



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

PL37427/2231

Customer: _____
 SO No: _____
 Model No: SDLVA-0120-70-CONDOR
 Serial No: PL37427/2231

Tested By: J. Emperor
 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 QA
2	DYNAMIC RANGE:	70 dBm MINIMUM, 75 dBm TYPICAL	70 dBm	
3	LOG LINEARITY:	±2.5 dB MAXIMUM @ 1 GHz	+0.48,-0.47 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)	1.10:1 2.12:1 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	11.8 ns	
13	FALL TIME:	30 ns MAXIMUM	16.0 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	22.7 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. Norton DATED: 8-5-22



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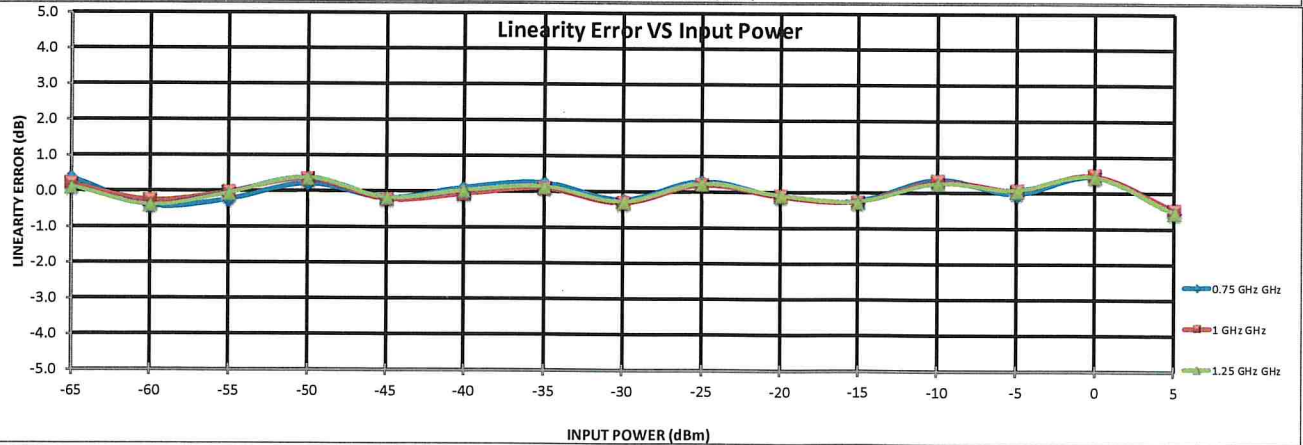
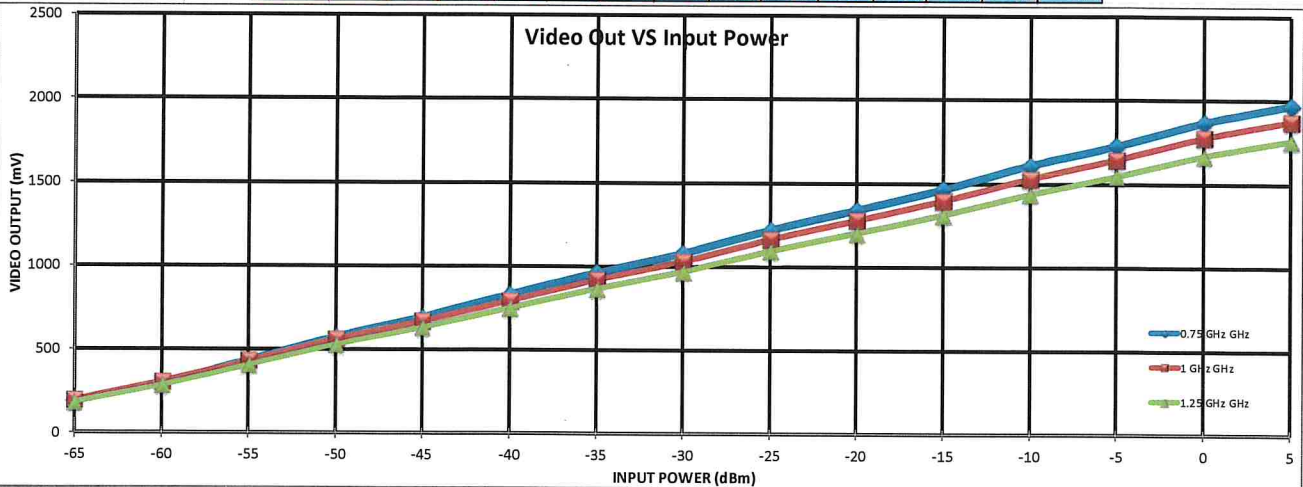
LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-0120-70-CONDOR
 TESTED BY: JEmperador
 TEST DATE: 08/02/2022
 SERIAL NO: PL37427
 TEST TEMP: +25C



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)	187	296	430	571	690	827	960	1077	1220	1339	1465	1610	1729	1871	1975	Measured Value (mV)
	SLOPE (mV/dB)	10	-11	-6	5	-5	3	6	-6	7	-3	-6	9	-1	12	-14	Error (mV)
		0.37	-0.42	-0.24	0.21	-0.19	0.10	0.24	-0.24	0.29	-0.11	-0.24	0.36	-0.04	0.45	-0.53	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	194	304	431	561	668	793	918	1029	1163	1276	1394	1529	1644	1775	1873	Measured Value (mV)
	SLOPE (mV/dB)	5	-6	0	9	-6	-2	2	-8	5	-3	-6	8	2	12	-11	Error (mV)
		0.20	-0.26	-0.01	0.35	-0.23	-0.07	0.09	-0.32	0.21	-0.12	-0.25	0.32	0.07	0.48	-0.47	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	184	286	407	530	631	749	865	969	1094	1200	1310	1435	1544	1666	1757	Measured Value (mV)
	SLOPE (mV/dB)	3	-8	-1	9	-4	1	3	-6	5	-2	-5	6	2	10	-12	Error (mV)
		0.13	-0.37	-0.04	0.38	-0.17	0.03	0.15	-0.27	0.24	-0.09	-0.24	0.27	0.07	0.45	-0.54	LINEARITY ERROR (dB)
Flatness +/-dB		0.2	0.4	0.5	0.8	1.2	1.6	2	2.2	2.6	2.9	3.2	3.6	3.8	4.2	4.5	





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

Temperature: +25C

VSWR GRAPH

