



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

**PL47866/2437**

Customer: \_\_\_\_\_ Tested By: Daniel Weinrob  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: PLVA-218-50-618 Date: 09/11/2024  
Serial No: PL47866/2437 Drawing No: 27618591 Rev: B1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC PMI QA3
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	
2	Frequency Flatness:	± 1.0 dB Max.	± 0.9 dB	
3	Logging Range:	-40 to 0 dBm Min.	-40 to 0 dBm	
4	Useful Range:	-40 to + 5 dBm	-40 to + 5 dBm	
5	Log Linearity Error:	± 1.0 dB Max (Room Temp)	± 0.55 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.	-42.5 dBm	
12	VSWR:	3.0:1 Max	2.96:1 (See Plot)	
13	Max RF Input:	+ 15 dBm	+ 15 dBm	
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	Pass (See Plot)	
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	50 mA 50 mA	

QA/QC Approval: *B. Klumpp* Date: 9-18-24

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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PL47866/2437

## Log Transfer vs. Frequency

LOG TRANSFER WITH FREQUENCY  
MODEL: PLVA-218-50-618  
TESTED BY: D. Weinrob  
TEST DATE: 9/5/24  
SERIAL NO: PL47866  
TEST TEMP: +25C

Tuesday, September 10, 2024  
2:20 PM



PLANAR MONOLITHICS INDUSTRIES  
7311-F GROVE ROAD, FREDERICK, MD  
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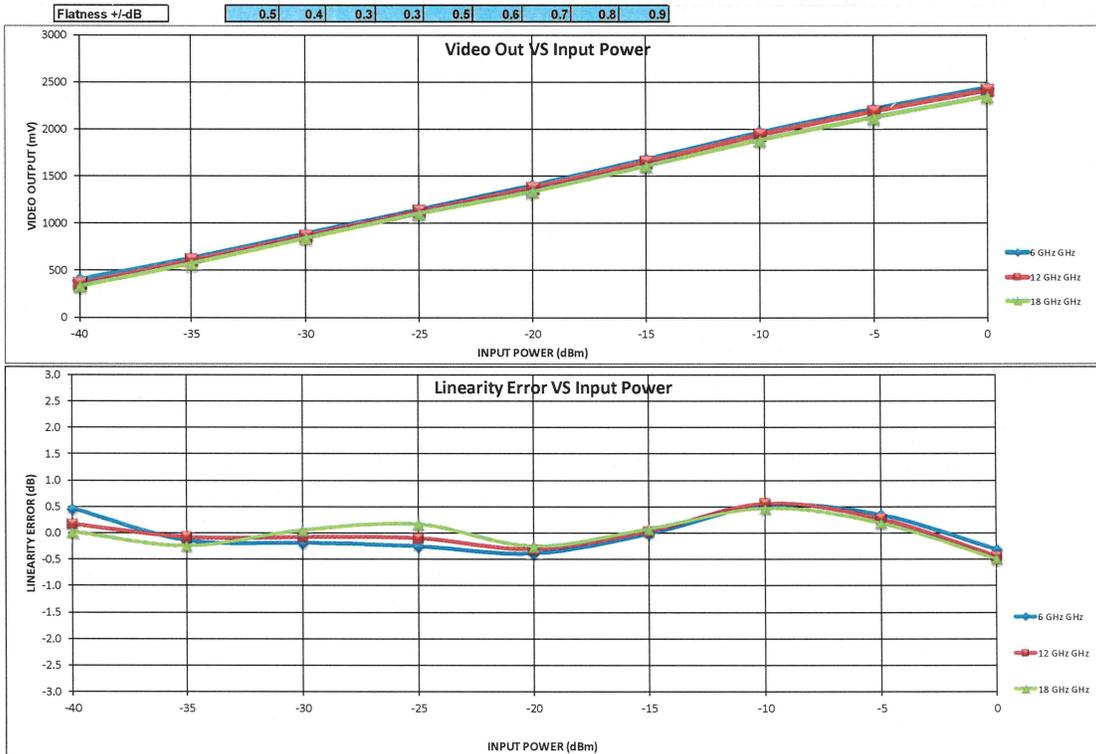
Frequency

Frequency	Intercept (mV)	Slope (mV/dB)	-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	2448	62.06	389	618	876	1133	1386	1666	1954	2205	2431
			24	-8	-10	-13	-20	-1	27	18	-17
			0.46	-0.14	-0.19	-0.25	-0.39	-0.01	0.52	0.34	-0.32
12 GHz	2433	52	362	609	869	1128	1377	1655	1942	2187	2410
			9	-4	-4	-5	-16	2	29	14	-23
			0.17	-0.08	-0.08	-0.10	-0.31	0.03	0.56	0.27	-0.45
18 GHz	2366	60.84	333	574	843	1103	1336	1607	1881	2121	2341
			1	-12	3	8	-13	4	24	10	-25
			0.02	-0.24	0.05	0.17	-0.25	0.08	0.47	0.19	-0.48
Flatness +/-dB			0.5	0.4	0.3	0.3	0.5	0.6	0.7	0.8	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**

