



## SUMMARY TEST DATA ON PE2-26-2G18G-5-21-12-SFF-DP

PL32037/2116

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: PE2-26-2G18G-5-21-12-SFF-DP  
 Serial No: PL32037/2116

Tested By: EA Valdez  
 Temperature: -55°C, +25°C, +85°C  
 Date: 04/28/2021  
 Drawing No: 27633170 Rev: B2

TEST ITEM	PARAMETERS	SPECIFIED VALUE	RESULTS			PASS/FAIL	QA QC
			-55°C	+25°C	+85°C		
1	Frequency Range	2.0 to 18.0 GHz	2.0 to 18.0 GHz			Pass	PMI QA3
2	Nominal Gain*	26 dB	26.2 dB	25.9 dB	25.5 dB	Pass	
3	Gain Window	±4.0 dB (22 dB Min / 30 dB Max) (Relative to Nominal Gain)	Pass	Pass	Pass	Pass	
4	Gain Flatness*	±1.5 dB (Relative to Nominal Gain)	±0.5 dB	±0.8 dB	±0.6 dB	Pass	
5	Noise Figure <sup>2</sup>	5.0 dB Max	3.3 dB	4.0 dB	4.0 dB	Pass	
6	OP1dB <sup>2</sup>	+21 dBm Min +25 dBm Goal	24.2 dBm	23.8 dBm	23.1 dBm	Pass	
7	OIP2 <sup>3</sup>	+37 dBm Min	[Hatched]	44.8 dBm	[Hatched]	Pass	
8	OIP3 <sup>3</sup>	+30 dBm Min		35.6 dBm		Pass	
9	Input VSWR*	2.0:1 Max		1.4:1		Pass	
10	Output VSWR*	2.0:1 Max (2.0 to 15.0 GHz)	2.0:1	Pass			
		2.8:1 Max (15.0 to 18.0 GHz)	2.8:1	Pass			
11	DC Supply	+11 to +12.5 VDC @ 400 mA Goal, 450 mA Max	390 mA	420 mA	440 mA	Pass	PMI QA3

\* Gain and Gain Flatness shall be measured with 100 MHz steps (201 Points Minimum)

