



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

PL32026/2116

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: PE2-26-2G18G-5-21-12-SFF-DP  
 Serial No: PL32026/2116

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	26.3 dB	25.7 dB	25.2 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)	±0.6 dB	±0.5 dB	±0.6 dB	Pass	
5	Noise Figure <sup>2</sup>	5.0 dB Max	3.4 dB	4.2 dB	4.0 dB	Pass	
6	OP1dB <sup>2</sup>	+21 dBm Min +25 dBm Goal	23.3 dBm	23.5 dBm	22.5 dBm	Pass	
7	OIP2 <sup>3</sup>	+37 dBm Min	[REDACTED]	47.0 dBm	[REDACTED]	Pass	
8	OIP3 <sup>3</sup>	+30 dBm Min		35.7 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)		1.9:1		Pass	
		2.8:1 Max (15.0 to 18.0 GHz)	2.1:1	Pass			
11	DC Supply	+11 to +12.5 VDC @ 400 mA Goal, 450 mA Max	410 mA	420 mA	430 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: 4-29-21

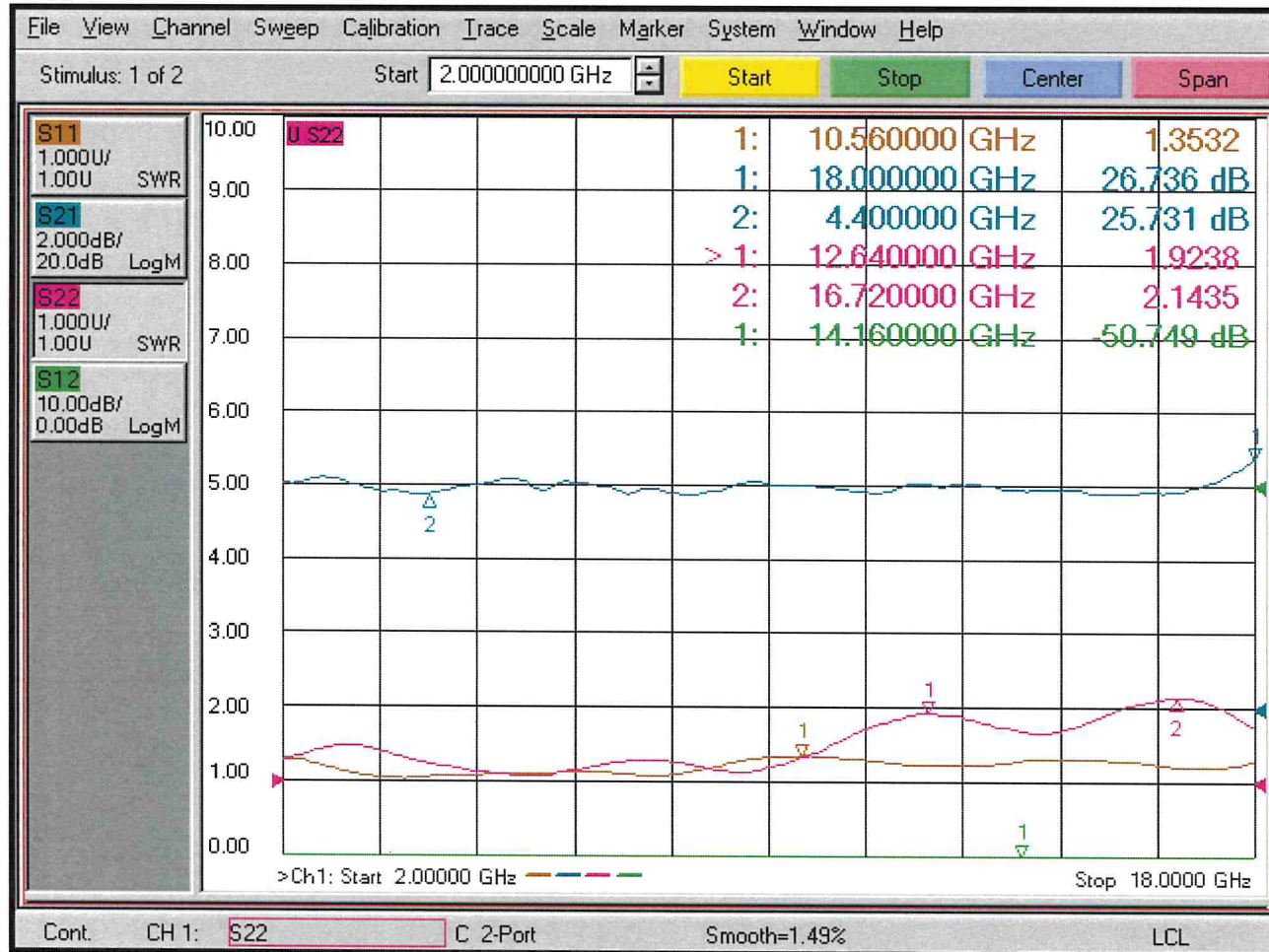
7311-F Grove Road, Frederick, MD 21704 USA  
 Phone: (301) 662-5019 Fax: (301) 662-1731  
 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



