SUMMARY TEST DATA
ON
SDLVA-0120-70-CONDOR

Customer:		**Tested By:**	D. Weinrob
SO No:		**Temperature:**	+25°C
Model No:	SDLVA-0120-70-CONDOR	**Date:**	07/29/2024
Serial No:	PL47096/2431	**Drawing No:**	27608414 **Rev:** A1

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	FREQUENCY RANGE:	750 MHz TO 1250 MHz	**750 MHz TO 1250 MHz**	PMI QA3
2	DYNAMIC RANGE:	70 dBm MINIMYM, 75 dBm TYPICAL	**70 dBm**	
3	LOG LINEARITY:	±2.5 dB MAXIMUM @ 1 GHz	**0.53 dB See Plot**	
4	MINIMUM LOGGING RANGE:	-60 dBm MINIMUM, -65 dBm TYPICAL	**-65 dBm See Plot**	
5	MAXIMUM LOGGING RANGE:	+5 dBm MINIMUM +8 dBm TYPICAL	**+5 dBm See Plot**	
6	VSWR:	1.8:1 MAX (INPUT) 2.5:1 MAX (OUTPUT)	**1.19:1 < 2.5:1 See Plot**	
7	TANGENTIAL SENSITIVITY:	-65 dBm MINIMUM, -70 dBm TYPICAL	**-68.5 dBm**	
8	LIMITED IF OUTPUT:	-6 dBm NOMINAL, ±2.5 db MAXIMUM	**-6.57 dBm**	
9	MAXIMUM RF INPUT POWER:	+10 dBm	**PASS**	
10	OUTPUT COUPLING:	DC	**PASS**	
11	MAXIMUM OUTPUT VOLTAGE:	2.7 VOLTS	**PASS**	
12	RISE TIME:	25 ns MAXIMUM	**14.2 ns**	
13	FALL TIME:	30 ns MAXIMUM	**22.5 ns**	

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14	SETTLING TIME:	40 ns MAXIMUM	**23 ns**	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	**PASS**	
16	SLOPE:	25 mV/dB NOMINAL ±5 mV/dB	**25.9 mV/dB See Plot**	
17	LOG SLOPE VARIATION WITH FREQUENCY:	±0.5 mV/dB TYPICAL (OVER 80 MHz RF BANDWIDTH)	**< ±0.5 mV/dB**	
18	LOG SLOPE VARIATION WITH TEMPERATURE:	±1 mV/dB TYPICAL	**< ±1 mV/dB**	
19	PROPAGATION DELAY:	7 ns TYPICAL, 10 ns MAXIMUM	**7 ns**	
20	VIDEO LOAD:	100 Ω ± 10%	**PASS**	
21	DC POWER SUPPLY :	+10V TO +16.5V @ 200mA MAX* -10V TO -16.5V @ 200mA MAX	**90 mA** **150 mA**	

***NOTE: DO NOT SUPPLY +V WITHOUT -V SUPPLIED AS WELL AS THIS MAY DESTROY THE UNIT**

QA/QC APPROVAL: K. Hutton **DATED:** 7.29.24

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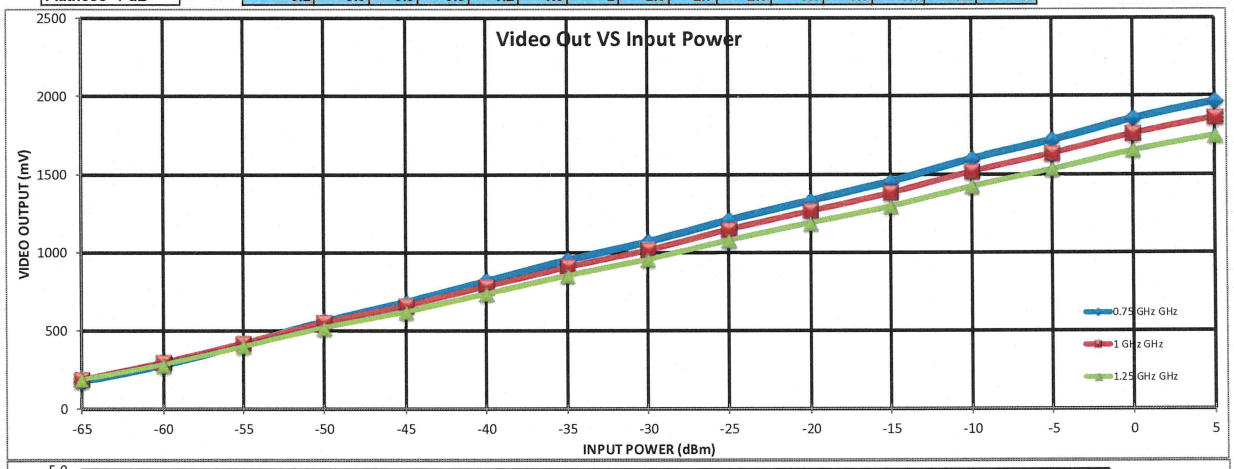
SUMMARY TEST DATA ON SDLVA-0120-70-CONDOR

