



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

**PL47865/2437**

Customer: \_\_\_\_\_ Tested By: Daniel Weinrob  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: PLVA-218-50-618 Date: 09/11/2024  
Serial No: PL47865/2437 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)	± 0.56 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	2.22:1 (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. 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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## Log Transfer vs. Frequency

LOG TRANSFER WITH FREQUENCY  
MODEL: PLVA-218-50-618  
TESTED BY: D. Weinrob  
TEST DATE: 9/3/24  
SERIAL NO: PL47865  
TEST TEMP: +25C

Tuesday, September 10, 2024  
2:16 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

**6 GHz** INTERCEPT (mV) 2465  
SLOPE (mV/dB) 82.88

**12 GHz** INTERCEPT (mV) 2456  
SLOPE (mV/dB) 83.08

**18 GHz** INTERCEPT (mV) 2387  
SLOPE (mV/dB) 81.41

Flatness +/-dB

	-40	-35	-30	-25	-20	-15	-10	-5	0
379	607	869	1127	1384	1669	1957	2208	2465	
29	-7	-9	-16	-23	-3	21	8	0	
0.86	-0.13	-0.18	-0.30	-0.44	-0.05	0.40	0.14	0.00	
342	596	863	1124	1376	1661	1950	2195	2446	
9	-3	-1	-5	-19	1	24	4	-10	
0.17	-0.05	-0.02	-0.10	-0.35	0.02	0.46	0.08	-0.20	
324	580	853	1113	1347	1621	1896	2130	2369	
-7	-8	8	11	-12	5	23	0	-18	
-0.14	-0.16	0.15	0.21	-0.24	0.09	0.44	-0.01	-0.36	
0.5	0.3	0.2	0.1	0.3	0.5	0.6	0.7	0.9	

RF Input Power (dBm)

Measured Value (mV)

Error (mV)

LINEARITY ERROR (dB)

Measured Value (mV)

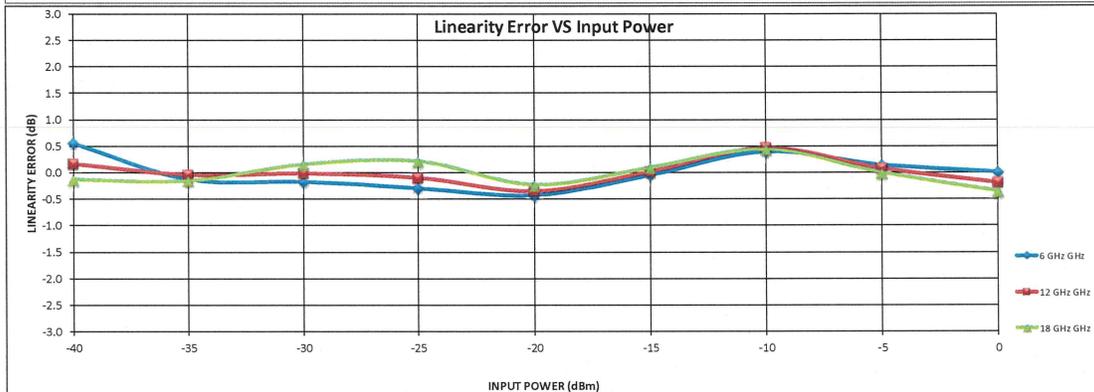
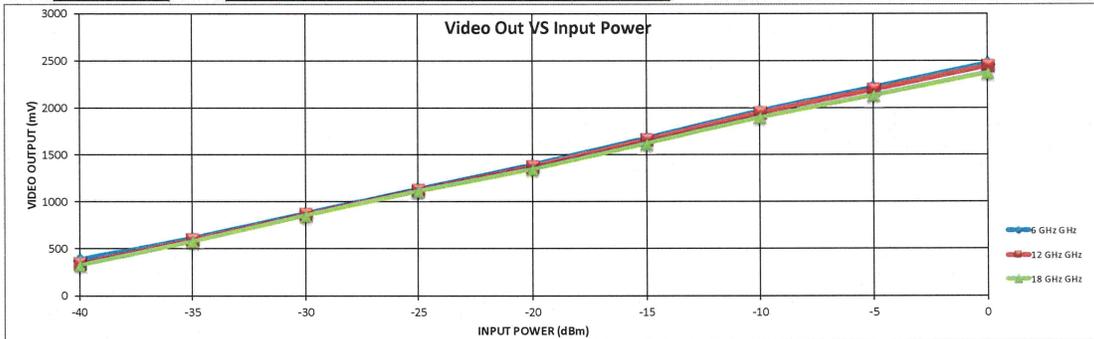
Error (mV)

LINEARITY ERROR (dB)

Measured Value (mV)

Error (mV)

LINEARITY ERROR (dB)





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Return Loss @ -20 dBm

**VSWR GRAPH**