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## GAIN / VSWR @ +25C



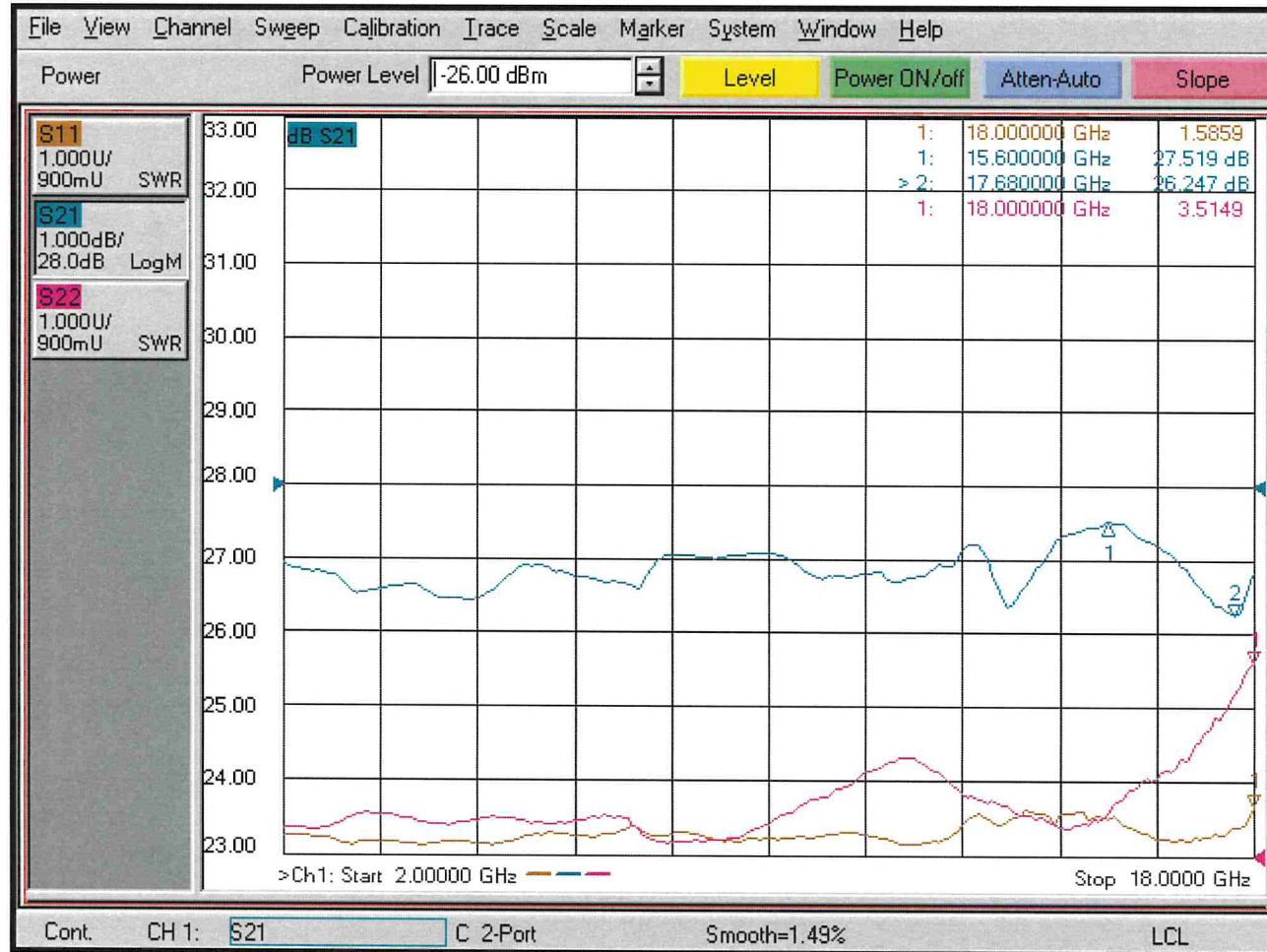
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## GAIN @ -55C



