



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

PL33865

Customer: _____	Tested By: <u>RCombs</u>
SONo: _____	Temperature: <u>+25°C</u>
Model No: <u>PLVA-218-50-618</u>	Date: <u>09/30/2021</u>
Serial No: <u>PL33865/2136</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 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)	± 0.44	
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	49.8 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.	17.2 ns	
9	Settling:	45 ns Max.	42.2 ns	
10	Recovery Time:	150 ns Typ. 300 ns Max.	156 ns	
11	TSS:	-40 dBm Min.	-42 dBm	
12	VSWR:	3.0:1 Max	2.86:1 (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	48 mA 49 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  
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## SUMMARY TEST DATA ON PLVA-218-50-618

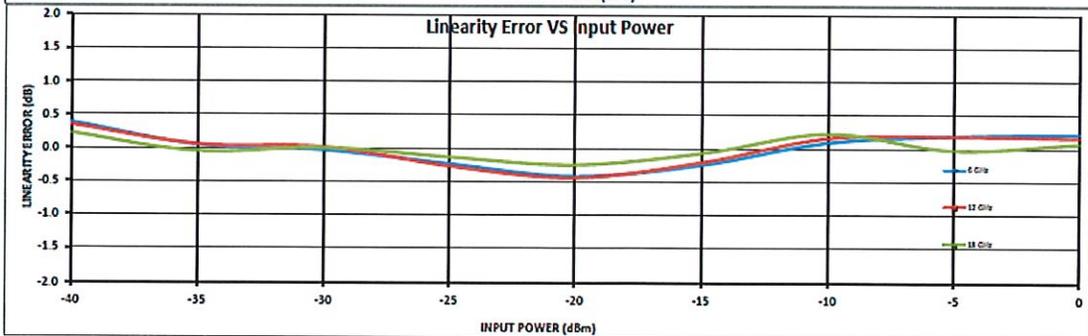
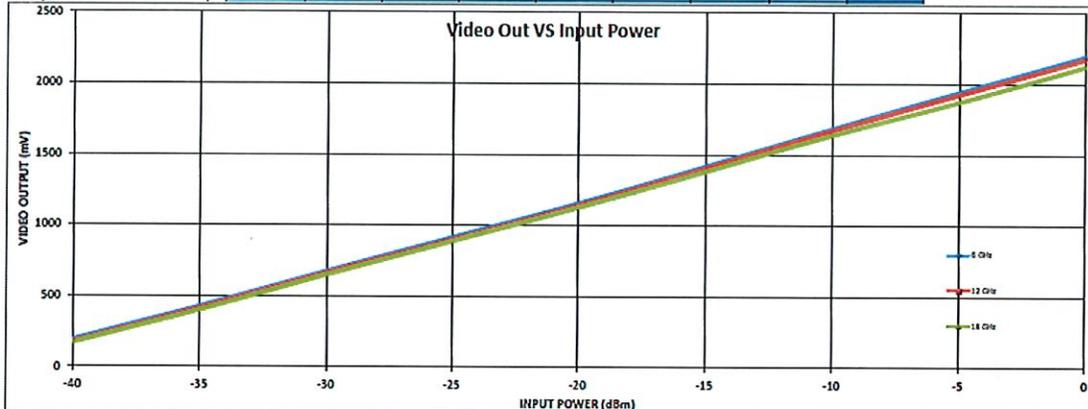
PL33865

### Log Transfer vs. Frequency

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

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

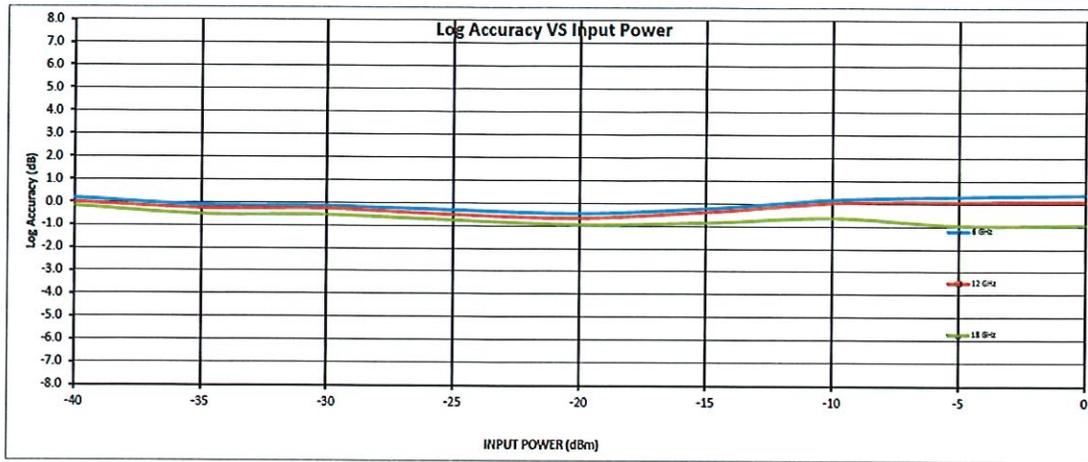
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	
<b>6 GHz</b>	INTERCEPT (mV)	2178									Measured Value (mV)
	SLOPE (mV/dB)	50.3									Error (mV)
		186	421	668	909	1151	1411	1679	1938	2189	0.42
		19	2	-2	-12	-21	-12	5	10	11	
		0.39	0.05	-0.03	-0.24	-0.42	-0.25	0.09	0.19	0.22	
<b>12 GHz</b>	INTERCEPT (mV)	2166									Measured Value (mV)
	SLOPE (mV/dB)	50.1									Error (mV)
		177	413	662	898	1140	1403	1672	1924	2174	0.44
		17	3	1	-14	-22	-11	8	9	8	
		0.35	0.06	0.02	-0.27	-0.44	-0.21	0.16	0.19	0.16	
<b>18 GHz</b>	INTERCEPT (mV)	2119									Measured Value (mV)
	SLOPE (mV/dB)	49									Error (mV)
		169	400	648	887	1126	1380	1640	1873	2123	0.25
		11	-2	0	-7	-12	-4	11	-1	4	
		0.22	-0.05	0.00	-0.14	-0.25	-0.07	0.23	-0.02	0.08	
Avg. Slope: 49.8 mV/dB		0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.6	0.7	
Flatness dB: ±0.7 dB											





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**VSWR @ -20 dBm**

