



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

PL33863

Customer: \_\_\_\_\_ Tested By: RCombs  
SO No: \_\_\_\_\_ Temperature: +25°C  
Model No: PLVA-218-50-618 Date: 09/30/2021  
Serial No: PL33863/2136 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 QA 2	
2	Frequency Flatness:	± 1.0 dB Max.	0.70 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)	± 0.37		
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	49.9 mV/dB (See Plot)		
7	Temperature Stability:	± 1.0 dB Max (-54°C to 85°C)	±0.95 dB		
8	Rise Time:	20 ns Max.	14.2 ns		
9	Settling:	45 ns Max.	43.3 ns		
10	Recovery Time:	150 ns Typ. 300 ns Max.	142 ns		
11	TSS:	-40 dBm Min.	-42 dBm		
12	VSWR:	3.0:1 Max	2.95:1 (See Plot)		
13	Max RF Input:	+ 15 dBm	+15 dBm		
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	0 – 2.5 Volts		
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	43.6 mA 44.8 mA		PMI QA 2

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

QA/QC Approval: \_\_\_\_\_

PMI  
QA 2

Date: \_\_\_\_\_

9/30/2021

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

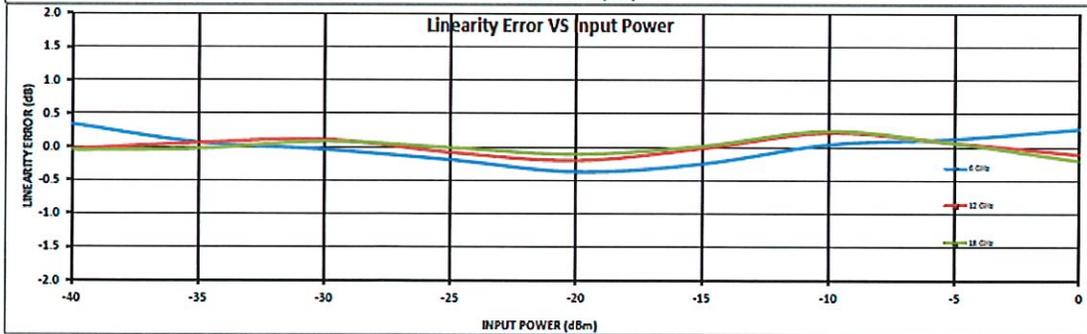
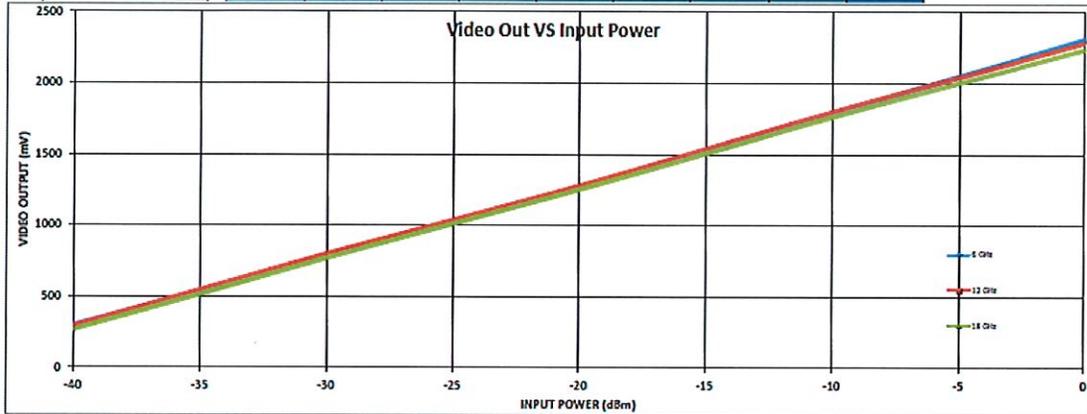
PL33863

### Log Transfer vs. Frequency

MODEL: PLVA-218-50-618  
SERIAL NO: PL33864  
DATE: 09/13/21  
TESTED BY: J. Boze  
Test Temp: +25°C

  
**PLANAR MONOLITHICS  
INDUSTRIES**  
 4621 Robert J. Mathews  
 Parkway Suite 1  
 El Dorado Hills, CA 95762  
 RF Input Power (dBm)

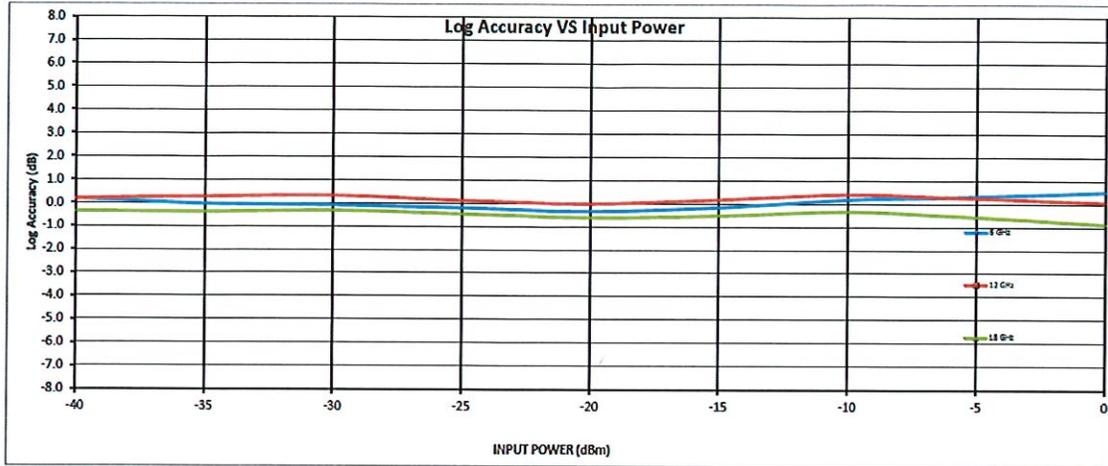
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	
<b>6 GHz</b>	INTERCEPT (mV)	293	531	778	1022	1265	1523	1790	2046	2306	Measured Value (mV)
	SLOPE (mV/dB)	17	3	-2	-10	-19	-13	2	6	14	Error (mV)
		0.34	0.07	-0.04	-0.19	-0.37	-0.25	0.04	0.13	0.27	0.37
<b>12 GHz</b>	INTERCEPT (mV)	292	547	798	1038	1281	1540	1801	2042	2283	Measured Value (mV)
	SLOPE (mV/dB)	-2	3	6	-4	-10	-1	11	3	-5	Error (mV)
		-0.04	0.06	0.11	-0.08	-0.20	-0.02	0.22	0.06	-0.11	0.22
<b>18 GHz</b>	INTERCEPT (mV)	265	514	766	1009	1252	1505	1764	2002	2236	Measured Value (mV)
	SLOPE (mV/dB)	-3	-1	4	0	-5	1	12	3	-10	Error (mV)
		-0.05	-0.03	0.08	-0.01	-0.11	0.02	0.24	0.06	-0.20	0.24
Avg. Slope: 49.9 mV/dB		0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.7	
Flatness dB: ±0.7 dB											





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**VSWR @ -20 dBm**

