



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

PL47872/2438

Customer: _____ Tested By: Daniel Weinrob
 SO No: _____ Temperature: +25°C
 _____ Date: 09/20/24
 _____ 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 <hr style="border: 1px solid black;"/>
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)	± 0.46 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	2.30:1 (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. [Signature]* 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: PL47872
TEST TEMP: +25C

Wednesday, September 18, 2024
10:35 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

Frequency	Intercept (mV)	Slope (mV/dB)	-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	2437	51.37	405	631	888	1142	1391	1666	1945	2186	2432
			23	-8	-8	-11	-19	0	22	6	-5
			0.44	-0.16	-0.15	-0.21	-0.36	-0.01	0.42	0.11	-0.10
12 GHz	2426	61.6	363	615	879	1136	1380	1653	1933	2169	2411
			2	-4	2	1	-13	2	24	2	-14
			0.03	-0.08	0.03	0.01	-0.26	0.03	0.46	0.04	-0.27
18 GHz	2374	60.4	343	602	873	1131	1359	1625	1893	2120	2351
			-15	-8	11	17	-7	7	23	-2	-23
			-0.30	-0.17	0.21	0.33	-0.15	0.13	0.45	-0.05	-0.46

RF Input Power (dBm)

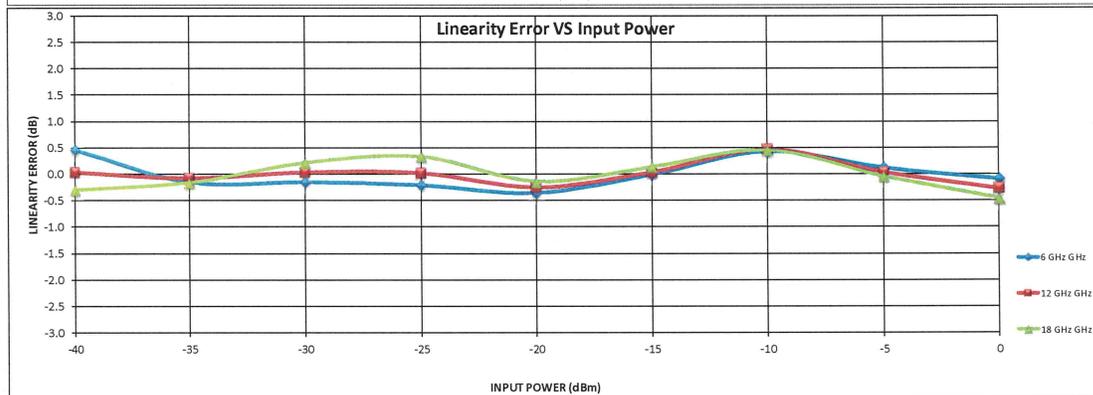
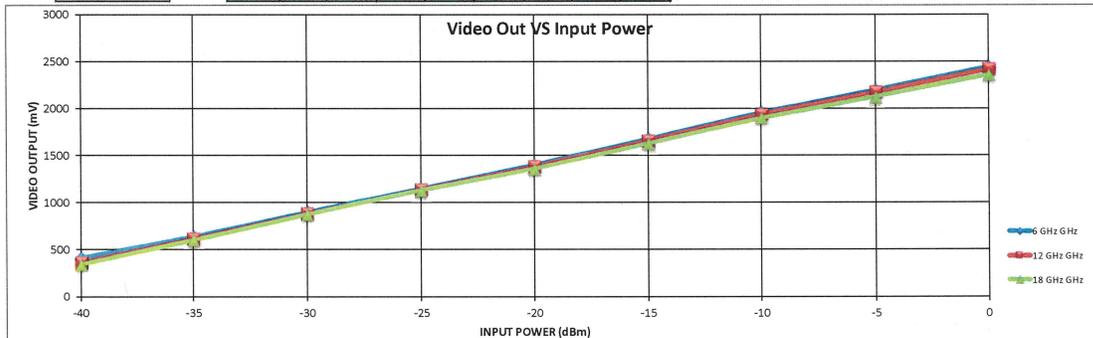
Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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

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

Flatness +/-dB

Flatness +/-dB	0.6	0.3	0.1	0.1	0.3	0.4	0.5	0.6	0.8
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Return Loss @ -20 dBm

VSWR GRAPH