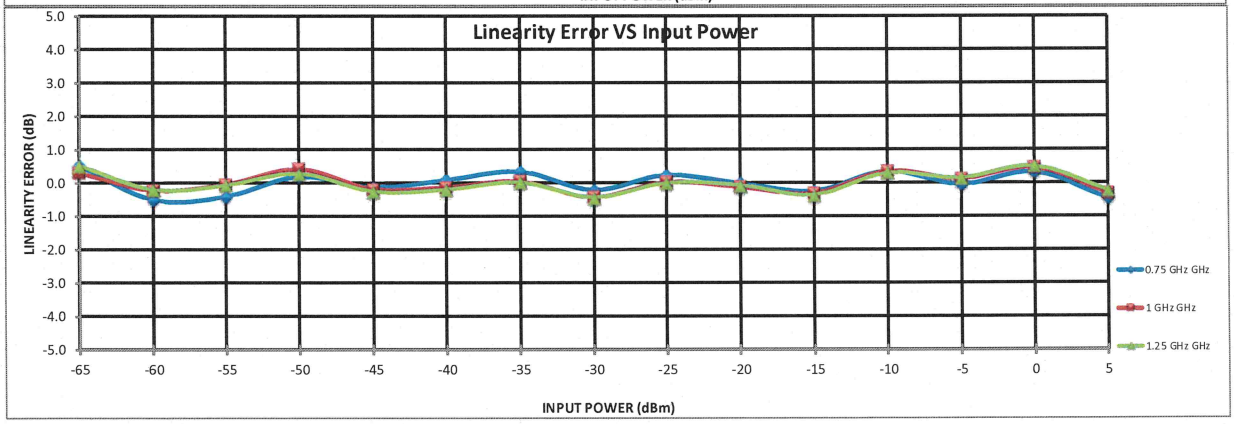
LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-0120-70-CONDOR
TESTED BY: D. Weinrob
TEST DATE: 07/16/2024
SERIAL NO: PL47096
TEST TEMP: +25C

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			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.75 GHz	INTERCEPT (mV)	1847	178	281	413	558	679	814	950	1065	1206	1329	1452	1597	1716	1855	1964	Measured Value (mV)
	SLOPE (mV/dB)	25.9	13	-13	-11	5	-3	2	9	-5	6	0	-7	9	-1	8	-12	Error (mV)
			0.51	-0.51	-0.41	0.19	-0.13	0.09	0.34	-0.21	0.24	-0.01	-0.25	0.35	-0.05	0.32	-0.46	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	1751	189	297	422	554	660	782	907	1016	1148	1265	1381	1518	1633	1762	1864	Measured Value (mV)
	SLOPE (mV/dB)	24.1	7	-5	-1	10	-4	-3	1	-11	1	-3	-8	9	3	11	-7	Error (mV)
			0.31	-0.22	-0.04	0.43	-0.18	-0.13	0.05	-0.44	0.03	-0.12	-0.32	0.36	0.12	0.47	-0.31	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	1641	188	284	400	521	621	735	853	955	1078	1189	1295	1423	1532	1653	1749	Measured Value (mV)
	SLOPE (mV/dB)	22.5	12	-5	-1	7	-6	-5	1	-10	0	-2	-8	7	3	12	-5	Error (mV)
			0.53	-0.21	-0.06	0.30	-0.26	-0.20	0.03	-0.45	0.01	-0.07	-0.37	0.31	0.15	0.51	-0.23	LINEARITY ERROR (dB)

