



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

PL47870/2438

Customer: _____	Tested By: <u>Daniel Weinrob</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>PLVA-218-50-618</u>	Date: <u>09/20/24</u>
Serial No: <u>PL47870/2438</u>	Drawing No: <u>27618591</u> Rev: <u>B1</u>

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	PMI QA3 <hr style="border: 1px solid black;"/>
2	Frequency Flatness:	± 1.0 dB Max.	± 0.7 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)	± 0.51 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	2.42:1 (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: 9-23-24

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: 9/11/24
 SERIAL NO: PL47870
 TEST TEMP: +25C

Wednesday, September 18, 2024
 10:39 AM



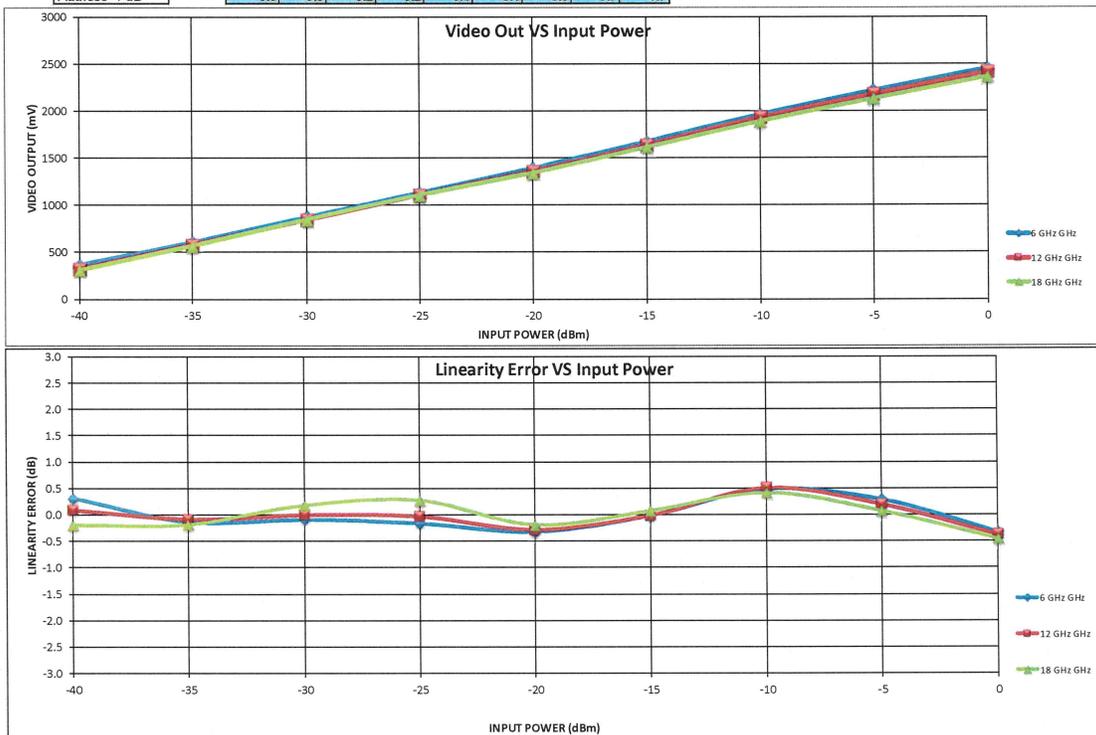
PLANAR MONOLITHICS INDUSTRIES
 7311-F GROVE ROAD, FREDERICK, MD
 21704 USA
 TEL: 301-662-5019 FAX: 301-662-1731
 URL: WWW.PMI-RF.COM

Frequency

			-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	INTERCEPT (mV)	2456	355	596	863	1124	1380	1661	1952	2206	2438
	SLOPE (mV/dB)	52.92	16	-7	-5	-9	-17	-1	26	15	-18
			0.31	-0.14	-0.09	-0.16	-0.33	-0.02	0.48	0.28	-0.33
12 GHz	INTERCEPT (mV)	2434	315	571	841	1105	1357	1637	1930	2179	2414
	SLOPE (mV/dB)	53.1	5	-5	0	-2	-15	-1	27	10	-20
			0.09	-0.09	0.00	-0.03	-0.28	-0.01	0.51	0.20	-0.38
18 GHz	INTERCEPT (mV)	2389	305	565	843	1107	1342	1615	1892	2133	2365
	SLOPE (mV/dB)	51.83	-10	-9	9	14	-10	4	22	4	-24
			-0.20	-0.18	0.18	0.28	-0.19	0.08	0.42	0.07	-0.45
Flatness +/-dB			0.5	0.3	0.2	0.2	0.4	0.4	0.6	0.7	0.7

RF Input Power (dBm)
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

