



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

PL26722/1941

Customer:		Tested By:	<u>J. Emperador</u>	
SO No:		Temperature:	<u>+25°C</u>	
Model No:	<u>PLVA-218-50-618</u>	Date:	<u>10/09/19</u>	
Serial No:	<u>PL26722/1941</u>	Drawing No:	<u>27618591</u>	Rev: <u>B1</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC	
1	Frequency Range:	6 GHz – 18 GHz	6 GHz – 18 GHz	PMI QA1	
2	Frequency Flatness:	± 1.0 dB Max.	0.60 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)	+0.52 dB -0.48 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)	±0.98 dB		
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.	See Typical Characteristics		
11	TSS:	-40 dBm Min.	-44.0 dBm		
12	VSWR:	3.0:1 Max	2.69:1 (See Plot)		
13	Max RF Input:	+ 15 dBm	+15 dBm		
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	2.110 V		
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	37.2 mA 38.8 mA		PMI QA1

\* Please Refer To Excel Test Data Template 2 (ATTACHED)

QA/QC Approval:  PMI QA1 Date: 10/18/19

7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



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

PL26722/1941

## Log Transfer vs. Frequency

LOG TRANSFER WITH FREQUENCY  
MODEL: SDLVA-218-44-70MV  
TESTED BY: J.Emperador  
TEST DATE: 10/07/2019  
SERIAL NO: PL26722  
TEST TEMP: +25C

Monday, October 07, 2019  
1:34 PM



PLANAR MONOLITHICS INDUSTRIES  
7311-F GROVE ROAD, FREDERICK, MD  
21704 USA  
TEL: 301-662-5019 FAX: 301-662-1731  
URL: WWW.PMI-RF.COM

Vos= +7 mV

Frequency

Frequency	Intercept (mV)	Slope (mV/dB)	-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	2120	49.86	150	363	611	863	1109	1376	1647	1874	2110
			25	-12	-13	-10	-14	4	26	4	-10
			0.49	-0.23	-0.26	-0.21	-0.27	0.08	0.52	0.07	-0.20
12 GHz	2103	50.25	113	335	585	841	1086	1350	1623	1856	2095
			20	-9	-11	-6	-12	1	22	4	-8
			0.39	-0.19	-0.21	-0.12	-0.24	0.01	0.44	0.09	-0.16
18 GHz	2068	48.81	114	346	605	860	1085	1345	1601	1827	2045
			-2	-14	1	12	-7	9	21	3	-23
			-0.04	-0.28	0.02	0.25	-0.14	0.18	0.43	0.06	-0.48

RF Input Power (dBm)

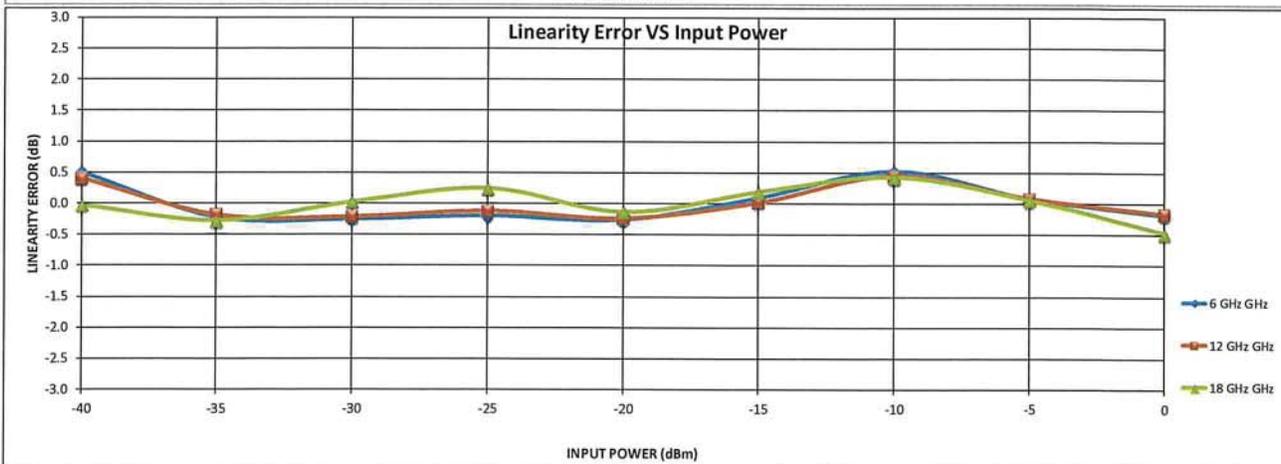
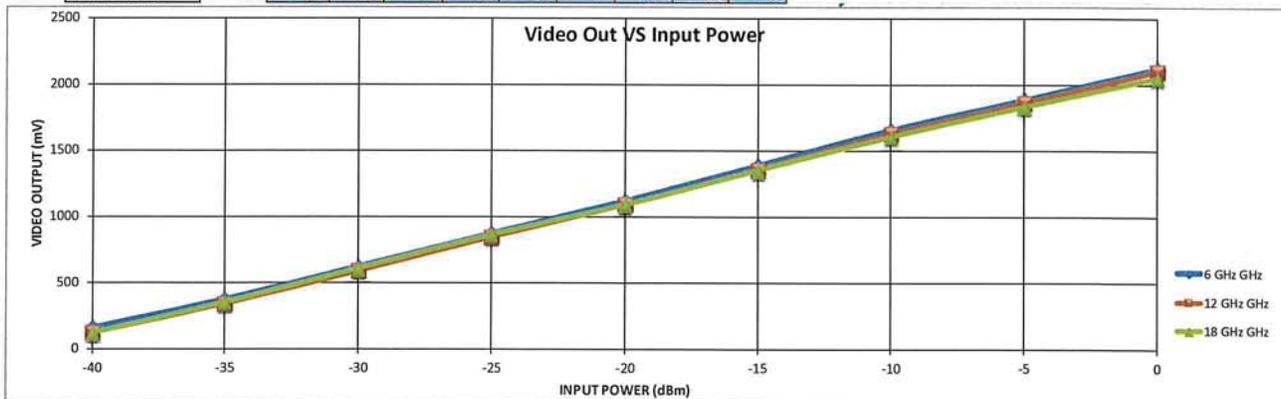
Measured Value (mV)  
Error (mV)  
LINEARITY ERROR (dB)

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

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

Flatness +/-dB

0.4	0.3	0.3	0.2	0.2	0.3	0.5	0.5	0.6
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**SUMMARY TEST DATA  
ON  
PLVA-218-50-618**

PL26722/1941

VSWR @ -20 dBm

Model Number: PLVA-218-50-618  
Serial Number: PL26722  
Date: 10/7/2019

Temperature: +25C

**VSWR GRAPH**

