



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

PL47867/2437

Customer: _____ Tested By: Daniel Weinrob
SO No: _____ Temperature: +25°C
Model No: PLVA-218-50-618 Date: 09/11/2024
Serial No: PL47867/2437 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.	± 0.8 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)	± 0.65 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	2.97:1 (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



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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: PL47867
TEST TEMP: +25C

Tuesday, September 10, 2024
2:22 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)	2375	385	597	844	1093	1341	1614	1893	2137	2367
	SLOPE (mV/dB)	60.56	33	-8	-14	-18	-22	-2	24	15	-8
12 GHz	INTERCEPT (mV)	2354	370	589	834	1084	1324	1597	1874	2116	2347
	SLOPE (mV/dB)	60.27	27	-5	-12	-13	-24	-3	23	14	-7
18 GHz	INTERCEPT (mV)	2295	352	568	819	1069	1294	1559	1825	2058	2285
	SLOPE (mV/dB)	49.01	18	-11	-5	0	-20	0	21	8	-10

RF Input Power (dBm)

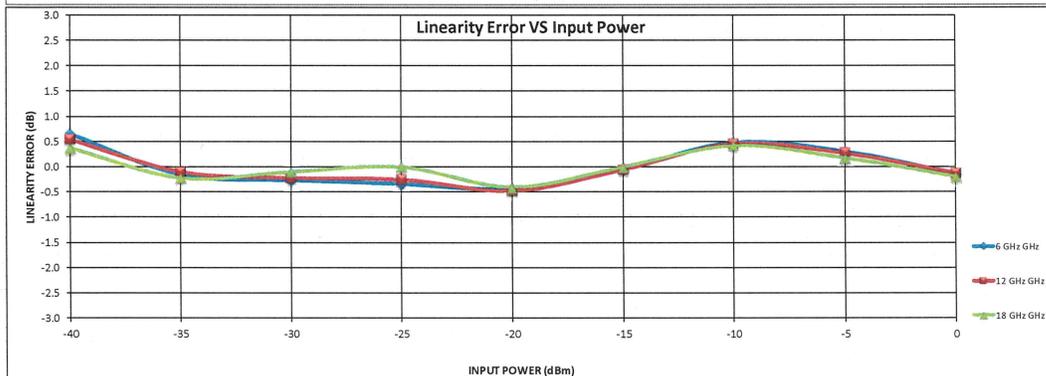
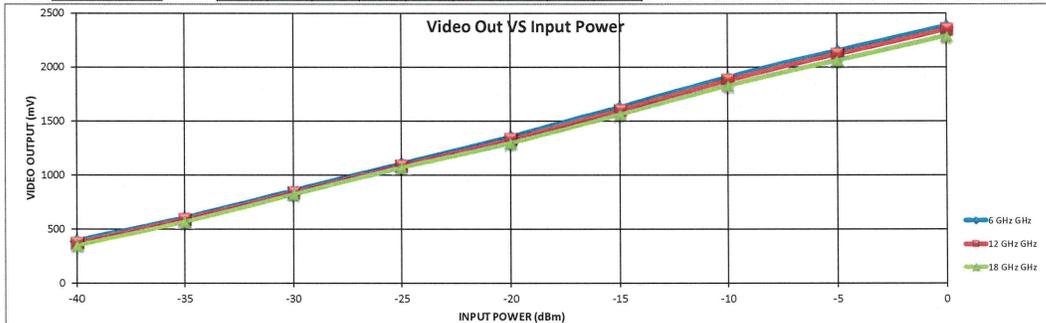
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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

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

Flatness +/-dB

0.3	0.3	0.2	0.2	0.5	0.5	0.7	0.8	0.8
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Return Loss @ -20 dBm