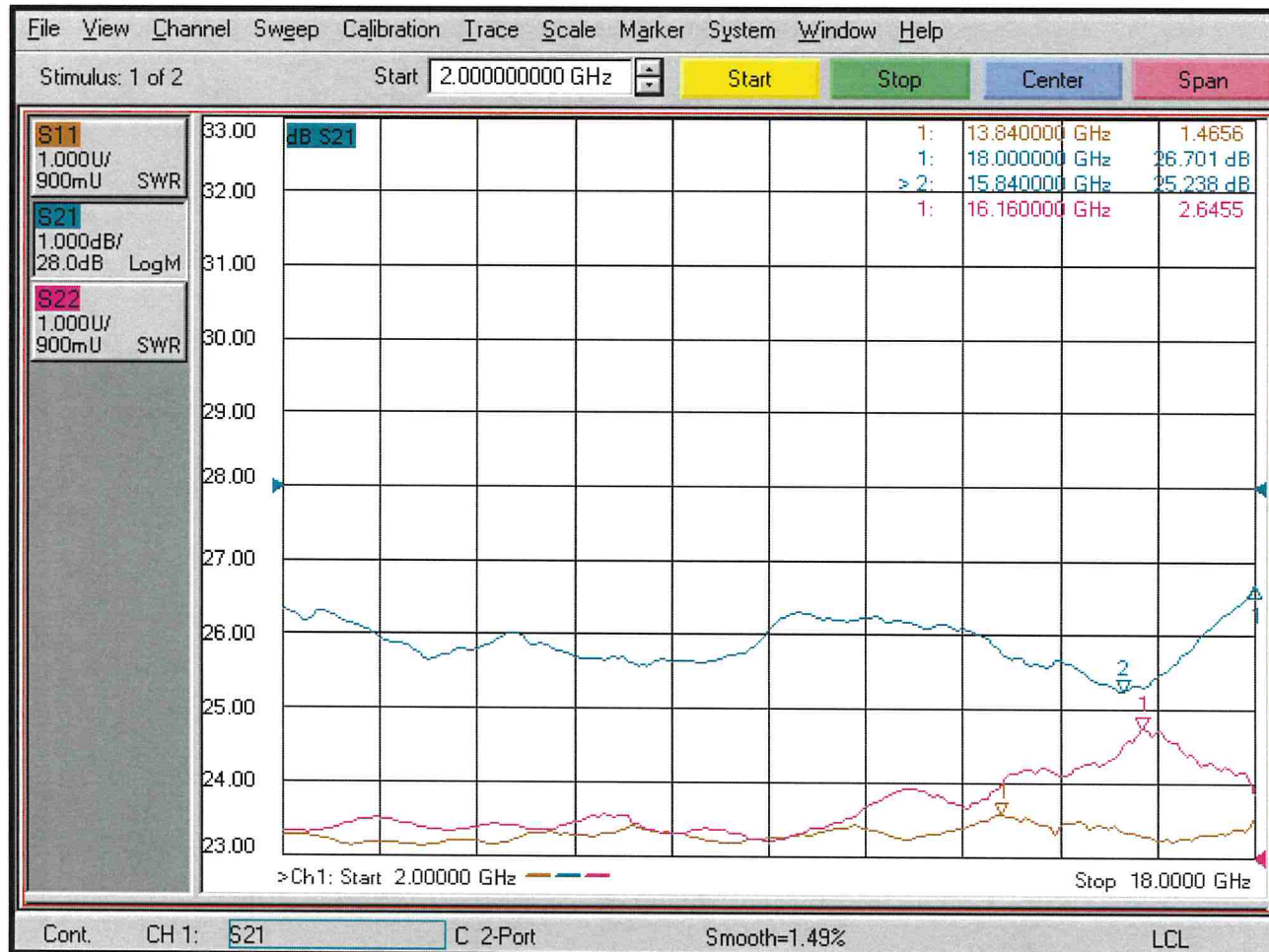
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## GAIN @ +85C



