SUMMARY TEST DATA ON PLVA-218-50-618

PL37191/2232

Customer: [redacted]
SO No: [redacted]
Model No: PLVA-218-50-618
Serial No: PL37191/2232
Tested By: J. Boze
Temperature: +25°C
Date: 08/09/2022
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	Frequency Flatness:	± 1.0 dB Max.	**±0.8 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)	**±0.45 dB**	
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	**51.4 mV/dB**	
7	Temperature Stability:	± 1.0 dB Max (-54°C to 85°C)	**±0.66 dB**	
8	Rise Time:	20 ns Max.	**14.5 ns**	
9	Settling:	45 ns Max.	**Pass**	
10	Recovery Time:	150 ns Typ. 300 ns Max.	**200 ns**	
11	TSS:	-40 dBm Min.	**-43 dBm**	
12	VSWR:	3.0:1 Max	**2.90:1 (See Plot)**	
13	Max RF Input:	+ 15 dBm	**+15 dBm**	
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	**0.2 - 2.2 V**	
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	**40 mA 40 mA**	

QA/QC Approval: K. Mueller M Ryan **Date:** 8-9-22

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

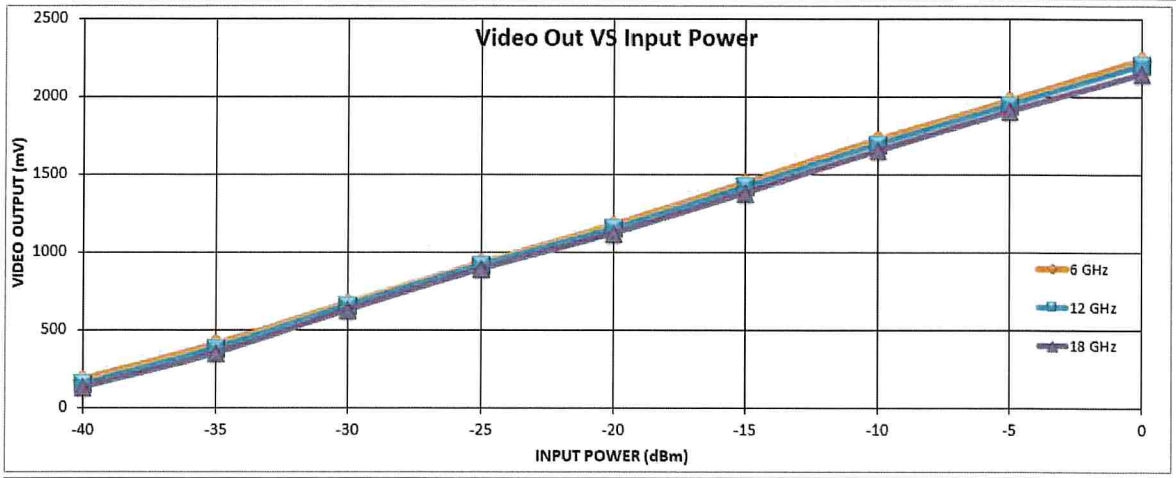
SUMMARY TEST DATA ON PLVA-218-50-618

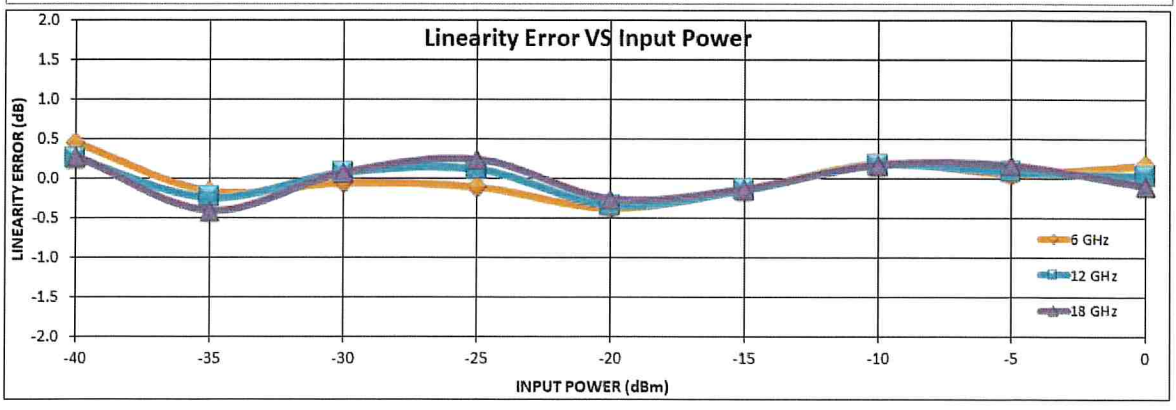
PL37191/2232

Model: PLVA-218-50-618
Serial No: PL37191
Date: 8/5/22
Tested By: J Boze
Test Temp: +25°C

Log Transfer vs. Frequency

Frequency			-40	-35	-30	-25	-20	-15	-10	-5	0	RF Input Power (dBm)
6 GHz	INTERCEPT (mV)	2223	176	403	667	923	1168	1439	1715	1967	2231	Measured Value (mV)
	SLOPE (mV/dB)	51.7	23	-8	-3	-6	-20	-7	10	3	8	Error (mV)
	LIN. ERR. (dB)	0.45	0.45	-0.16	-0.06	-0.11	-0.38	-0.14	0.19	0.06	0.16	Linearity Error (dB)
12 GHz	INTERCEPT (mV)	2197	148	380	654	914	1148	1416	1690	1943	2198	Measured Value (mV)
	SLOPE (mV/dB)	51.5	13	-13	4	6	-18	-7	9	4	1	Error (mV)
	LIN. ERR. (dB)	0.34	0.26	-0.24	0.07	0.12	-0.34	-0.14	0.17	0.08	0.03	Linearity Error (dB)
18 GHz	INTERCEPT (mV)	2149	128	347	626	889	1118	1379	1649	1903	2144	Measured Value (mV)
	SLOPE (mV/dB)	50.9	14	-21	3	12	-13	-7	9	8	-5	Error (mV)
	LIN. ERR. (dB)	0.41	0.28	-0.41	0.07	0.24	-0.26	-0.14	0.17	0.16	-0.10	Linearity Error (dB)
Avg. Slope: 51.4 mV/dB			0.5	0.5	0.4	0.3	0.5	0.6	0.6	0.6	0.8	Flatness: ±0.8 dB





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SUMMARY TEST DATA
ON
PLVA-218-50-618

PL37191/2232

VSWR @ -20 dBm

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