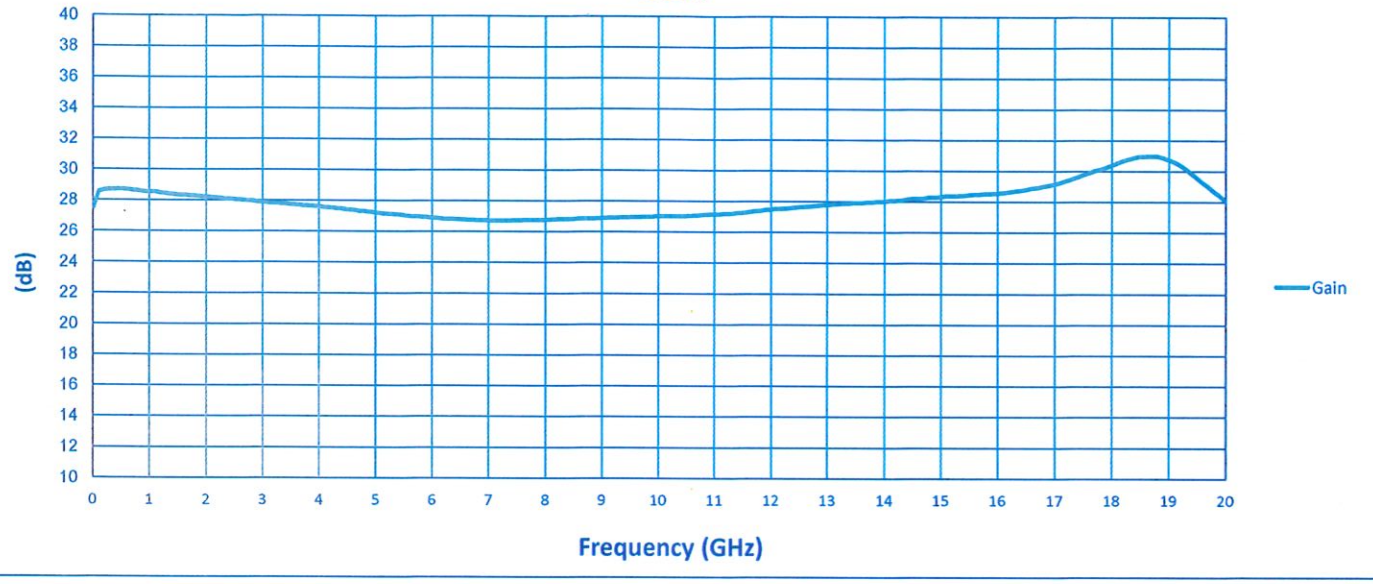
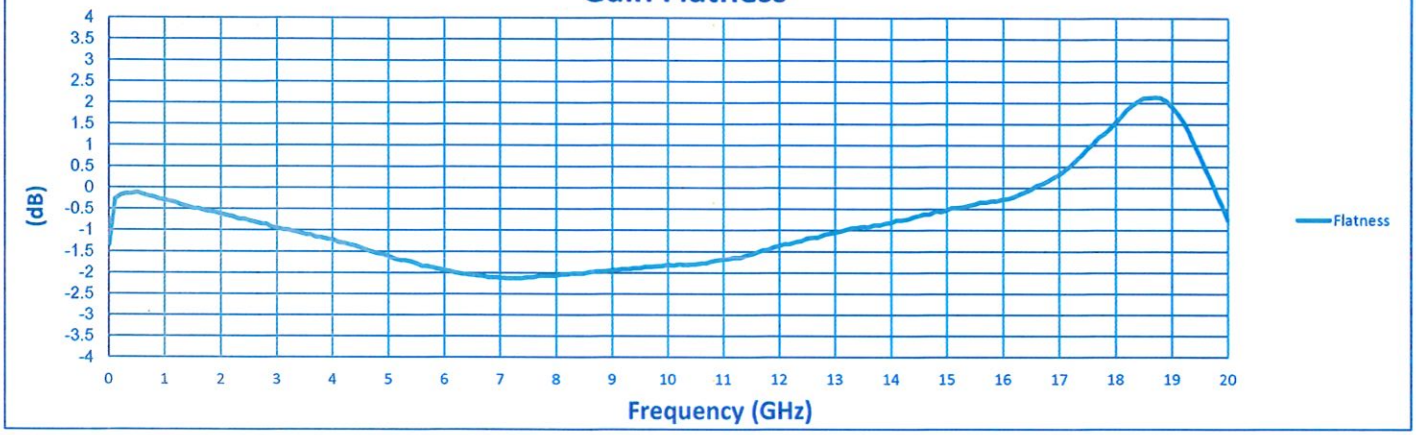
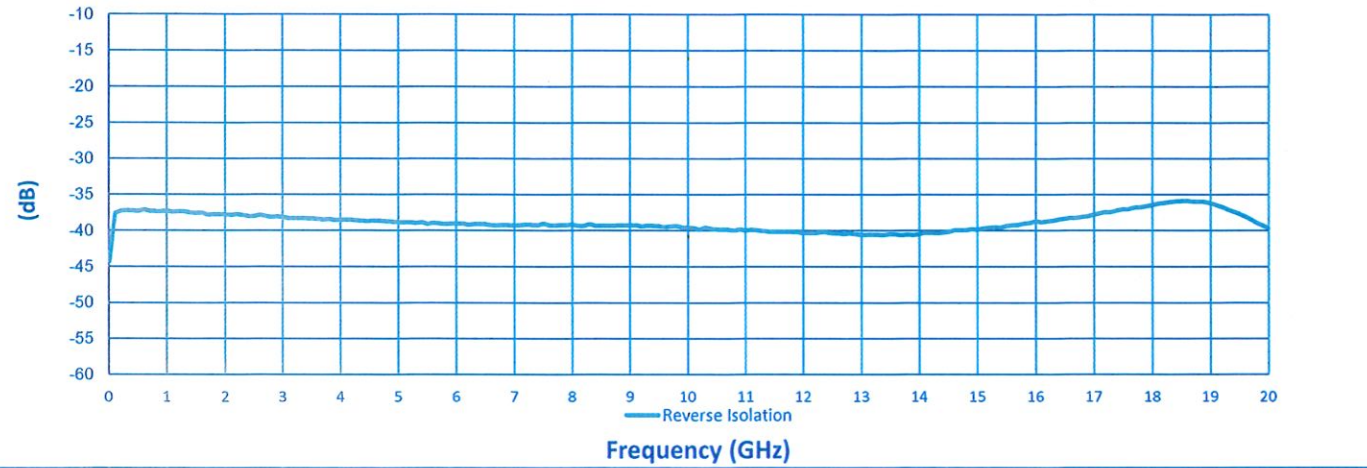
Gain