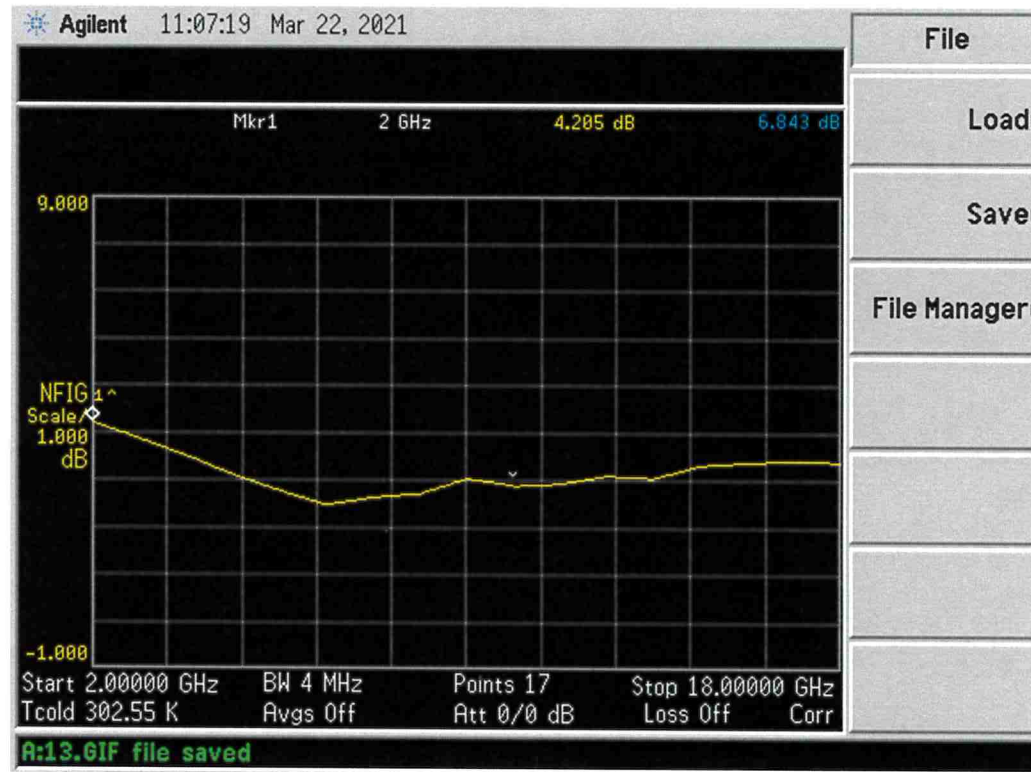
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PL32026/2116

