



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

**PL47862/2437**

Customer: \_\_\_\_\_ Tested By: Daniel Weinrob  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: PLVA-218-50-618 Date: 09/11/2024  
Serial No: PL47862/2437 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	
4	Useful Range:	-40 to + 5 dBm	-40 to + 5 dBm	
5	Log Linearity Error:	± 1.0 dB Max (Room Temp)	± 0.85 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.	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. Khanna* Date: 9-18-24

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
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PL47862/2437

## Log Transfer vs. Frequency

LOG TRANSFER WITH FREQUENCY  
MODEL: PLVA-218-50-618  
TESTED BY: D. Weinrob  
TEST DATE: 9/5/24  
SERIAL NO: PL47862  
TEST TEMP: +25C

Tuesday, September 10, 2024  
2:05 PM

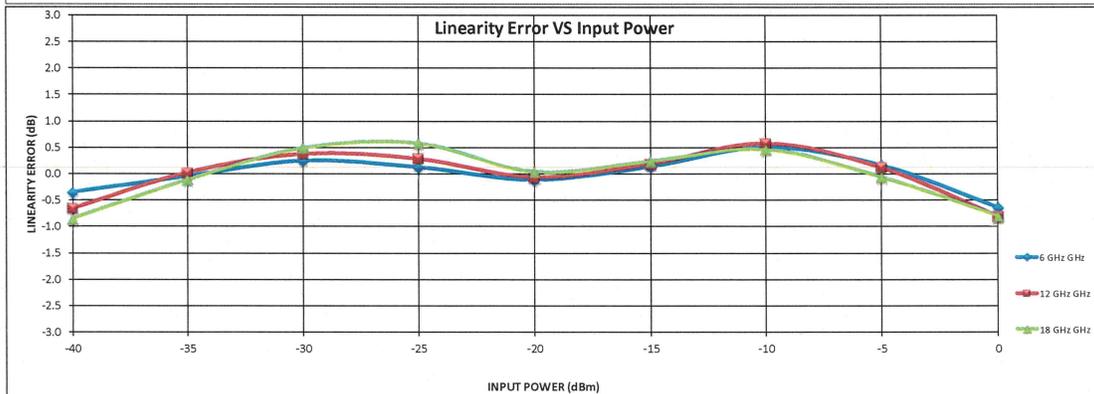
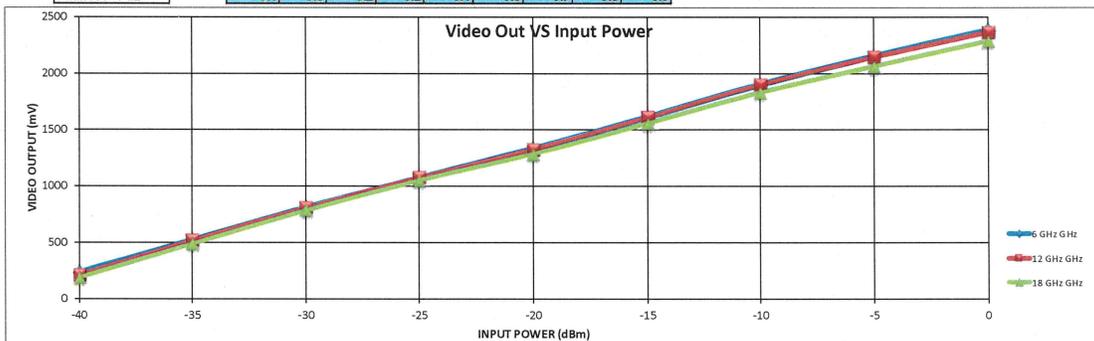


PLANAR MONOLITHICS INDUSTRIES  
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URL: WWW.PMI-RF.COM

Frequency

		-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	INTERCEPT (mV)	230	517	803	1067	1324	1608	1898	2150	2377
	SLOPE (mV/dB)	-19	-3	13	7	-6	7	27	9	-35
		-0.36	-0.05	0.24	0.13	-0.12	0.13	0.50	0.16	-0.64
12 GHz	INTERCEPT (mV)	211	518	807	1072	1323	1607	1898	2143	2363
	SLOPE (mV/dB)	-36	1	20	15	-4	10	31	6	-44
		-0.66	0.02	0.37	0.28	-0.07	0.19	0.58	0.11	-0.81
18 GHz	INTERCEPT (mV)	169	489	782	1048	1281	1553	1826	2060	2283
	SLOPE (mV/dB)	-45	-9	26	30	2	19	24	-3	-41
		-0.85	-0.11	0.49	0.58	0.04	0.24	0.46	-0.06	-0.79
Flatness +/-dB		0.4	0.3	0.2	0.2	0.4	0.5	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

