



**SUMMARY TEST DATA
ON
SDLVA-0120-70-CONDOR**

Customer: PL47097/2431
 SO No: PL47097/2431
 Model No: SDLVA-0120-70-CONDOR
 Serial No: PL47097/2431

Tested By: D. Weinrob
 Temperature: +25°C
 Date: 07/29/2024
 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 MINIMUM, 75 dBm TYPICAL	70 dBm	
3	LOG LINEARITY:	±2.5 dB MAXIMUM @ 1 GHz	-0.56 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)	1.18:1 < 2.5:1 See Plot	
7	TANGENTIAL SENSITIVITY:	-65 dBm MINIMUM, -70 dBm TYPICAL	-66.5 dBm	
8	LIMITED IF OUTPUT:	-6 dBm NOMINAL, ±2.5 db MAXIMUM	-7.17 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	14.5 ns	
13	FALL TIME:	30 ns MAXIMUM	21.8 ns	



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14	SETTLING TIME:	40 ns MAXIMUM	31 ns	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	PASS	
16	SLOPE:	25 mV/dB NOMINAL ± 5 mV/dB	26.1 mV/dB See Plot	
17	LOG SLOPE VARIATION WITH FREQUENCY:	± 0.5 mV/dB TYPICAL (OVER 80 MHz RF BANDWIDTH)	$< \pm 0.5$ mV/dB	
18	LOG SLOPE VARIATION WITH TEMPERATURE:	± 1 mV/dB TYPICAL	$< \pm 1$ mV/dB	
19	PROPAGATION DELAY:	7 ns TYPICAL, 10 ns MAXIMUM	7 ns	
20	VIDEO LOAD:	100 $\Omega \pm 10\%$	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. Luter

DATED: 7.29.24



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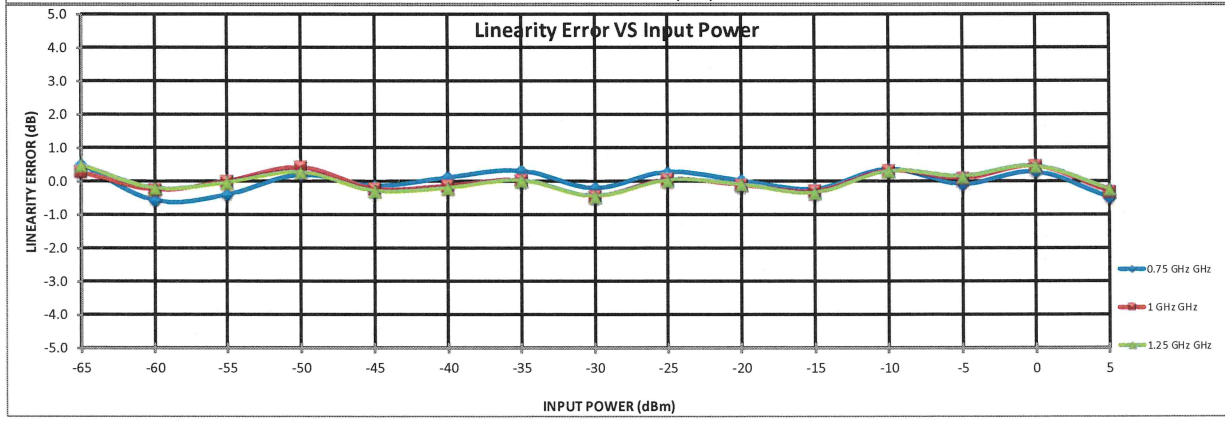
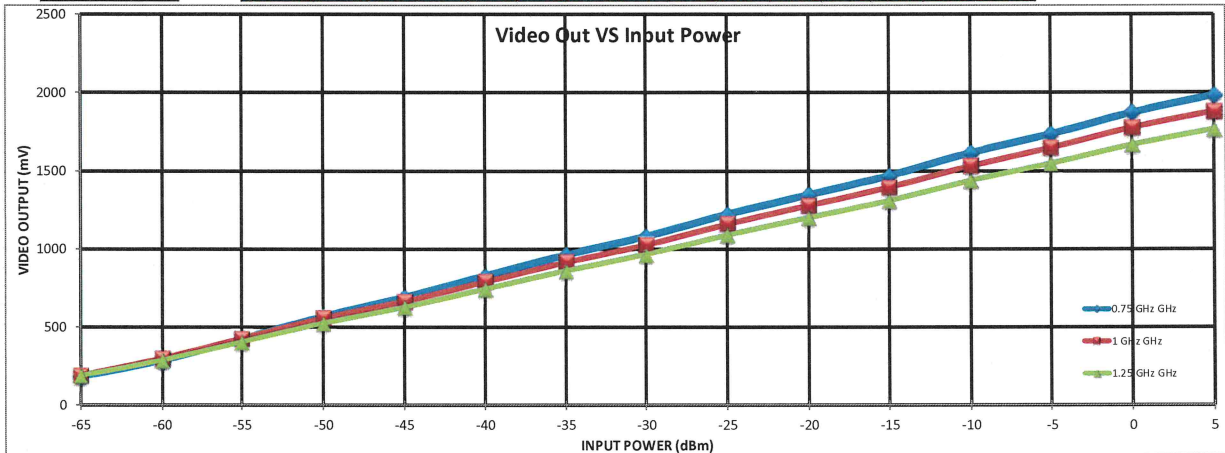
LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-0120-70-CONDOR
 TESTED BY: D. Weinrob
 TEST DATE: 07/15/2024
 SERIAL NO: PL47097
 TEST TEMP: +25C



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

Frequency	Intercept (mV)	Slope (mV/dB)	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.75 GHz	1866	26.1	181	284	419	565	687	824	960	1077	1220	1344	1468	1614	1733	1873	1984	Measured Value (mV)
			13	-15	-10	5	-3	3	8	-5	7	1	-6	9	-2	7	-12	Error (mV)
			0.49	-0.56	-0.39	0.20	-0.13	0.11	0.32	-0.20	0.28	0.02	-0.23	0.36	-0.08	0.28	-0.47	LINEARITY ERROR (dB)
1 GHz	1769	24.4	192	301	429	561	667	791	917	1027	1161	1279	1396	1533	1649	1780	1883	Measured Value (mV)
			7	-6	0	10	-5	-3	1	-11	1	-2	-7	8	2	11	-7	Error (mV)
			0.28	-0.24	0.01	0.43	-0.22	-0.13	0.04	-0.44	0.06	-0.10	-0.29	0.33	0.09	0.47	-0.30	LINEARITY ERROR (dB)
1.25 GHz	1658	22.8	189	287	405	526	627	743	862	965	1090	1201	1309	1438	1548	1669	1767	Measured Value (mV)
			11	-5	-1	7	-6	-4	1	-10	1	-2	-8	7	3	11	-5	Error (mV)
			0.49	-0.21	-0.03	0.29	-0.28	-0.19	0.04	-0.44	0.05	-0.08	-0.34	0.32	0.15	0.46	-0.23	LINEARITY ERROR (dB)
Flatness +/-dB			0.2	0.3	0.5	0.8	1.2	1.7	2	2.3	2.7	2.9	3.3	3.6	3.8	4.2	4.5	





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