



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

Customer: _____	Tested By: <u>J Boze</u>
SO No: _____	Temperature: <u>+25°C</u>
Model No: <u>PLVA-218-50-618</u>	Date: <u>04/08/2020</u>
Serial No: <u>13041</u>	Drawing No: <u>27618594</u> Rev: <u>A1</u>
Part No: _____	

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC PMI QA3
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	PMI QA3
2	Frequency Flatness:	± 1.0 dB Max.	±0.6 dB	1
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)	±0.47 dB	
8	Rise Time:	20 ns Max.	10.6 ns	
9	Settling:	45 ns Max.	Pass	
10	Recovery Time:	150 ns Typ. 300 ns Max.	70.4 ns	
11	TSS:	-40 dBm Min.	-42 dBm	
12	VSWR:	3.0:1 Max	2.76:1 (See Plot)	
13	Max RF Input:	+15 dBm	+15 dBm	
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	0 – 2.1 V	
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	40 mA 40 mA	PMI QA3

QA/QC Approval: Arthur Zimmerman Date: 4-13-21

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: SDLVA-218-44-70MV
 TESTED BY: J Boze
 TEST DATE: 04/08/21
 SERIAL NO: 3041 Final
 TEST TEMP: +25°C



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
6 GHz	INTERCEPT (mV)	155	357	593	838	1094	1375	1651	1879	2097
	SLOPE (mV/dB)	39	-9	-23	-28	-21	10	36	14	-18
		0.77	-0.18	-0.46	-0.55	-0.43	0.20	0.72	0.28	-0.35

12 GHz	INTERCEPT (mV)	162	375	618	870	1125	1402	1671	1887	2095
	SLOPE (mV/dB)	22	-14	-19	-15	-9	20	40	8	-33
		0.44	-0.27	-0.38	-0.31	-0.18	0.40	0.81	0.16	-0.66

18 GHz	INTERCEPT (mV)	122	323	564	810	1064	1338	1609	1834	2045
	SLOPE (mV/dB)	33	-14	-20	-21	-15	12	35	13	-23
		0.66	-0.28	-0.40	-0.43	-0.30	0.24	0.72	0.26	-0.47

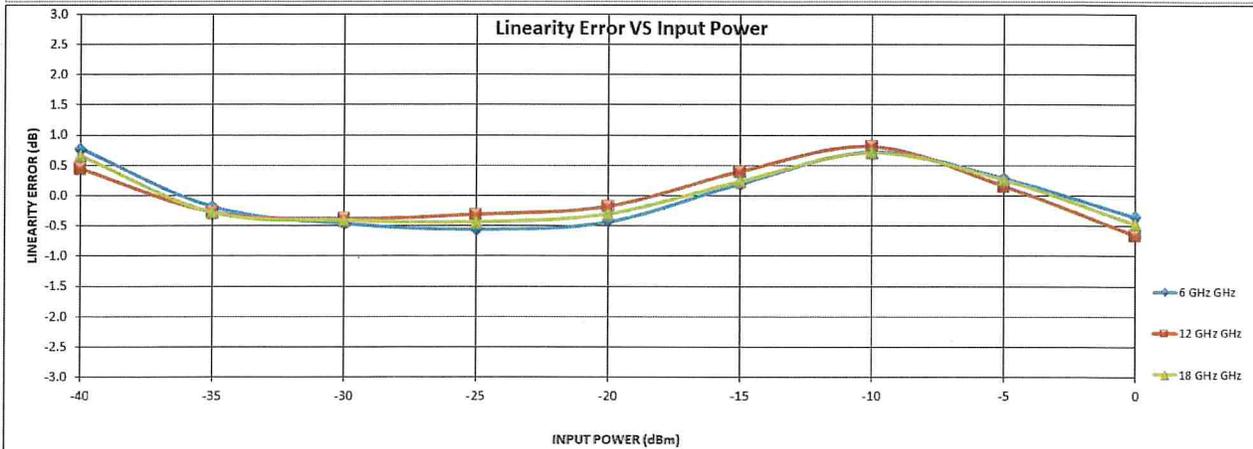
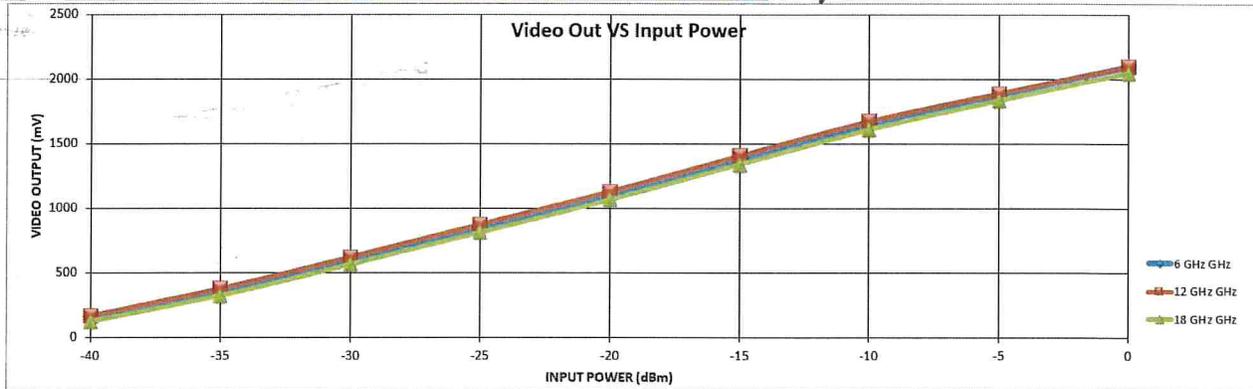
RF Input Power (dBm)

Measured Value (mV)	
Error (mV)	0.77

Measured Value (mV)	
Error (mV)	0.81

Measured Value (mV)	
Error (mV)	0.72

Flatness +/-dB	-40	-35	-30	-25	-20	-15	-10	-5	0
	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5





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Return Loss @ -20 dBm