<sup>2</sup> Noise Figure and OP1dB shall be measured with 1 GHz steps

<sup>3</sup> OIP2 and OIP3 shall be measured with 2 GHz steps

QA/QC Approval: *A Zimmerman* Date: 4-29-2021

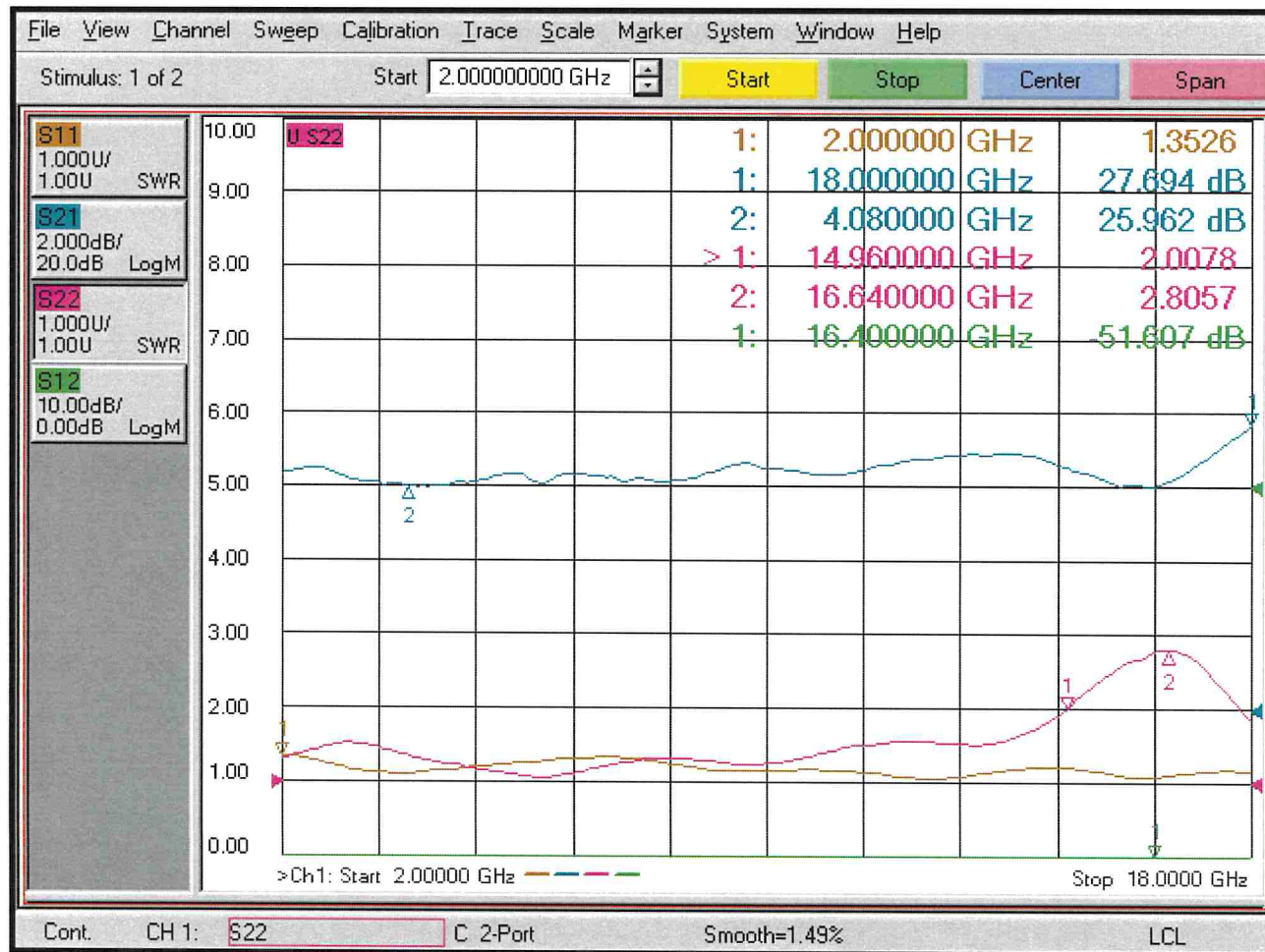
7311-F Grove Road, Frederick, MD 21704 USA  
 Phone: (301) 662-5019 Fax: (301) 662-1731  
 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



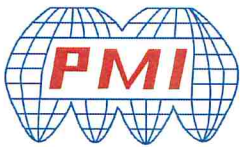
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## GAIN / VSWR @ +25C



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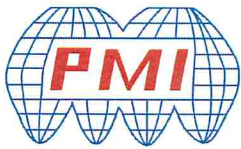