## NOISE FIGURE @ +25C



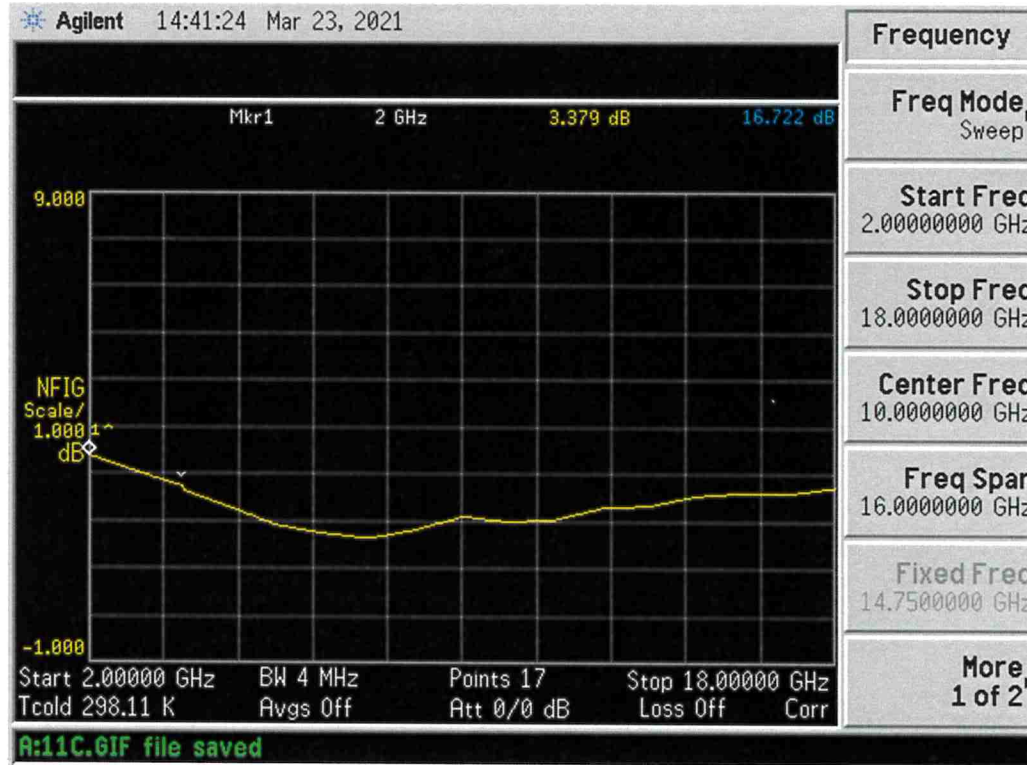
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## NOISE FIGURE @ -55C



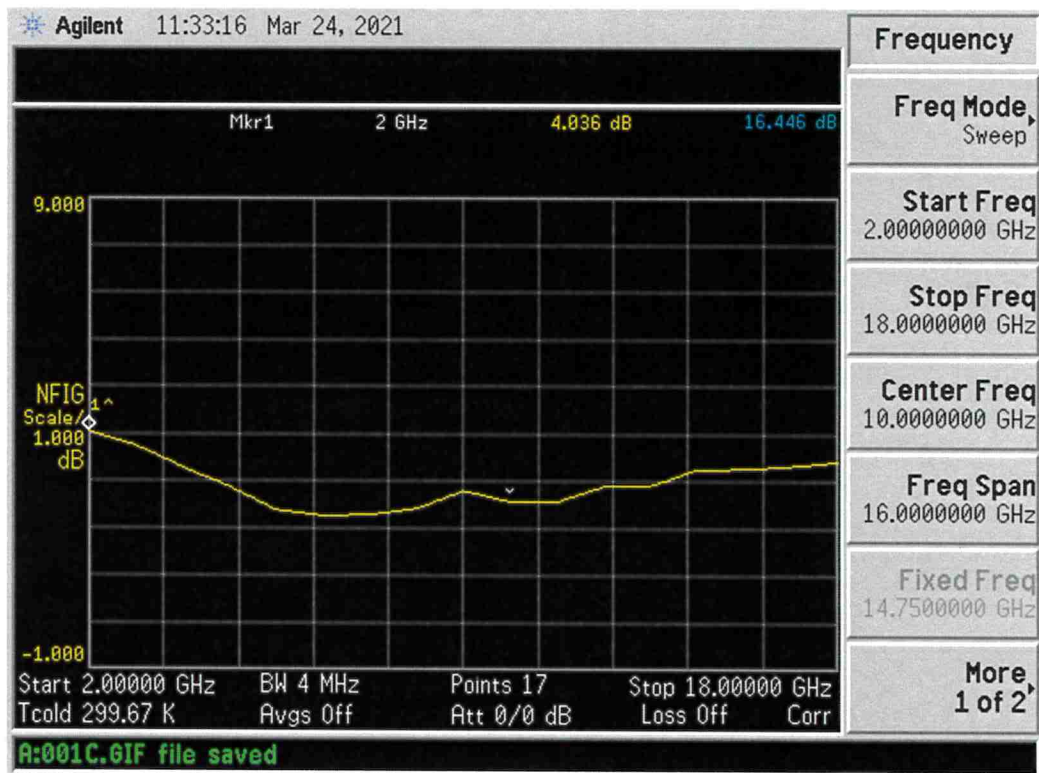
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## NOISE FIGURE @ +85C