Flatness +/-dB	0.2	0.3	0.5	0.8	1.2	1.6	2	2.3	2.7	2.9	3.3	3.6	3.8	4.2	4.5





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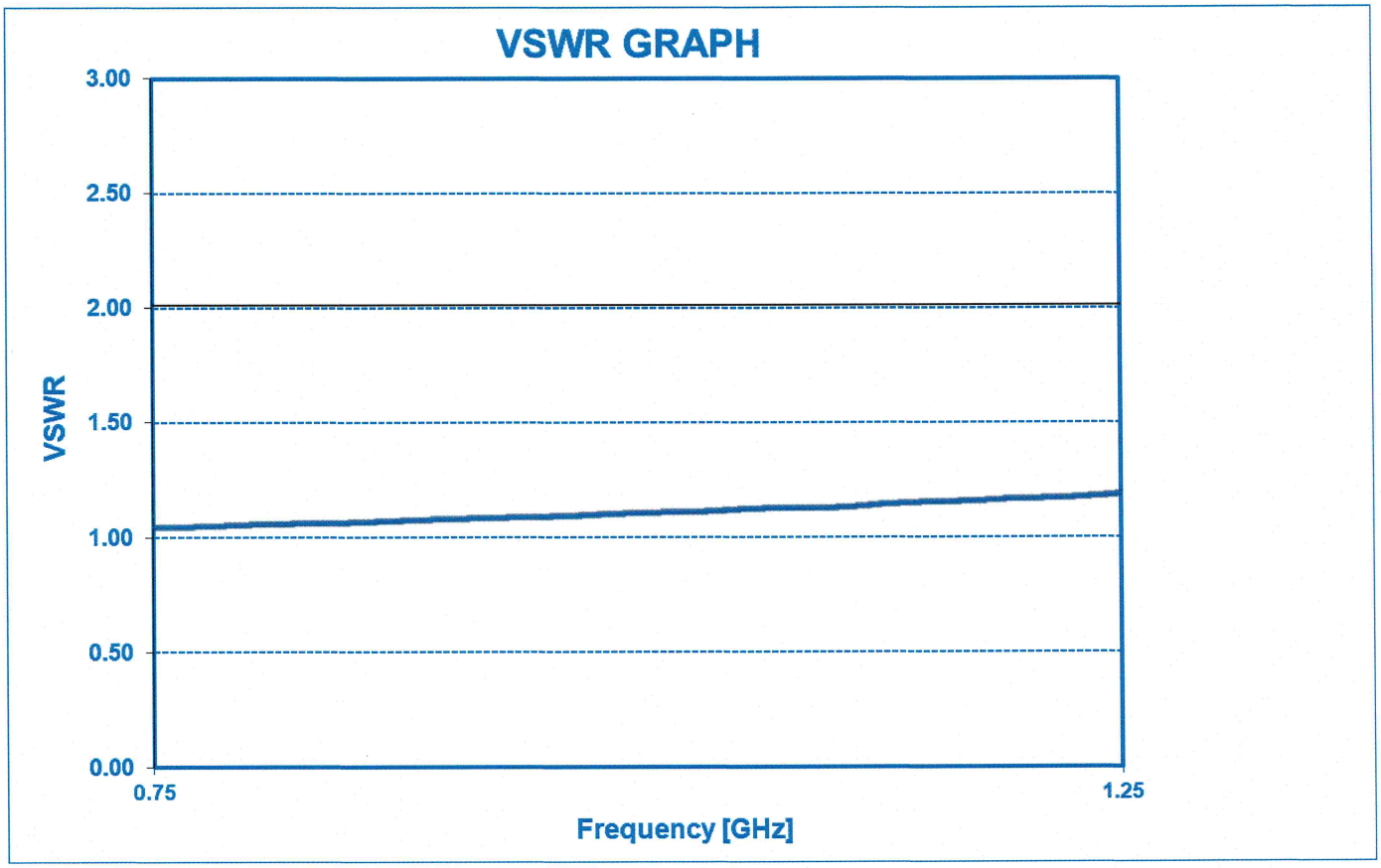

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