SUMMARY TEST DATA
ON
PLVA-218-50-618

PL47869/2437

Customer: _____ **Tested By:** Daniel Weinrob
SO No: _____ **Temperature:** +25°C
Model No: PLVA-218-50-618 **Date:** 09/11/2024
Serial No: PL47869/2437 **Drawing No:** 27618591 **Rev:** B1

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC PMI QA3
1	Frequency Range:	6 GHz – 18 GHz	**6 GHz – 18 GHz**	
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)	**± 0.55 dB**	
6	Log Slope: (Log Slope Accuracy)	50mV/dB (±4% of Average Slope)	**Pass (See Plot)**	
7	Temperature Stability:	± 1.0 dB Max (-54°C to 85°C)	**See Typical Characteristics**	
8	Rise Time:	20 ns Max.	**See Typical Characteristics**	
9	Settling:	45 ns Max.	**See Typical Characteristics**	
10	Recovery Time:	150 ns Typ. 300 ns Max.	**<300 nS**	
11	TSS:	-40 dBm Min.	**-43 dBm**	
12	VSWR:	3.0:1 Max	**2.49:1 (See Plot)**	
13	Max RF Input:	+ 15 dBm	**+ 15 dBm**	
14	Video Output Level:	0 – 2.5 Volts (50Ω Minimum Load)	**Pass (See Plot)**	
15	DC Supply:	+15V @ 75 mA Max -15V @ 75 mA Max	**50 mA 50 mA**	

QA/QC Approval: K. Klamm **Date:** 9-18-24

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

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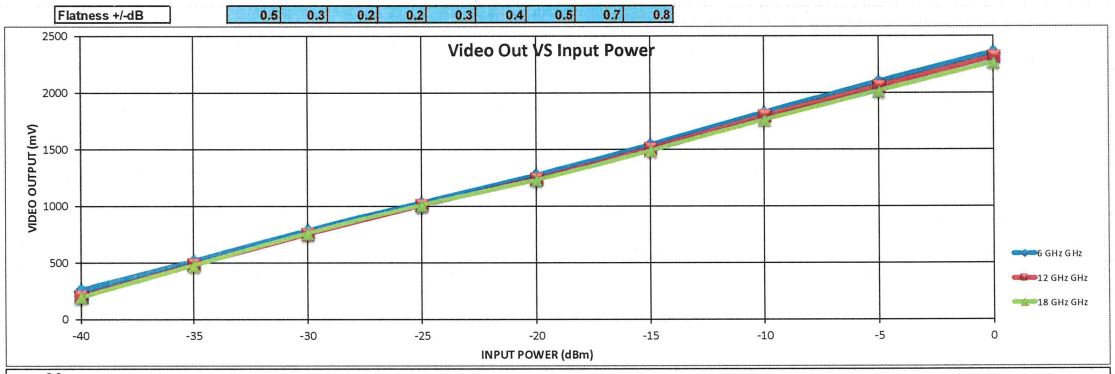
Log Transfer vs. Frequency

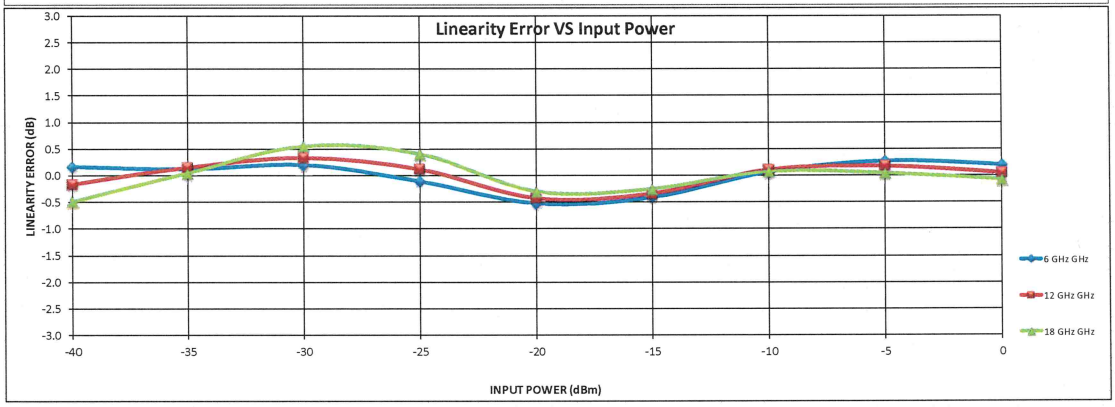
LOG TRANSFER WITH FREQUENCY
MODEL: PLVA-218-50-618
TESTED BY: D. Weinrob
TEST DATE: 9/3/24
SERIAL NO: PL47869
TEST TEMP: +25C

