



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

PL37428/2231

Customer: _____
 SO No: _____
 Model No: SDLVA-0120-70-CONDOR
 Serial No: PL37428/2231

Tested By: J. Emperador
 Temperature: +25°C
 Date: 08/03/22
 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	+0.46,-0.36 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 2.28:1 See Plot	
7	TANGENTIAL SENSITIVITY:	-65 dBm MINIMUM, -70 dBm TYPICAL	-68 dBm	
8	LIMITED IF OUTPUT:	-6 dBm NOMINAL, ±2.5 db MAXIMUM	-4.67 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	11.5 ns	
13	FALL TIME:	30 ns MAXIMUM	17.0 ns	



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14	SETTLING TIME:	40 ns MAXIMUM	25 ns	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	PASS	
16	SLOPE:	25 mV/dB NOMINAL ± 5 mV/dB	22.9 mV/dB	
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	70 mA 150 mA	

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

QA/QC APPROVAL: K. Mortensen DATED: 8-5-22



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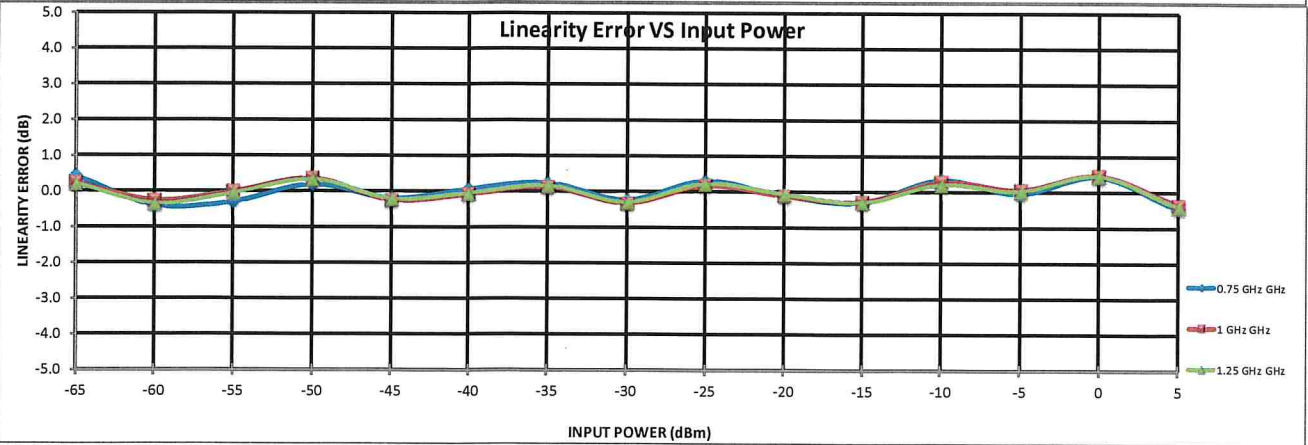
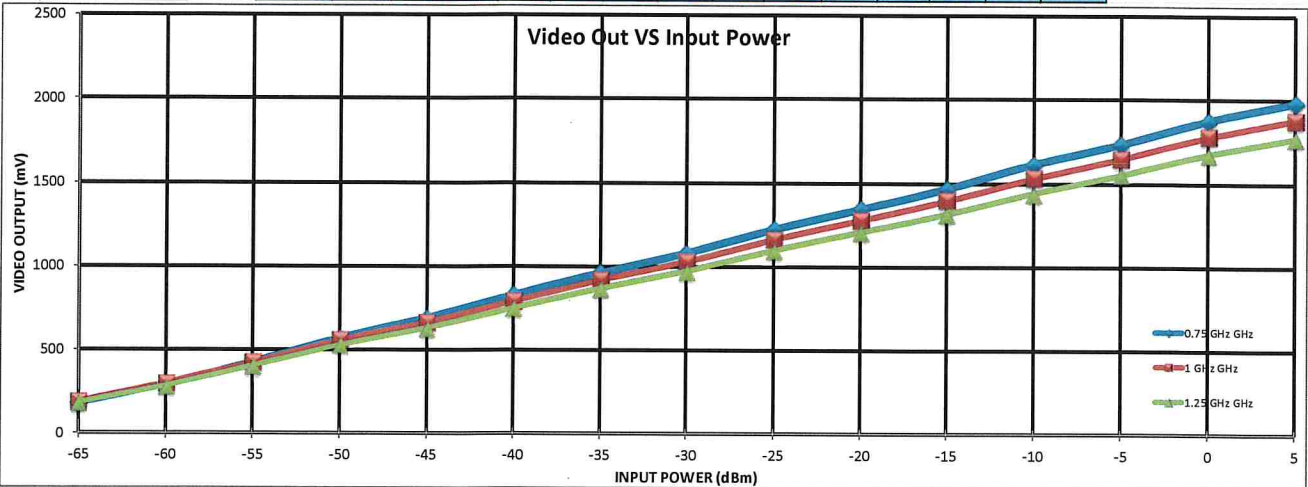
LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-0120-70-CONDOR
TESTED BY: JEmperador
TEST DATE: 08/02/2022
SERIAL NO: PL37428
TEST TEMP: +25C



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)	1867	184	293	426	569	689	826	961	1079	1223	1343	1468	1615	1735	1878	1985	Measured Value (mV)
	SLOPE (mV/dB)	26.1	11	-10	-8	5	-5	2	6	-6	8	-2	-8	9	-1	11	-12	Error (mV)
			0.42	-0.39	-0.29	0.20	-0.20	0.06	0.24	-0.23	0.30	-0.10	-0.30	0.34	-0.05	0.44	-0.46	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	1771	191	301	429	560	667	793	920	1031	1165	1280	1398	1534	1650	1782	1884	Measured Value (mV)
	SLOPE (mV/dB)	24.4	6	-6	0	9	-6	-2	3	-8	4	-3	-7	7	1	11	-9	Error (mV)
			0.24	-0.25	-0.01	0.36	-0.25	-0.08	0.12	-0.33	0.17	-0.12	-0.28	0.29	0.05	0.46	-0.36	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	1664	182	284	405	528	630	748	867	971	1097	1205	1314	1440	1550	1674	1769	Measured Value (mV)
	SLOPE (mV/dB)	22.9	5	-8	-1	8	-5	-1	4	-7	5	-1	-7	5	1	10	-9	Error (mV)
			0.21	-0.33	-0.04	0.34	-0.20	-0.04	0.16	-0.29	0.22	-0.06	-0.29	0.22	0.03	0.45	-0.40	LINEARITY ERROR (dB)
Flatness +/-dB			0.2	0.3	0.5	0.8	1.2	1.6	1.9	2.2	2.6	2.8	3.2	3.6	3.8	4.2	4.4	





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Model Number: SDLVA-0120-70-CONDOR
Serial Number: PL25976

Temperature: +25C

VSWR GRAPH