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## GAIN @ -55C

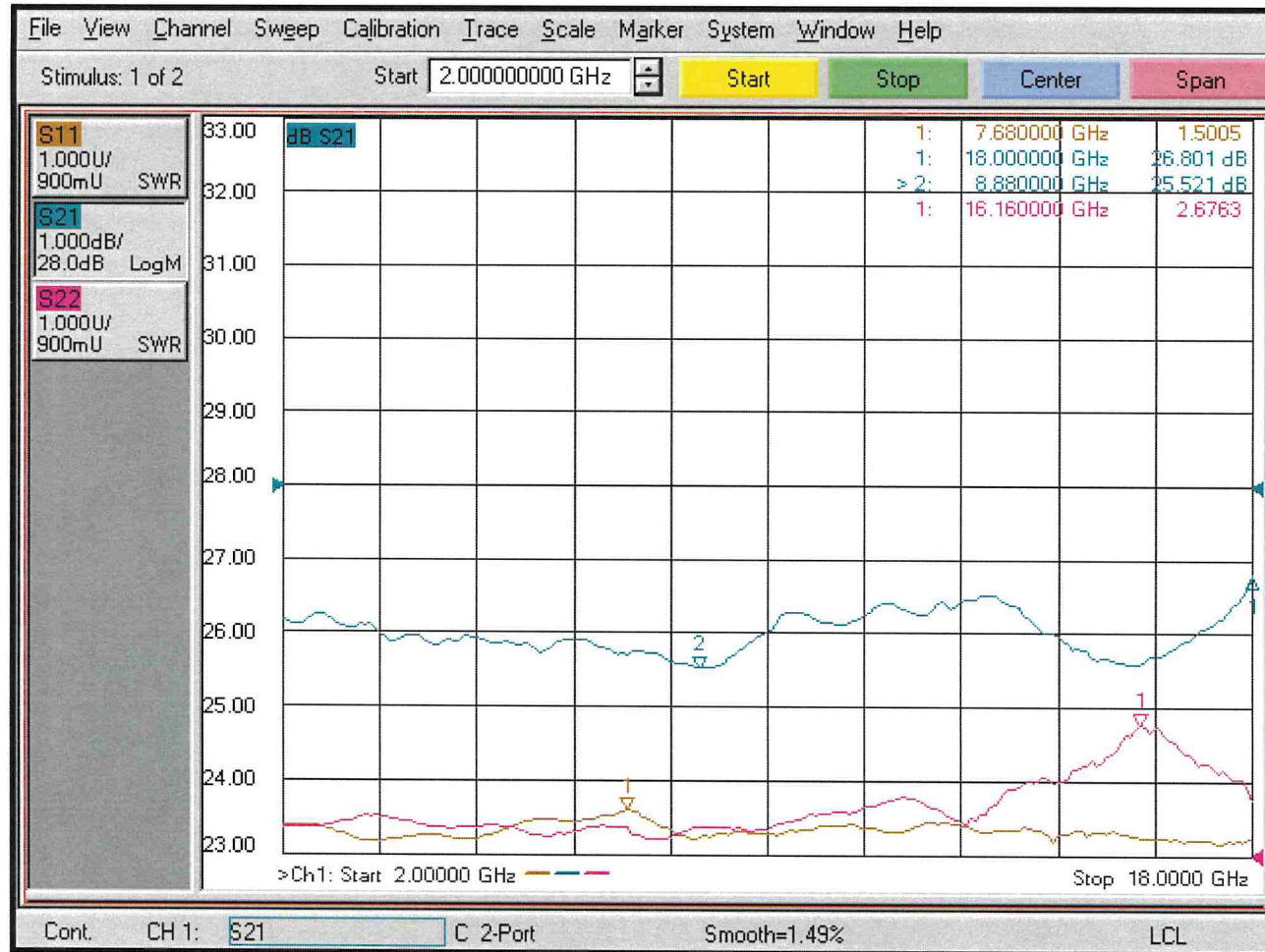




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## GAIN @ +85C



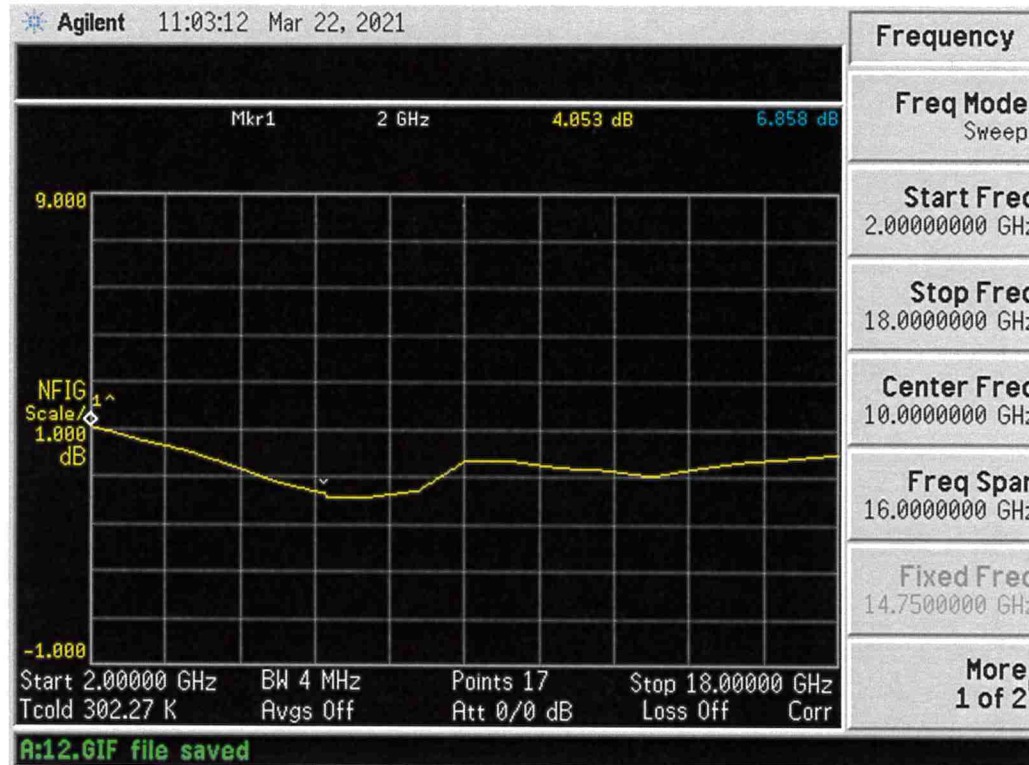
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## NOISE FIGURE @ +25C