Gain Flatness



Reverse Isolation



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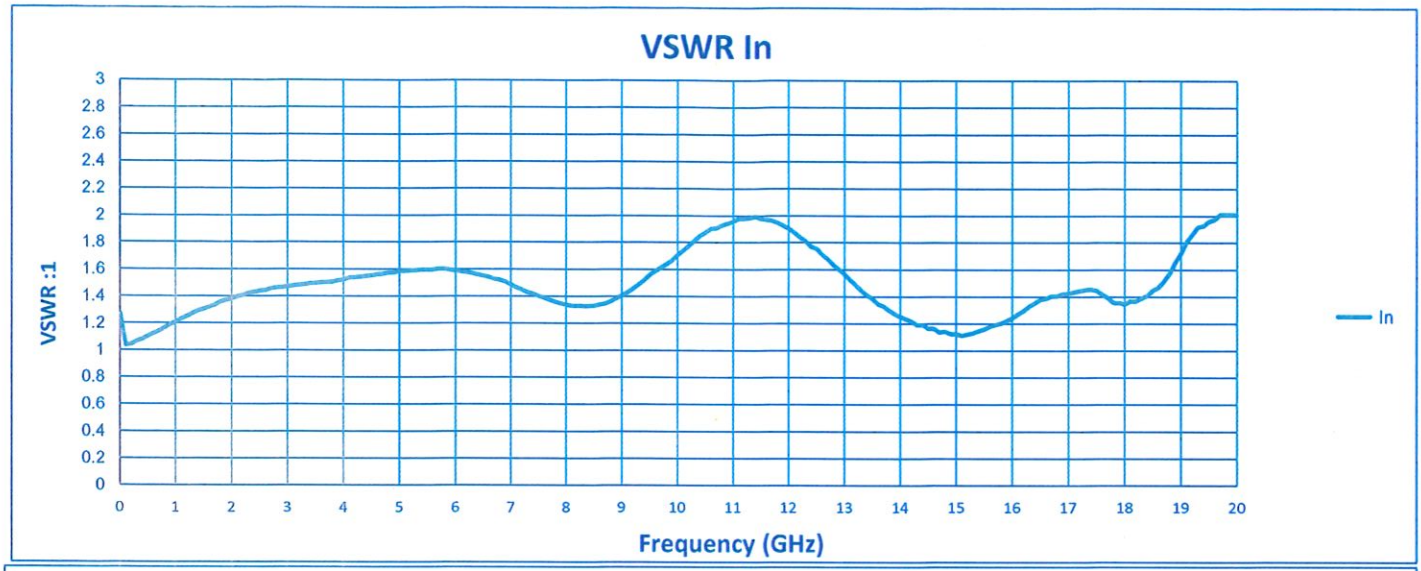