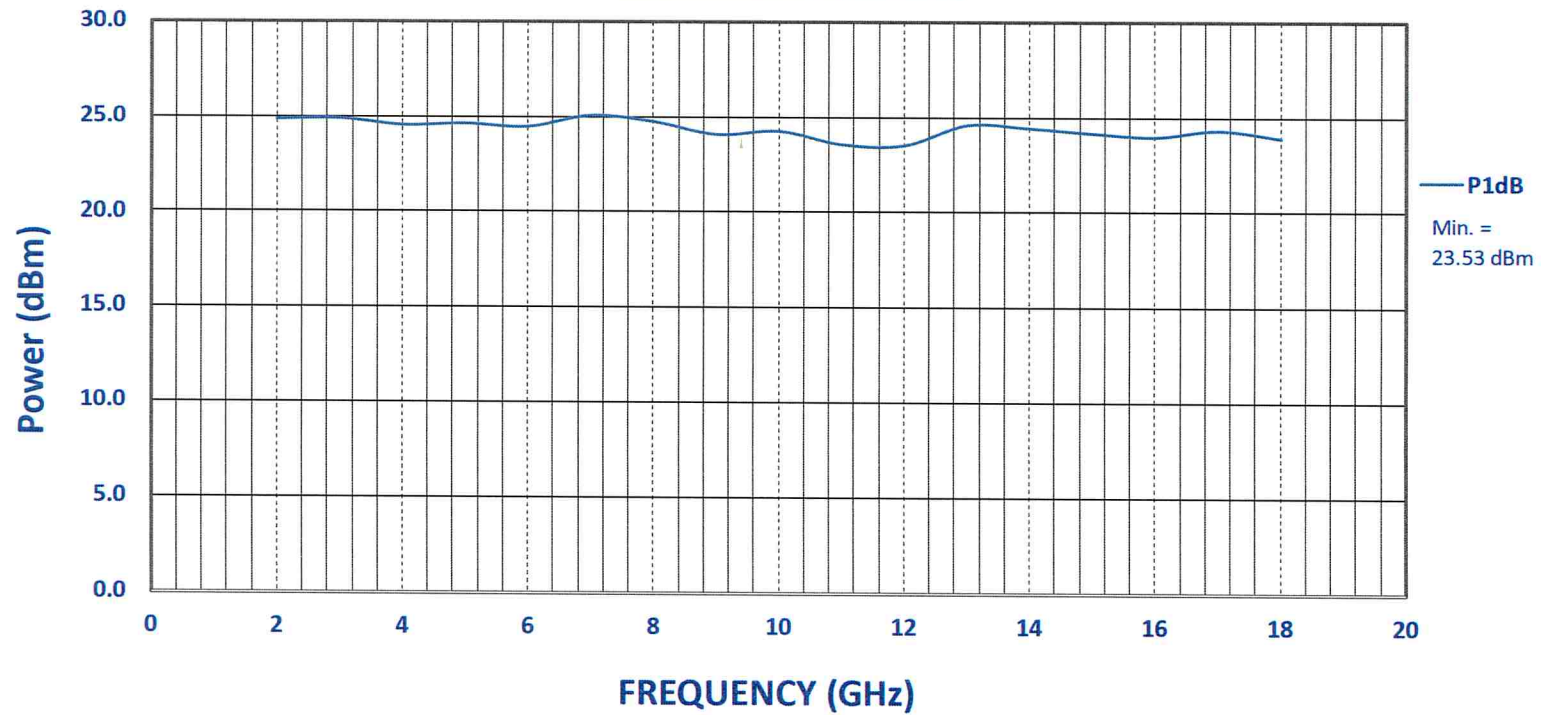


## SUMMARY TEST DATA ON PE2-26-2G18G-5-21-12-SFF-DP

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P1db @ +25C

