



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

PL47863/2437

Customer: _____ Tested By: Daniel Weinrob
SO No: _____ Temperature: +25°C
Model No: PLVA-218-50-618 Date: 09/11/2024
Serial No: PL47863/2437 Drawing No: 27618591 Rev: B1

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC Pmt QA3
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	
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)	± 0.55 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	2.68:1 (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: PL47863
TEST TEMP: +25C

Tuesday, September 10, 2024
2:08 PM



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD
21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
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Frequency

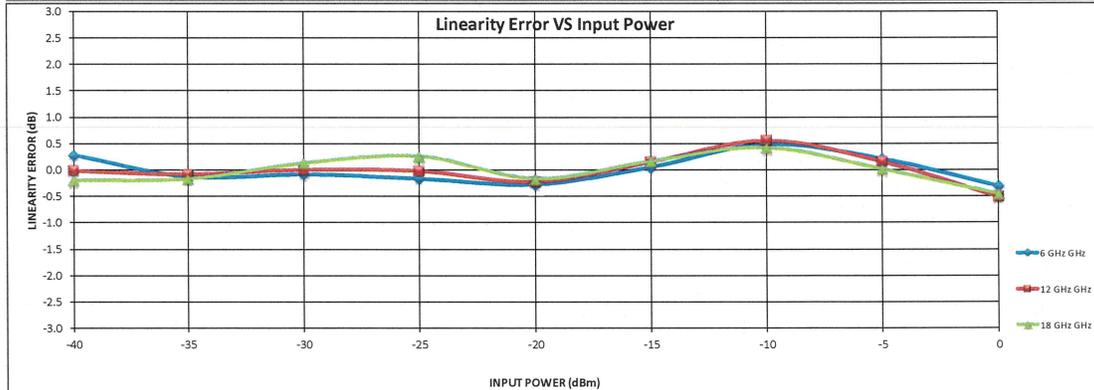
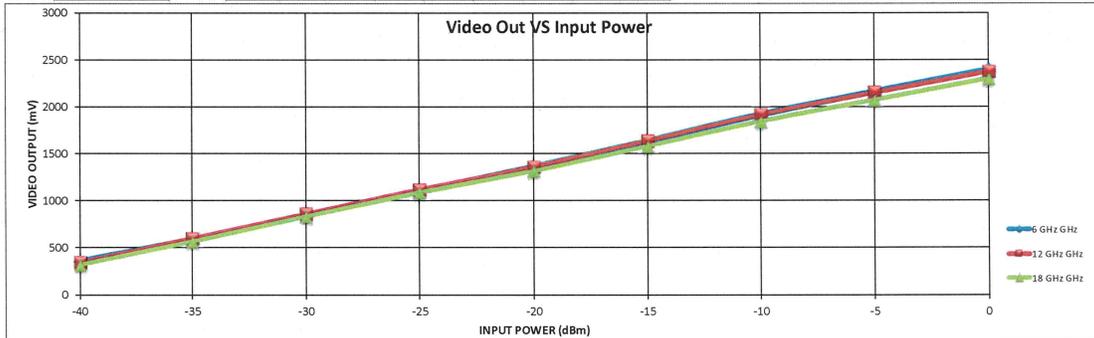
		-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	INTERCEPT (mV)	2401								
	SLOPE (mV/dB)	51.69								
		352	589	849	1103	1365	1630	1910	2154	2385
12 GHz	INTERCEPT (mV)	2397								
	SLOPE (mV/dB)	51.29								
		345	598	859	1114	1360	1636	1913	2149	2371
18 GHz	INTERCEPT (mV)	2319								
	SLOPE (mV/dB)	49.87								
		314	565	829	1086	1313	1579	1841	2070	2296
Flatness +/-dB		0.4	0.3	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

VSWR GRAPH