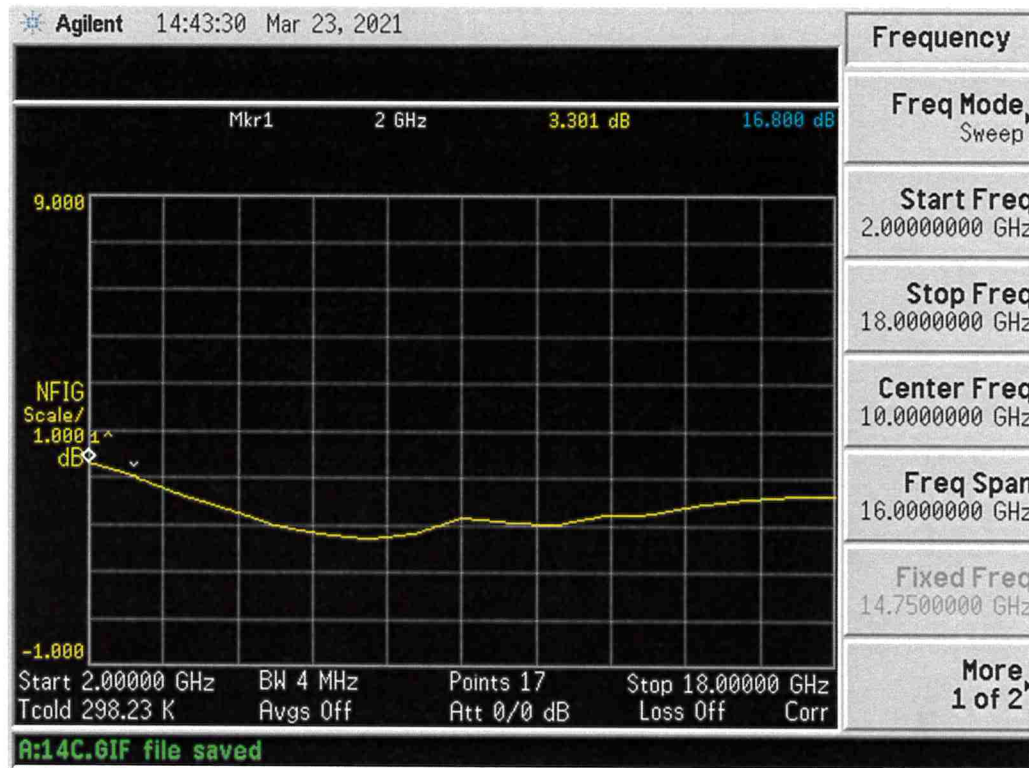
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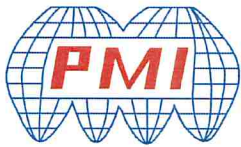
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## NOISE FIGURE @ -55C



