



**SUMMARY TEST DATA  
ON  
PLVA-218-50-618**

**PL45995/2422**

Customer: \_\_\_\_\_ Tested By: Daniel Weinrob  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: PLVA-218-50-618 Date: 05/28/2024  
Serial No: PL45995/2422 Drawing No: 27618591 Rev: B1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	PMI QA3
2	Frequency Flatness:	± 1.0 dB Max.	± 0.9 dB	
3	Logging Range:	-40 to 0 dBm Min.	-40 to 0 dBm Min	
4	Useful Range:	-40 to + 5 dBm	-40 to + 5 dBm	
5	Log Linearity Error:	± 1.0 dB Max (Room Temp)	± 0.44 dB	
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	Pass (See Plot)	
7	Temperature Stability:	± 1.0 dB Max (-54°C to 85°C)	See Typical Characteristics	
8	Rise Time:	20 ns Max.	See Typical Characteristics	
9	Settling:	45 ns Max.	See Typical Characteristics	
10	Recovery Time:	150 ns Typ. 300 ns Max.	<300 nS	
11	TSS:	-40 dBm Min.	-42 dBm	
12	VSWR:	3.0:1 Max	2.5:1 (See Plot)	
13	Max RF Input:	+ 15 dBm	+ 15 dBm	
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	0 – 2.0 V	
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	50 mA 50 mA	

QA/QC Approval: \_\_\_\_\_

*K. [Signature]*

Date: \_\_\_\_\_

5.31.24

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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PL45995/2422

## Log Transfer vs. Frequency

LOG TRANSFER WITH FREQUENCY  
MODEL: PLVA-218-50-618  
TESTED BY: D. Weinrob  
TEST DATE: 05/29/24  
SERIAL NO: PL45995  
TEST TEMP: +25C

Wednesday, May 29, 2024  
9:59 AM



PLANAR MONOLITHICS INDUSTRIES  
7311-F GROVE ROAD, FREDERICK, MD  
21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
URL: WWW.PMI-RF.COM

Frequency

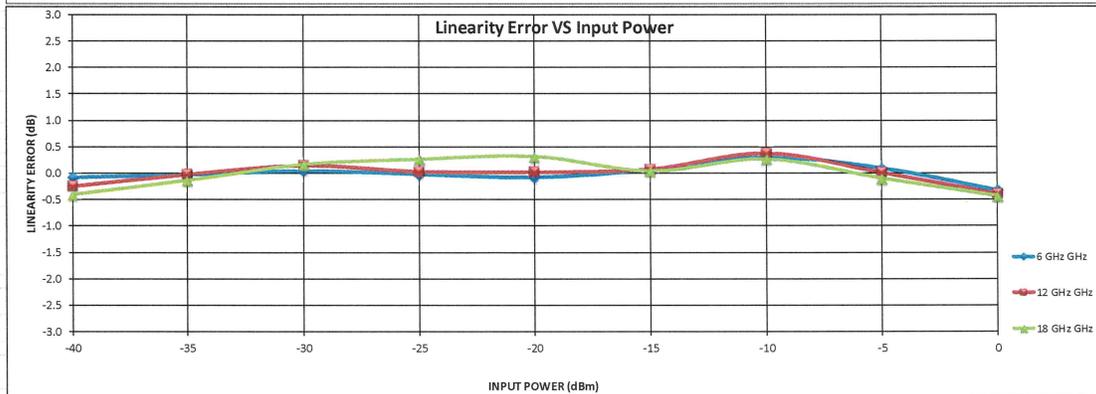
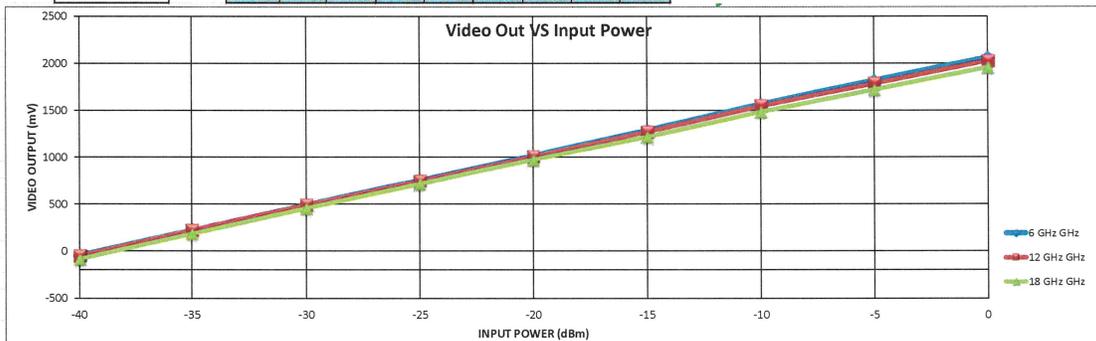
		-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	INTERCEPT (mV)	2071								
	SLOPE (mV/dB)	52.85								
12 GHz	INTERCEPT (mV)	2047								
	SLOPE (mV/dB)	52.05								
18 GHz	INTERCEPT (mV)	1979								
	SLOPE (mV/dB)	51.03								
Flatness +/-dB		0.3	0.4	0.3	0.3	0.3	0.6	0.7	0.9	0.9

RF Input Power (dBm)

Measured Value (mV)  
Error (mV)  
LINEARITY ERROR (dB)

Measured Value (mV)  
Error (mV)  
LINEARITY ERROR (dB)

Measured Value (mV)  
Error (mV)  
LINEARITY ERROR (dB)





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**Return Loss @ -20 dBm**

**VSWR GRAPH**

