



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

PL33862

Customer: \_\_\_\_\_ Tested By: RCombs  
 SO No: \_\_\_\_\_ Temperature: +25°C  
 Model No: PLVA-218-50-618 Date: 09/30/2021  
 Serial No: PL33862/2136 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.	0.50 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)	± 0.54 dB	
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	49.5 mV/dB (See Plot)	
7	Temperature Stability:	± 1.0 dB Max (-54°C to 85°C)	±0.98 dB	
8	Rise Time:	20 ns Max.	15.2 ns	
9	Settling:	45 ns Max.	42.3 ns	
10	Recovery Time:	150 ns Typ. 300 ns Max.	164 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 – 2.5 Volts	
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	44 mA 46 mA	PMI QA 2

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

QA/QC Approval:  \_\_\_\_\_ PMI QA 2 Date: 9/30/2021

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 Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)



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

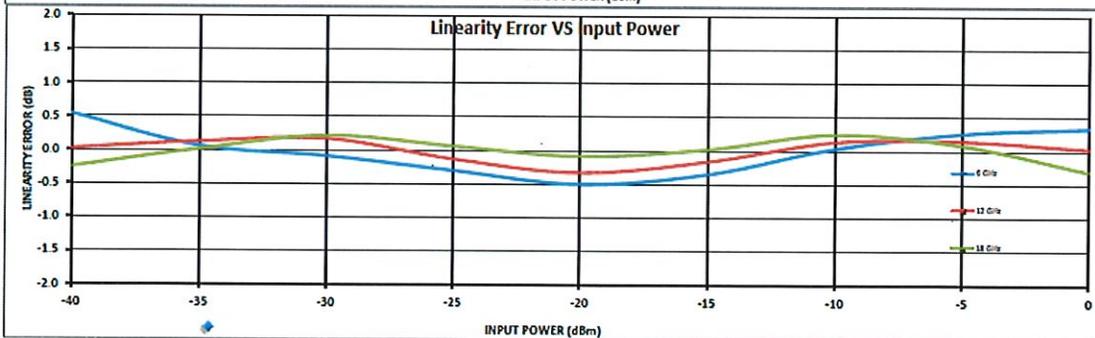
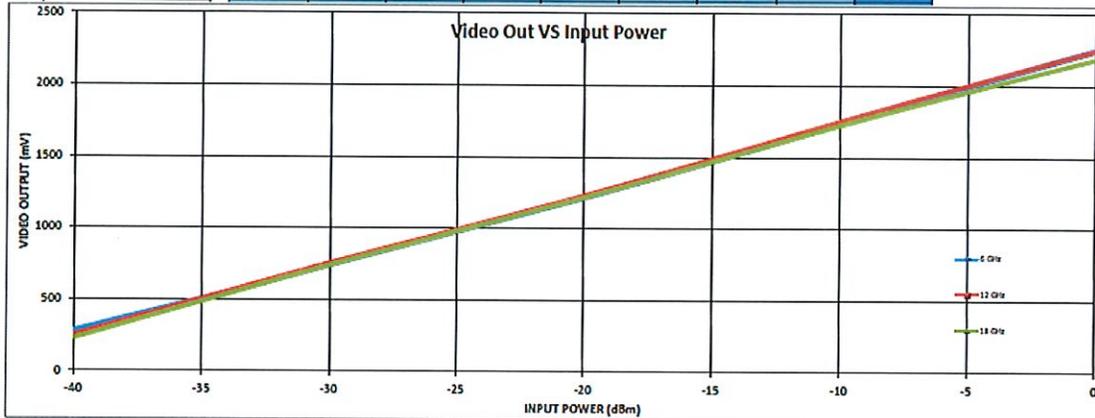
PL33862

## Log Transfer vs. Frequency

MODEL: PLVA-218-50-618  
SERIAL NO: PL33862  
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)

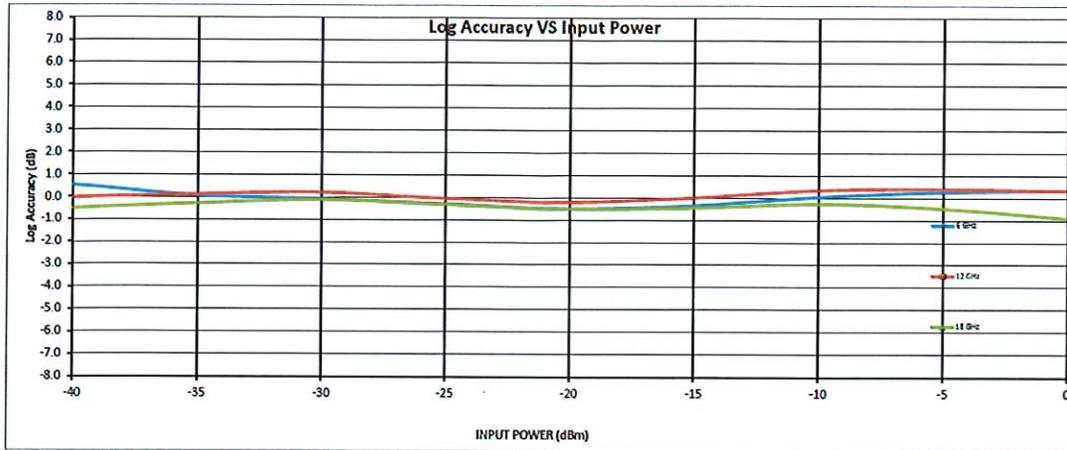
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	
<b>6 GHz</b>	INTERCEPT (mV)	2232									Measured Value (mV)
	SLOPE (mV/dB)	49.5									Error (mV)
		278	502	742	979	1217	1472	1739	1998	2249	0.54
<b>12 GHz</b>	INTERCEPT (mV)	2246									Measured Value (mV)
	SLOPE (mV/dB)	49.9									Error (mV)
		250	504	756	991	1231	1489	1754	2004	2248	0.33
<b>18 GHz</b>	INTERCEPT (mV)	2202									Measured Value (mV)
	SLOPE (mV/dB)	49.1									Error (mV)
		226	484	740	978	1216	1467	1723	1961	2187	0.31
Avg. Slope: 49.5 mV/dB											
Flatness dB: ±0.6 dB											
		0.5	0.2	0.2	0.1	0.1	0.2	0.3	0.4	0.6	





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**VSWR @ -20 dBm**