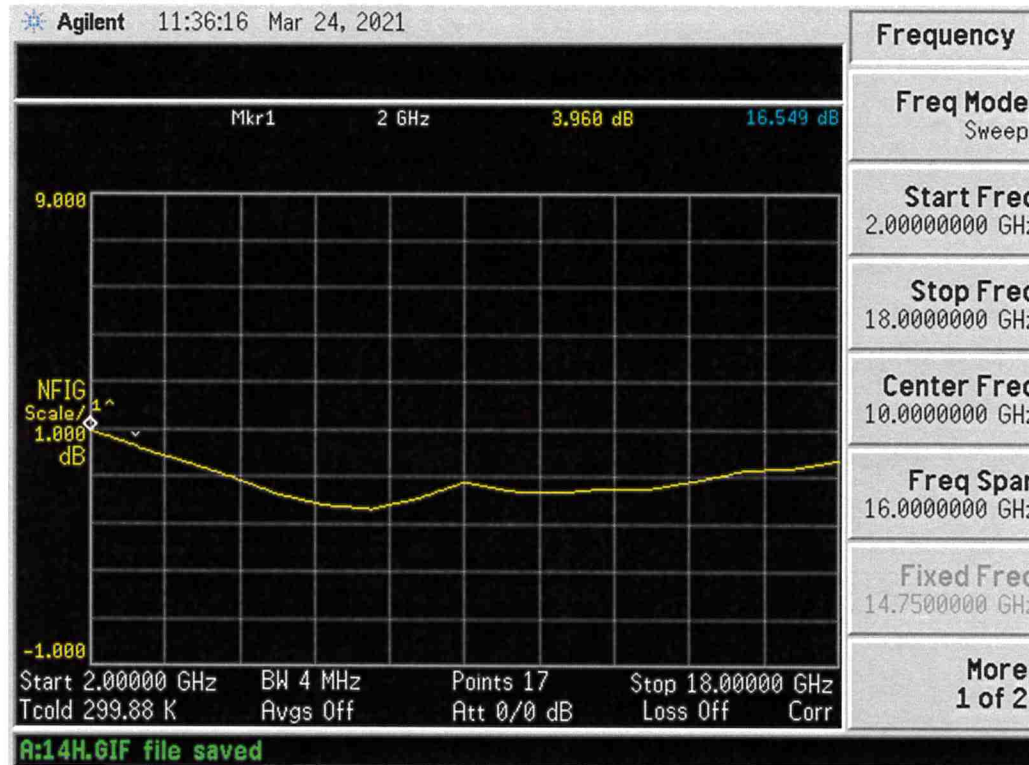
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## NOISE FIGURE @ +85C



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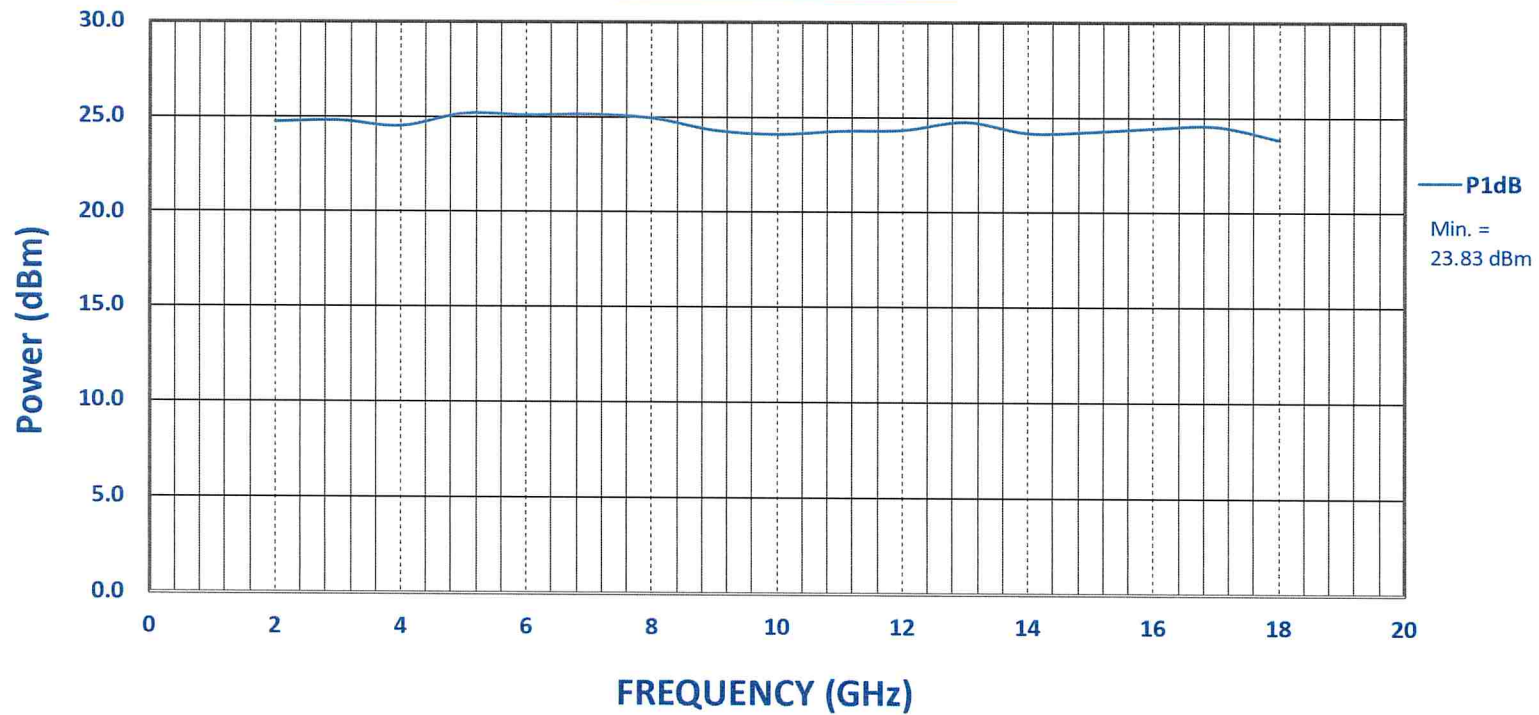