**P1dB Vs Frequency**



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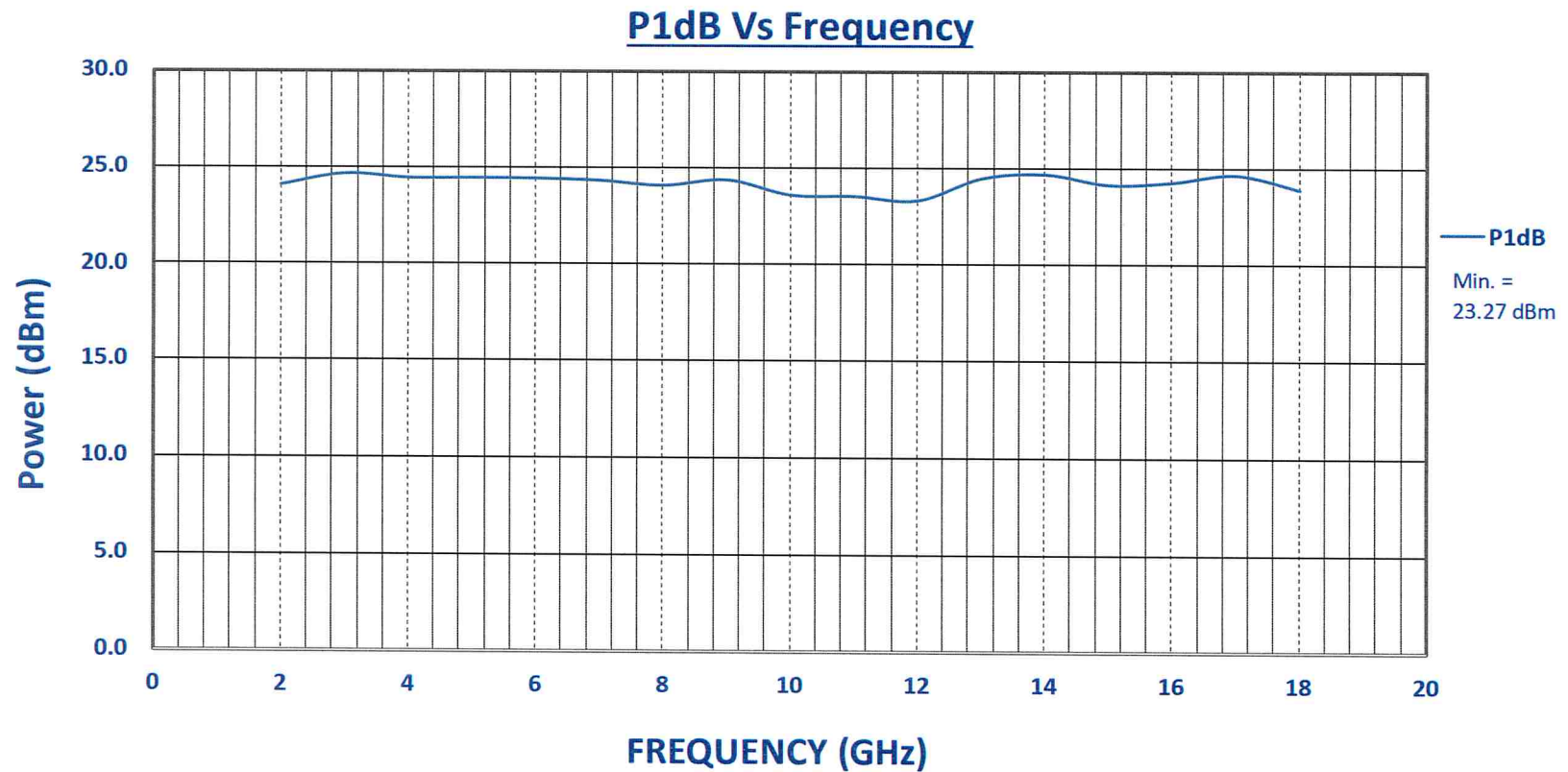




