



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

PL47864/2437

Customer: _____ Tested By: Daniel Weinrob
SO No: _____ Temperature: +25°C
Model No: PLVA-218-50-618 Date: 09/11/2024
Serial No: PL47864/2437 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.	± 0.9 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)	± 0.59 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	2.91:1 (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: _____

9-18-24

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: PL47864
TEST TEMP: +25C

Tuesday, September 10, 2024
2:11 PM

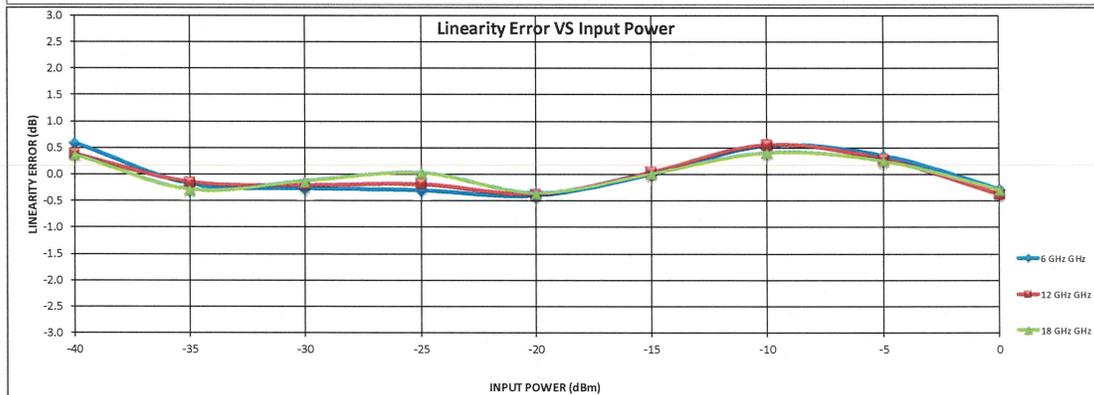
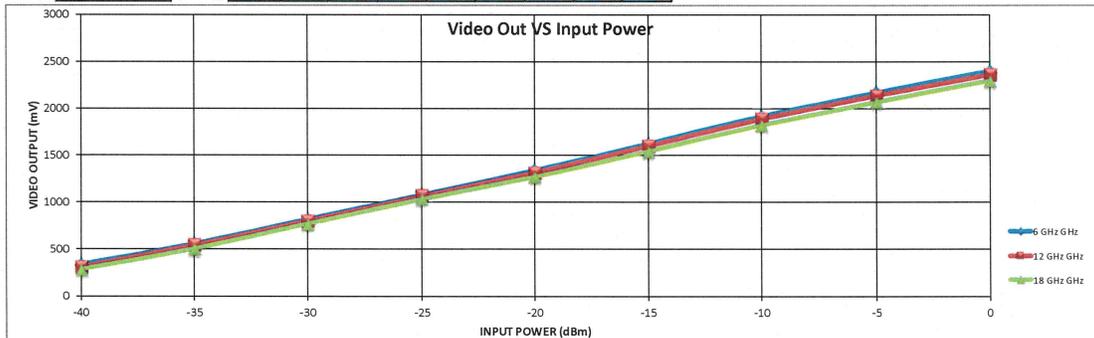


PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD
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Frequency

Frequency	Intercept (mV)	Slope (mV/dB)	-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	2403	52.73	327	550	809	1071	1329	1614	1906	2160	2390
			31	-10	-14	-16	-22	0	28	18	-15
12 GHz	2385	52.4	309	543	802	1065	1317	1601	1890	2138	2365
			20	-8	-11	-10	-20	2	29	15	-20
18 GHz	2310	51.18	282	504	768	1032	1268	1543	1819	2067	2295
			19	-15	-7	1	-18	1	21	13	-15
Flatness +/-dB			0.37	-0.29	-0.13	0.03	-0.36	0.01	0.41	0.25	-0.29

RF Input Power (dBm)	Measured Value (mV)	Error (mV)	LINEARITY ERROR (dB)
-40	327	31	0.69
-35	550	-10	-0.18
-30	809	-14	-0.27
-25	1071	-16	-0.30
-20	1329	-22	-0.41
-15	1614	0	-0.01
-10	1906	28	0.53
-5	2160	18	0.35
0	2390	-15	-0.29





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Return Loss @ -20 dBm

VSWR GRAPH

