



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

PL47873/2438

Customer: _____ Tested By: Daniel Weinrob
 SO No: _____ Temperature: +25°C
 Model No: PLVA-218-50-618 Date: 09/20/24
 Serial No: PL47873/2438 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)	± 0.81 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	2.80:1 (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: 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: 9/18/24
SERIAL NO: PL47873
TEST TEMP: +25C

Wednesday, September 18, 2024
10:32 AM



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD
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Frequency

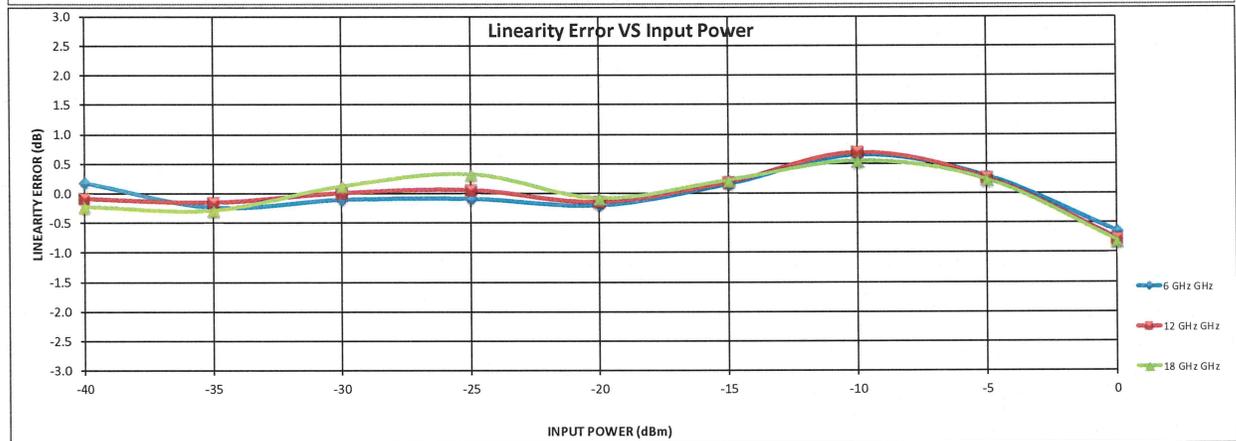
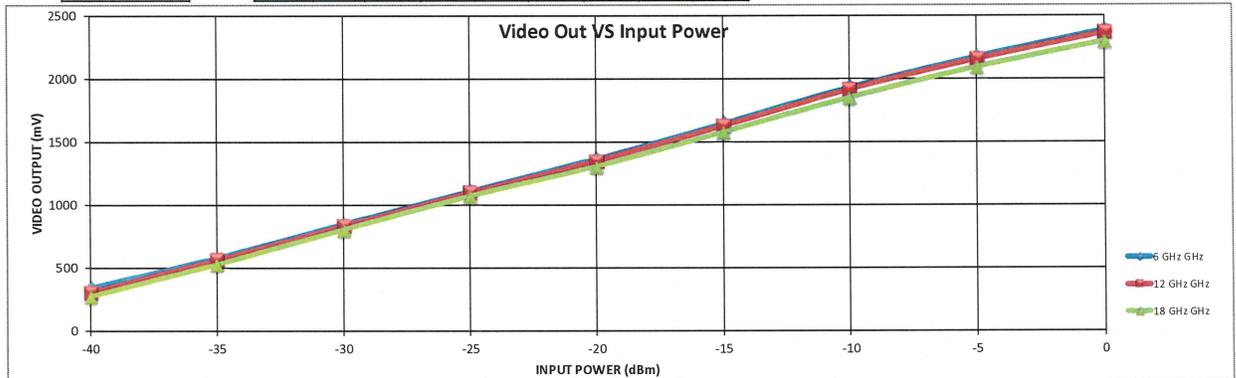
		-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	INTERCEPT (mV)	327	567	836	1099	1355	1636	1924	2167	2380
	SLOPE (mV/dB)	10	-12	-6	-5	-11	8	34	15	-34
		0.18	-0.24	-0.10	-0.09	-0.20	0.16	0.65	0.29	-0.65
12 GHz	INTERCEPT (mV)	298	557	828	1093	1345	1625	1914	2154	2362
	SLOPE (mV/dB)	-5	-8	0	3	-8	10	36	14	-41
		-0.09	-0.16	0.00	0.05	-0.15	0.18	0.69	0.26	-0.78
18 GHz	INTERCEPT (mV)	270	523	800	1067	1302	1574	1847	2087	2290
	SLOPE (mV/dB)	-12	15	6	17	-5	11	28	12	-42
		-0.23	-0.29	0.11	0.32	-0.09	0.22	0.54	0.23	-0.81
Flatness +/-dB		0.5	0.4	0.3	0.3	0.5	0.6	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