Tuesday, September 10, 2024
1:07 PM

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	RF Input Power (dBm)
6 GHz	INTERCEPT (mV)	2337	249	509	775	1021	1261	1529	1816	2089	2347	Measured Value (mV)
	SLOPE (mV/dB)	52.41	9	7	11	-5	-27	-21	3	14	10	Error (mV)
			0.17	0.13	0.20	-0.10	-0.52	-0.41	0.07	0.28	0.20	LINEARITY ERROR (dB)
12 GHz	INTERCEPT (mV)	2308	200	479	751	1002	1236	1503	1789	2055	2311	Measured Value (mV)
	SLOPE (mV/dB)	52.5	-9	8	18	6	-22	-18	6	9	3	Error (mV)
			-0.16	0.15	0.33	0.12	-0.43	-0.34	0.11	0.17	0.05	LINEARITY ERROR (dB)
18 GHz	INTERCEPT (mV)	2268	192	476	758	1007	1227	1486	1759	2014	2264	Measured Value (mV)
	SLOPE (mV/dB)	51.28	-25	3	28	21	-16	-13	4	2	-4	Error (mV)
			-0.49	0.05	0.55	0.41	-0.30	-0.25	0.07	0.04	-0.08	LINEARITY ERROR (dB)
Flatness +/-dB			0.5	0.3	0.2	0.2	0.3	0.4	0.5	0.7	0.8	





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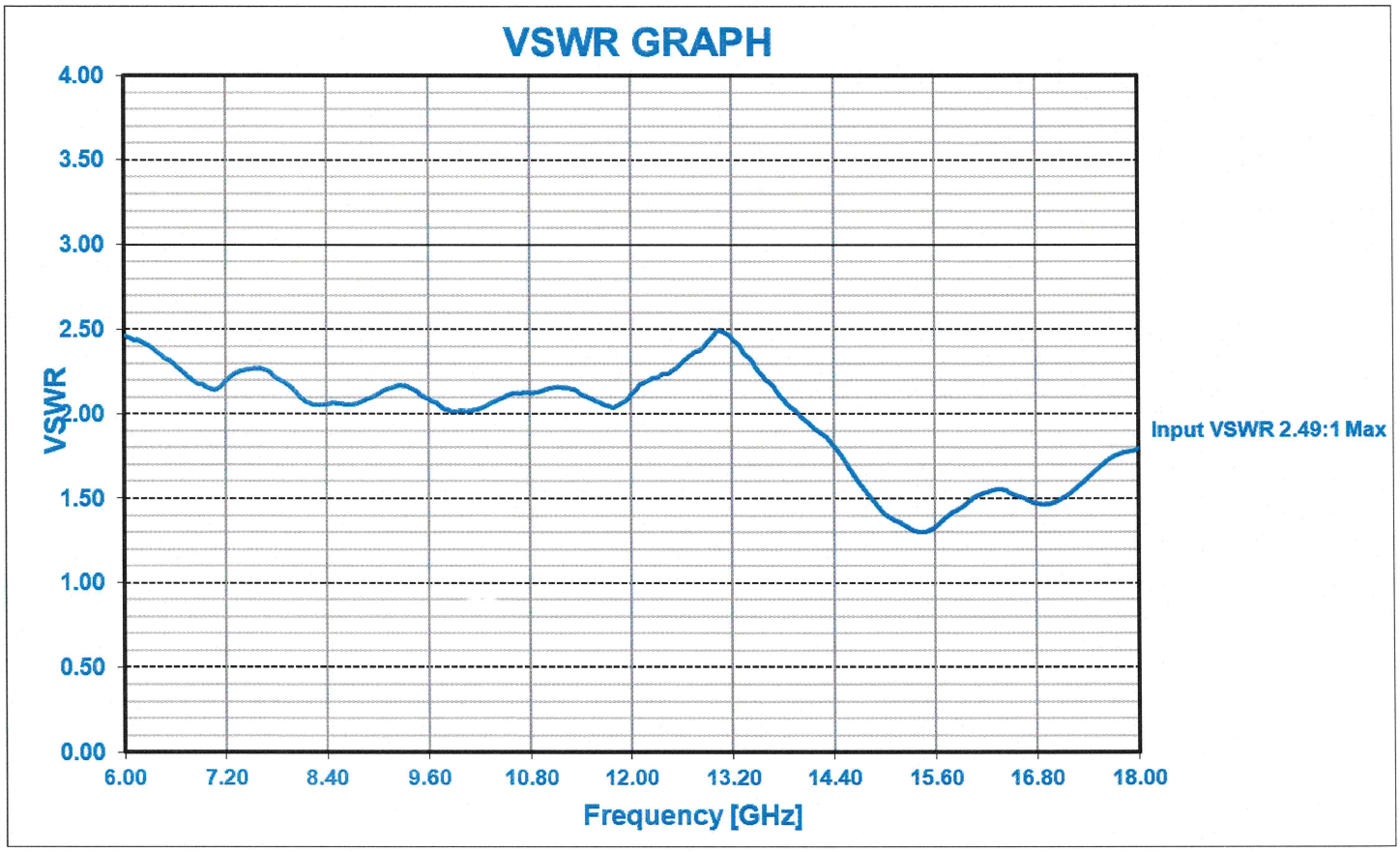
Return Loss @ -20 dBm



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