# SUMMARY TEST DATA ON PE2-26-2G18G-5-21-12-SFF-DP

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P1db @ +25C

### P1dB Vs Frequency



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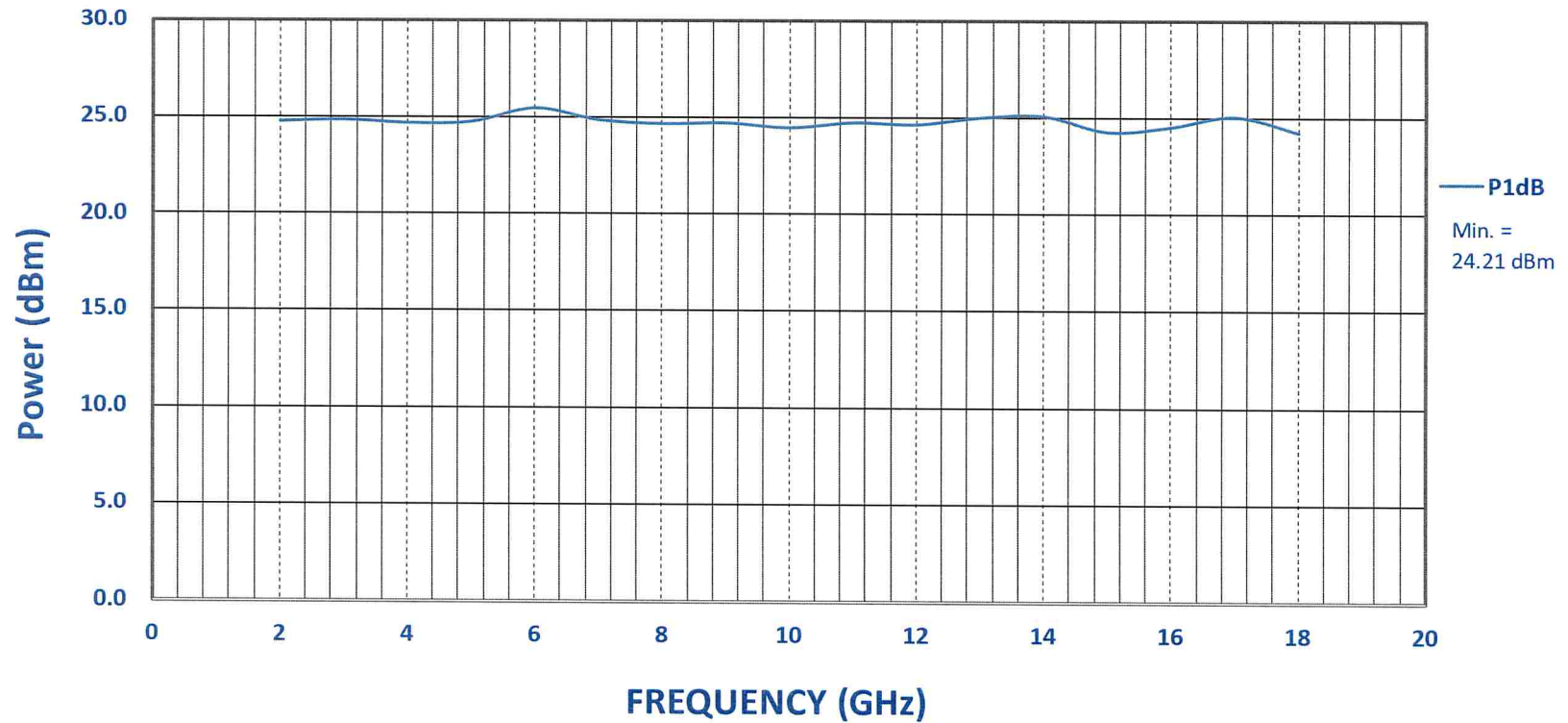