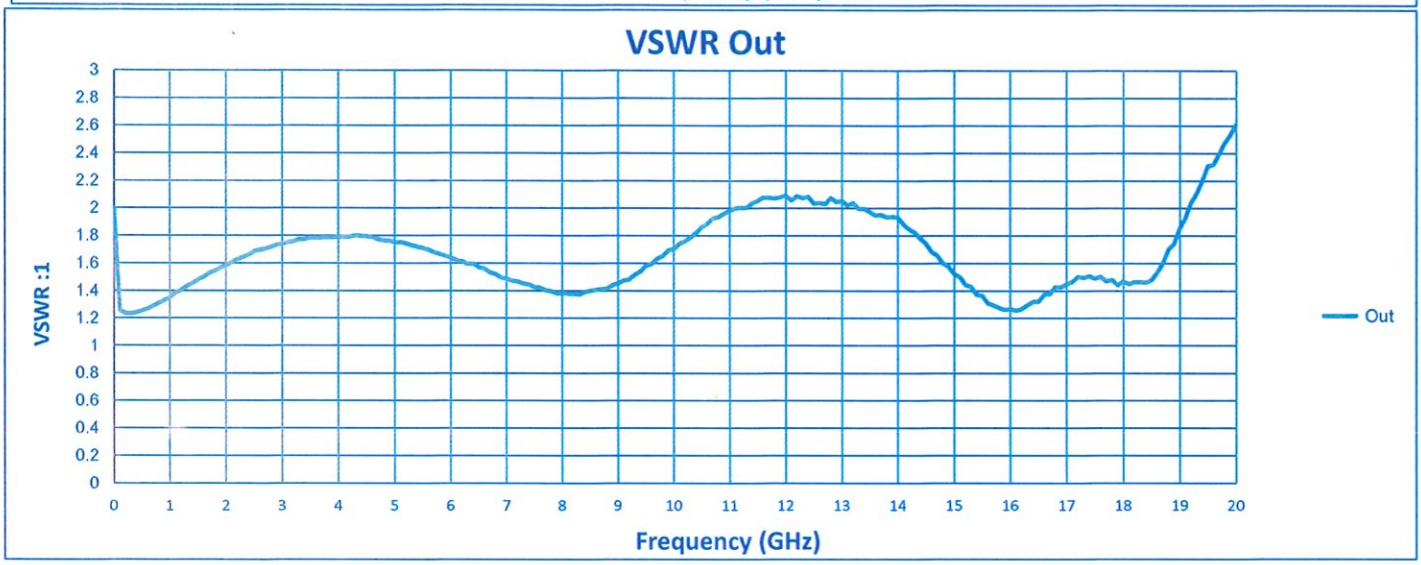

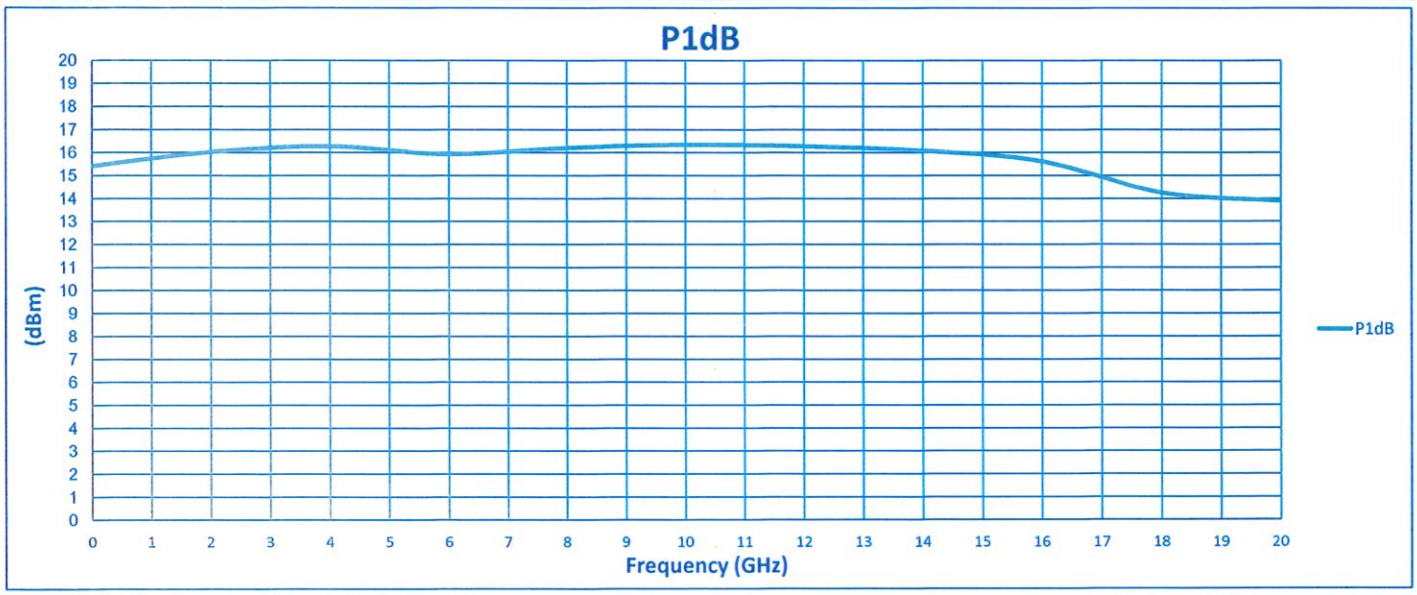

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