



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

PL29240/2029

Customer: _____ Tested By: J. Emperador
 SO No: _____ Temperature: +25°C
 Model No: PLVA-218-50-618 Date: 07/13/2020
 Serial No: PL29240/2029 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 QA3	
2	Frequency Flatness:	± 1.0 dB Max.	± 0.5 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)	± 0.46 dB		
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	51.13 mV/dB		
7	Temperature Stability:	± 1.0 dB Max (-54°C to 85°C)	+ 0.84 / - 0.96 dB		
8	Rise Time:	20 ns Max.	17 ns		
9	Settling:	45 ns Max.	Pass		
10	Recovery Time:	150 ns Typ. 300 ns Max.	48 ns		
11	TSS:	-40 dBm Min.	-44 dBm		
12	VSWR:	3.0:1 Max	2.34:1 (See Plot)		
13	Max RF Input:	+ 15 dBm	+15 dBm		
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	0.1 - 2.1 V		
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	36.2 mA 38.2 mA		PMI QA3

QA/QC Approval: A Zimmerman Date: 7-15-2020



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

PL29240/2029

Log Transfer vs. Frequency

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-218-44-70MV
TESTED BY: J. Emperador
TEST DATE: 07/10/2020
SERIAL NO: PL29240
TEST TEMP: +25C



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD
21704 USA
TEL: 301-662-5019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM

Frequency

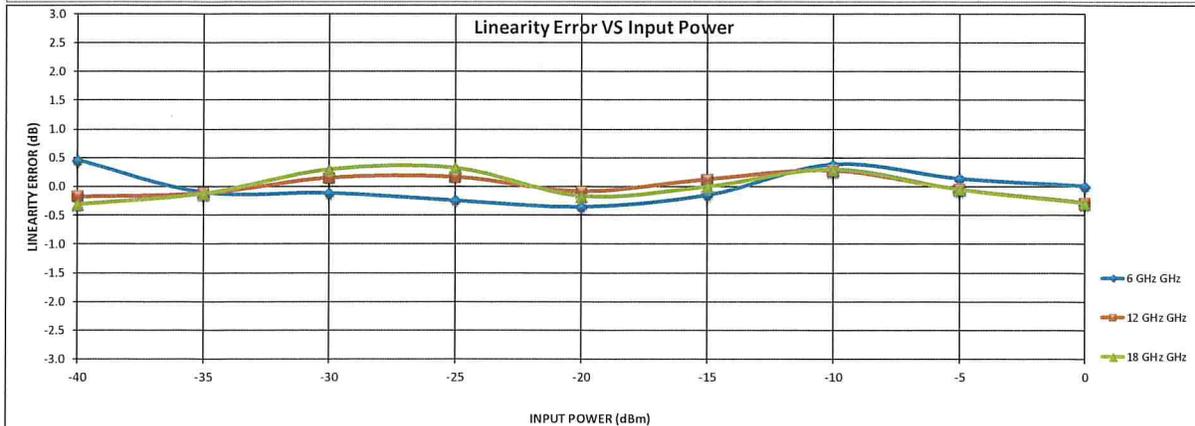
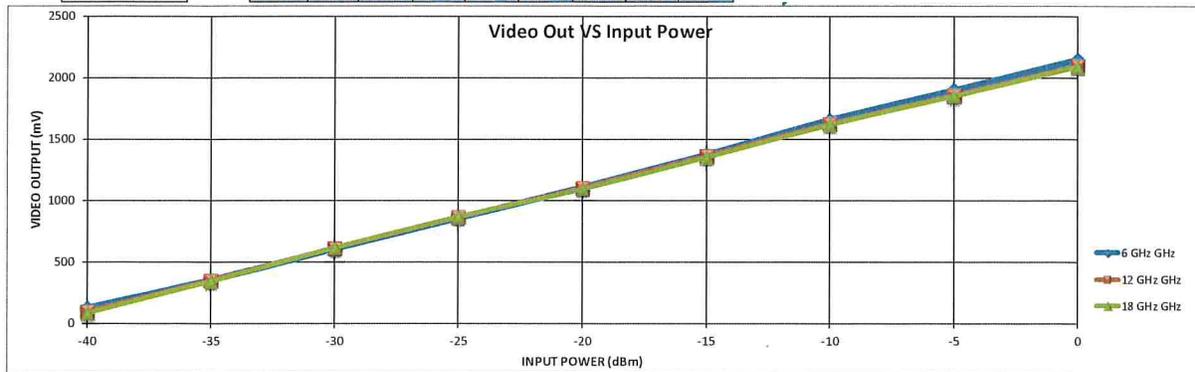
			-40	-35	-30	-25	-20	-15	-10	-5	0
6 GHz	INTERCEPT (mV)	2144	122	349	604	853	1103	1369	1652	1895	2144
	SLOPE (mV/dB)	51.13	23	-5	-6	-13	-18	-8	20	7	0
			0.46	-0.10	-0.12	-0.25	-0.36	-0.15	0.38	0.13	0.00
12 GHz	INTERCEPT (mV)	2107	95	348	612	863	1101	1362	1620	1854	2093
	SLOPE (mV/dB)	50.08	-9	-6	8	8	-4	6	14	-3	-14
			-0.17	-0.12	0.15	0.16	-0.09	0.12	0.28	-0.05	-0.28
18 GHz	INTERCEPT (mV)	2104	83	343	615	867	1093	1352	1618	1851	2090
	SLOPE (mV/dB)	50.14	-15	-6	15	16	-8	0	15	-2	-14
			-0.31	-0.12	0.30	0.33	-0.17	0.00	0.30	-0.05	-0.28
Flatness +/-dB			0.4	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5

RF Input Power (dBm)

Measured Value (mV)
Error (mV)
0.46

Measured Value (mV)
Error (mV)
0.28

Measured Value (mV)
Error (mV)
0.33



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**

PL29240/2029

VSWR @ -20 dBm