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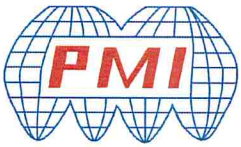
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P1db @ -55C

### P1dB Vs Frequency



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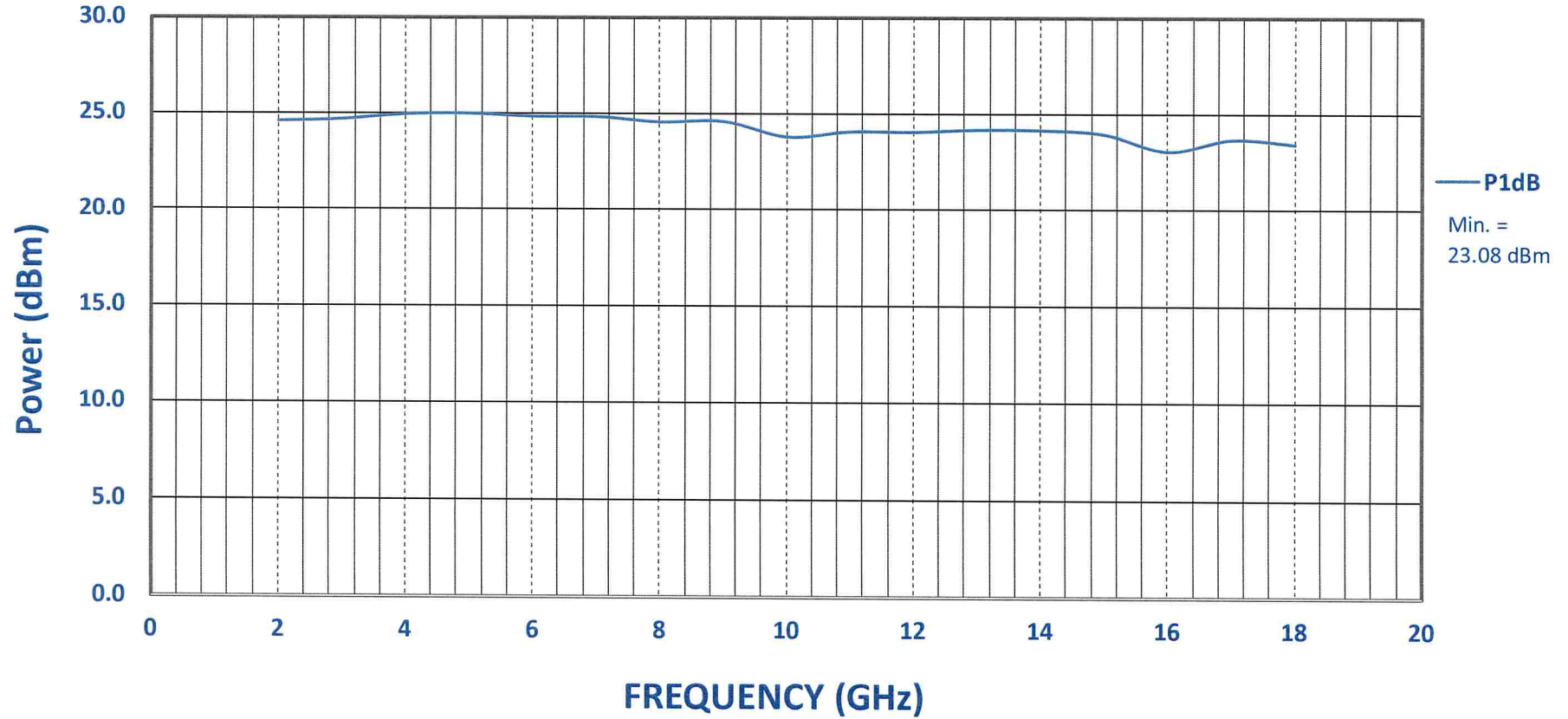


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P1db @ +85C

## P1dB Vs Frequency





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<u>Freq</u>	<u>IP3</u>	<u>IP2</u>
2000	43.07	70.33
4000	43.15	62.67
6000	42.54	64.17
8000	40.29	62.33
10000	39.895	52.5
12000	39.015	46.99
14000	36.85	44.83
16000	36.55	47.01
18000	35.56	49.67

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