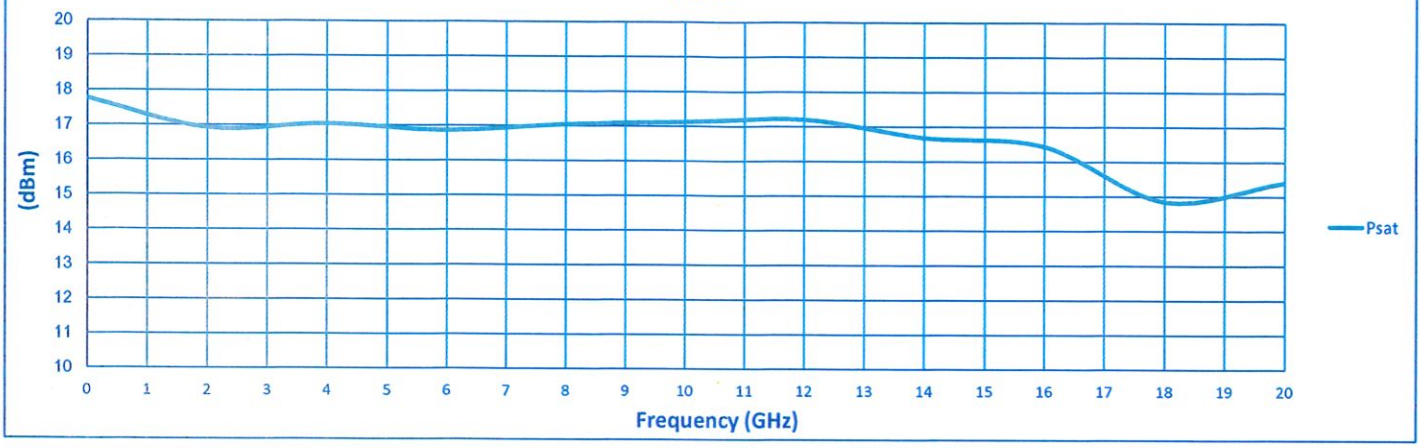
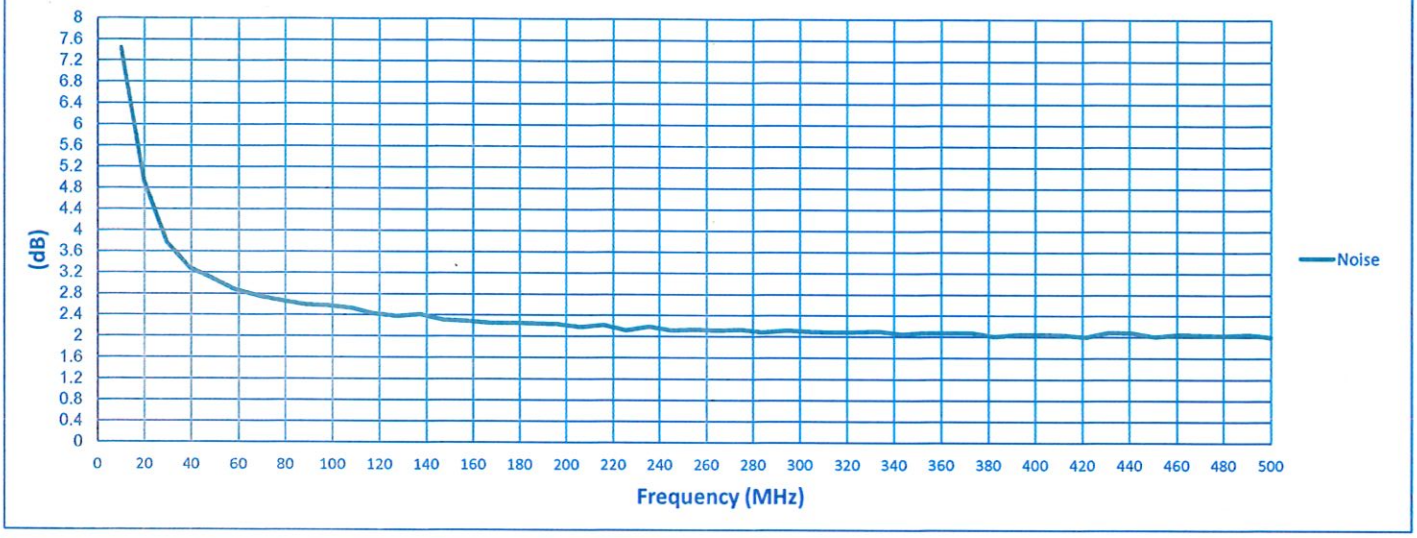
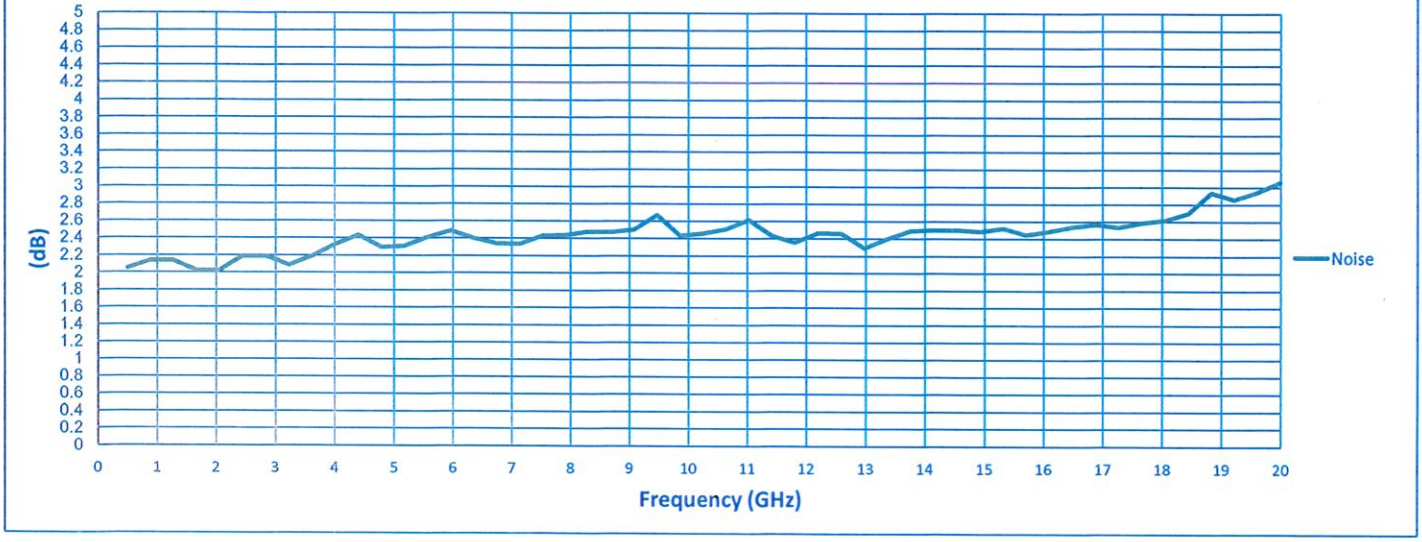
Psat



Noise Figure 20MHz to 0.5 GHz



Noise Figure 0.5 to 20 GHz



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