



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

**PL47868/2437**

Customer: \_\_\_\_\_ Tested By: Daniel Weinrob  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: PLVA-218-50-618 Date: 09/11/2024  
Serial No: PL47868/2437 Drawing No: 27618591 Rev: B1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC <i>PMI</i> QA3
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	
2	Frequency Flatness:	± 1.0 dB Max.	± 0.8 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)	± 0.77 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.	-43 dBm	
12	VSWR:	3.0:1 Max	2.24:1 (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: *K. K...* 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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## Log Transfer vs. Frequency

LOG TRANSFER WITH FREQUENCY  
MODEL: PLVA-218-50-618  
TESTED BY: D. Weinrob  
TEST DATE: 9/5/24  
SERIAL NO: PL47868  
TEST TEMP: +25C

Tuesday, September 10, 2024  
2:24 PM



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

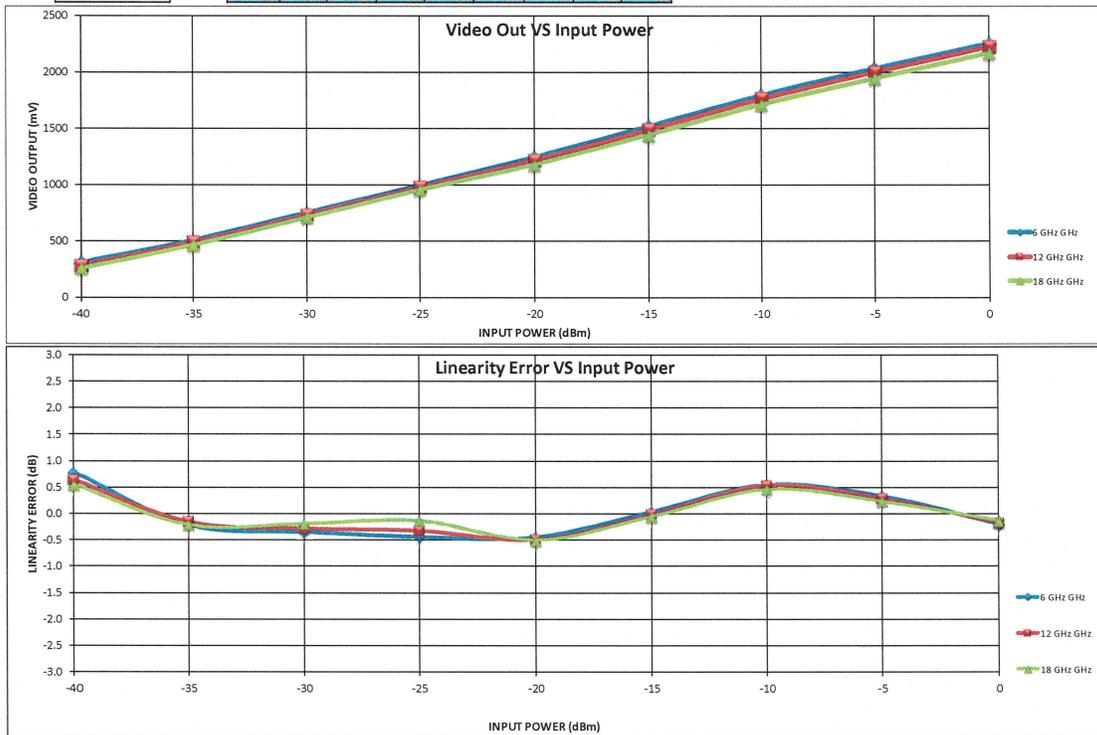
		-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	INTERCEPT (mV)	297	497	740	985	1234	1508	1783	2022	2245
	SLOPE (mV/dB)	39	-11	-18	-22	-23	2	27	16	-10
		0.77	-0.22	-0.35	-0.44	-0.46	0.03	0.54	0.33	-0.20
12 GHz	INTERCEPT (mV)	279	488	730	976	1216	1488	1763	1999	2224
	SLOPE (mV/dB)	31	-8	-14	-16	-24	-1	26	14	-9
		0.63	-0.16	-0.28	-0.33	-0.49	-0.01	0.53	0.28	-0.18
18 GHz	INTERCEPT (mV)	255	461	705	951	1176	1441	1709	1941	2166
	SLOPE (mV/dB)	27	-10	-9	-7	-25	-3	22	11	-7
		0.55	-0.22	-0.20	-0.13	-0.51	-0.05	0.46	0.23	-0.14
Flatness +/-dB		0.4	0.4	0.4	0.3	0.6	0.7	0.7	0.8	0.8

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**