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P1db @ -55C



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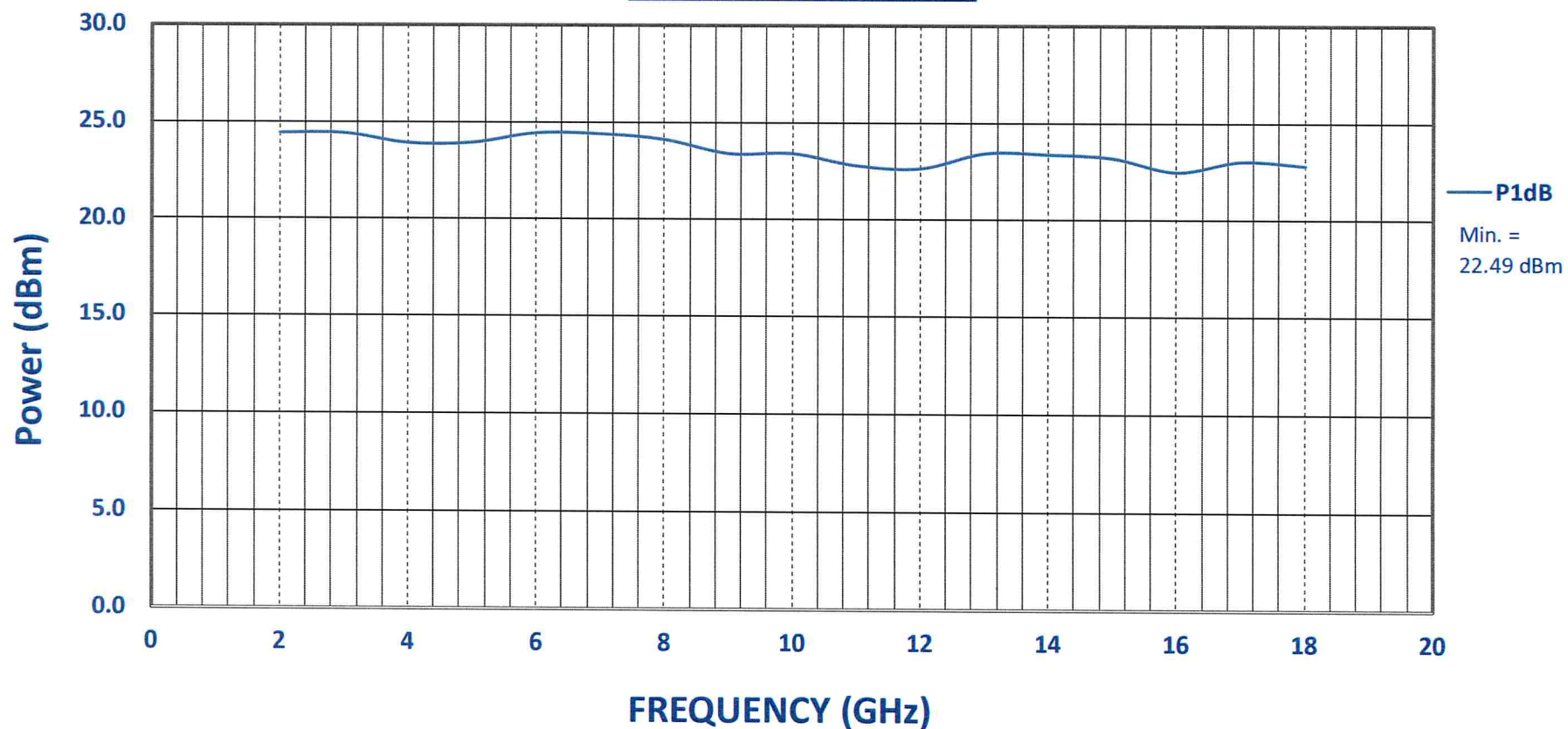


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P1db @ +85C

### P1dB Vs Frequency



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<u>Freq</u>	<u>IP3</u>	<u>IP2</u>
2000	42.905	70.5
4000	41.405	62
6000	41.96	63.51
8000	40.295	61.83
10000	39.06	50.67
12000	38.85	43.01
14000	38.02	52.51
16000	36.965	47
18000	35.725	49.33

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