



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

PL45996/2422

Tested By: Danie
 Temperature: +25°C
 Date: 05/28/2024
 Drawing No: 27618591 Rev: B1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC QA3
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	
2	Frequency Flatness:	± 1.0 dB Max.	± 0.6 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)	± 0.49 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.	-41 dBm	
12	VSWR:	3.0:1 Max	2.9:1 (See Plot)	
13	Max RF Input:	+ 15 dBm	+ 15 dBm	
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	0.08 – 2.0 V	
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	50 mA 50 mA	

QA/QC Approval: *K. White* Date: 5.31.24

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

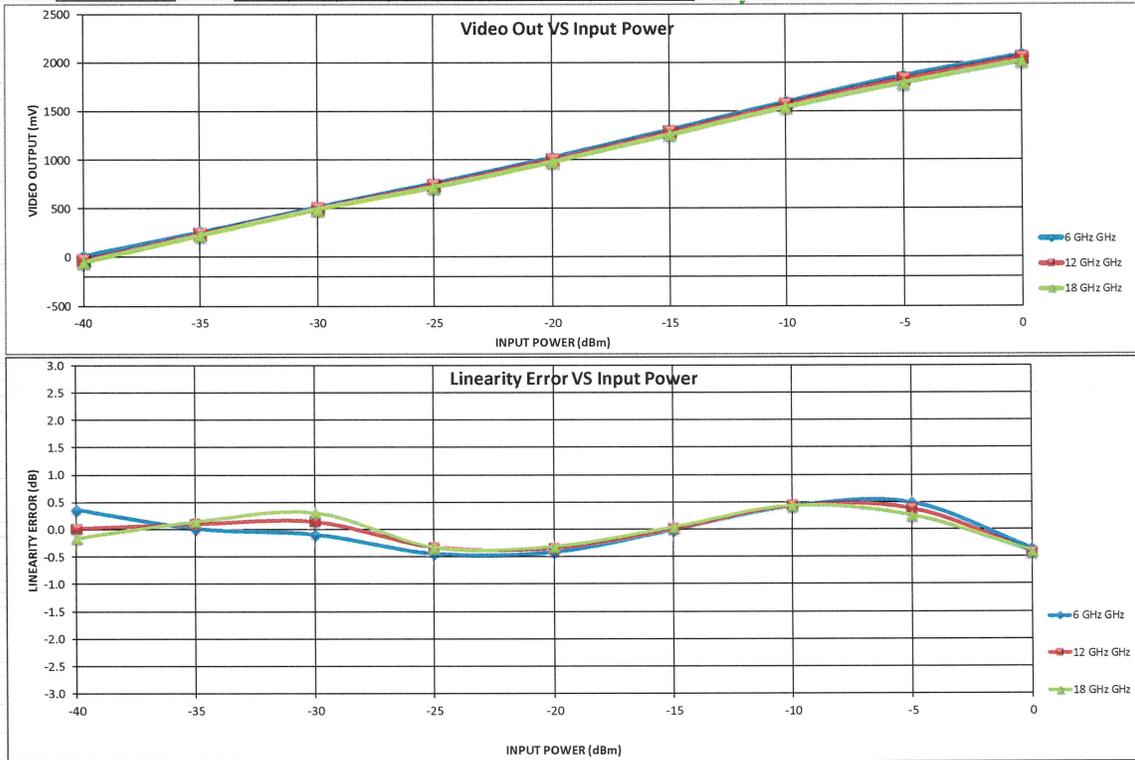
LOG TRANSFER WITH FREQUENCY
MODEL: PLVA-218-50-618
TESTED BY: D. Weinrob
TEST DATE: 05/30/24
SERIAL NO: PL45996
TEST TEMP: +25C

Thursday, May 30, 2024
10:31 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	RF Input Power (dBm)
6 GHz	INTERCEPT (mV)	2089									
	SLOPE (mV/dB)	52.7									
		0	245	503	748	1013	1298	1584	1851	2070	
		19	1	-5	-23	-22	0	22	26	-19	Measured Value (mV)
		0.37	0.02	-0.09	-0.44	-0.41	0.00	0.42	0.49	-0.35	Error (mV)
											LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2072									
	SLOPE (mV/dB)	52.55									
		-29	238	503	741	1003	1284	1569	1829	2050	
		1	5	8	-17	-18	0	23	20	-22	Measured Value (mV)
		0.02	0.10	0.14	-0.33	-0.34	0.01	0.43	0.38	-0.42	Error (mV)
											LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	2036									
	SLOPE (mV/dB)	51.87									
		-47	228	496	722	982	1260	1540	1790	2015	
		-8	8	16	-17	-16	2	23	14	-21	Measured Value (mV)
		-0.16	0.15	0.31	-0.33	-0.32	0.04	0.44	0.26	-0.40	Error (mV)
											LINEARITY ERROR (dB)
Flatness +/-dB		0.4	0.2	0.1	0.2	0.3	0.4	0.4	0.6	0.5	





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Return Loss @ -20 dBm

VSWR GRAPH

