



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

PL33864

Customer: _____ Tested By: RCombs
SO No: _____ Temperature: +25°C
Model No: PLVA-218-50-618 Date: 09/30/2021
Serial No: PL33864/2136 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.	0.40 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)	± 0.41		
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	49.7 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.	16.2 ns		
9	Settling:	45 ns Max.	39.3 ns		
10	Recovery Time:	150 ns Typ. 300 ns Max.	155 ns		
11	TSS:	-40 dBm Min.	-42 dBm		
12	VSWR:	3.0:1 Max	2.97:1 (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	45 mA 47 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



SUMMARY TEST DATA ON PLVA-218-50-618

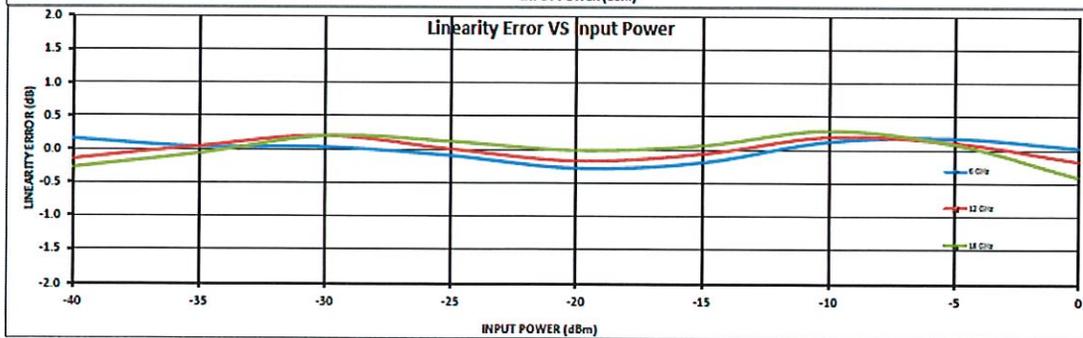
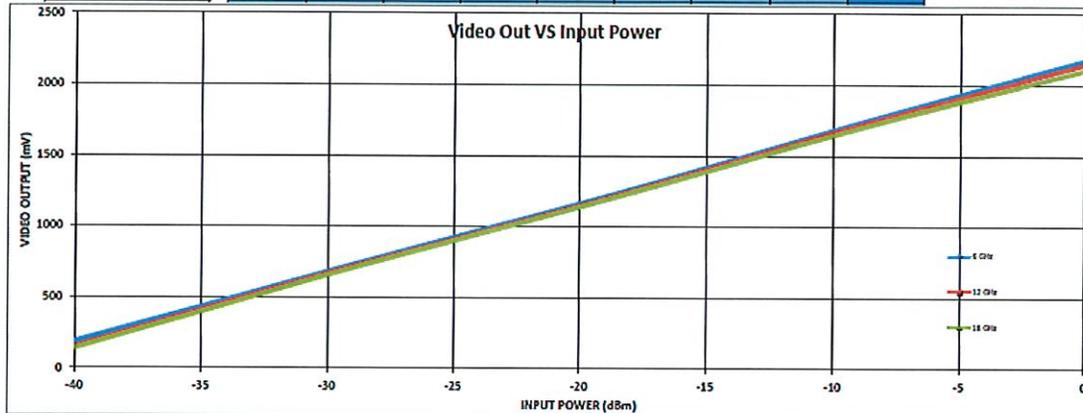
PL33864

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)

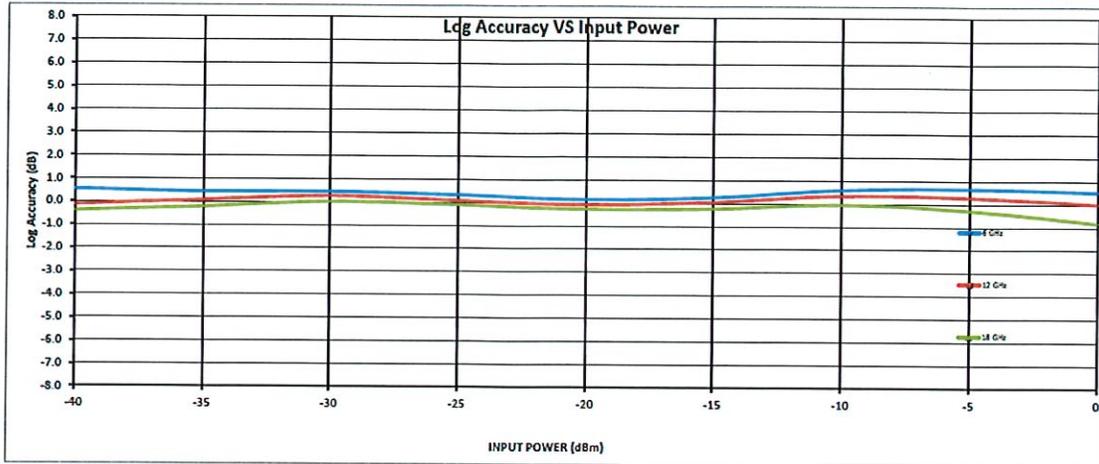
Frequency		-40	-35	-30	-25	-20	-15	-10	-5	0	
6 GHz	INTERCEPT (mV)	185	428	677	920	1159	1413	1677	1929	2171	Measured Value (mV)
	SLOPE (mV/dB)	8	2	2	-5	-14	-10	6	9	2	Error (mV)
		0.16	0.04	0.03	-0.09	-0.28	-0.19	0.13	0.18	0.03	0.28
12 GHz	INTERCEPT (mV)	151	410	668	907	1148	1402	1665	1910	2145	Measured Value (mV)
	SLOPE (mV/dB)	-7	2	10	0	-9	-3	10	5	-9	Error (mV)
		-0.15	0.05	0.20	0.00	-0.17	-0.06	0.20	0.11	-0.17	0.20
18 GHz	INTERCEPT (mV)	139	396	655	898	1138	1388	1646	1882	2104	Measured Value (mV)
	SLOPE (mV/dB)	-14	-3	10	6	0	3	14	4	-20	Error (mV)
		-0.27	-0.06	0.20	0.12	-0.01	0.06	0.29	0.08	-0.41	0.41
Avg. Slope: 49.7 mV/dB		0.5	0.3	0.2	0.2	0.2	0.2	0.3	0.5	0.7	
Flatness dB: ±0.7 dB											





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VSWR @ -20 dBm

