



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

Customer: _____
 SO No: _____
 Model No: SDLVA-0120-70-CONDOR
 Serial No: PL47095/2431

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	0.59 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)	1.1:1 < 2.5:1 See Plot	
7	TANGENTIAL SENSITIVITY:	-65 dBm MINIMUM, -70 dBm TYPICAL	-67 dBm	
8	LIMITED IF OUTPUT:	-6 dBm NOMINAL, ±2.5 db MAXIMUM	-5.17 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	16.2 ns	
13	FALL TIME:	30 ns MAXIMUM	23.5 ns	



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14	SETTLING TIME:	40 ns MAXIMUM	19 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)	$< \pm 0.5$ 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. Hiltner

DATED: 7-29-24



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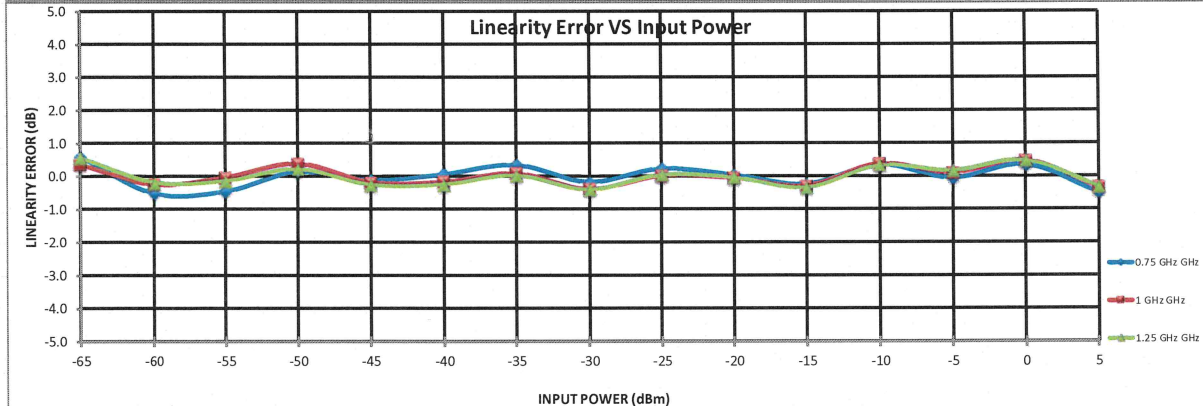
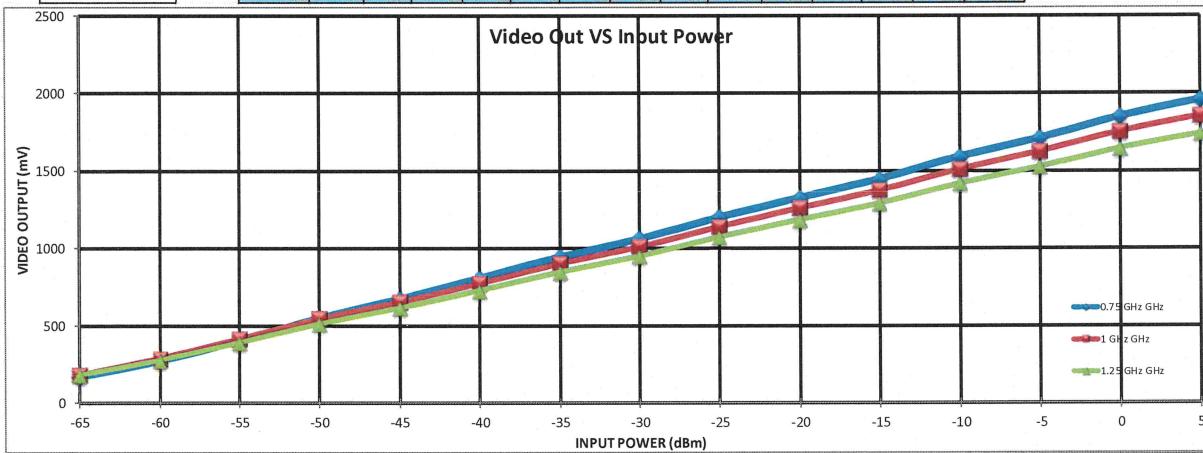
LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-0120-70-CONDOR
 TESTED BY: D. Weinrob
 TEST DATE: 07/15/2024
 SERIAL NO: PL47095
 TEST TEMP: +25C



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)	172	273	404	549	672	806	943	1059	1199	1324	1446	1591	1710	1850	1958	Measured Value (mV)
	SLOPE (mV/dB)	15	-13	-12	3	-3	1	9	-5	6	1	-6	9	-2	9	-13	Error (mV)
		0.59	-0.52	-0.46	0.13	-0.12	0.05	0.34	-0.18	0.22	0.04	-0.25	0.35	-0.06	0.34	-0.49	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	183	289	415	546	653	774	901	1010	1141	1260	1375	1512	1626	1756	1857	Measured Value (mV)
	SLOPE (mV/dB)	9	-6	-1	9	-5	-4	2	-10	0	-1	-7	9	2	11	-8	Error (mV)
		0.35	-0.26	-0.04	0.38	-0.19	-0.18	0.08	-0.41	0.01	-0.06	-0.30	0.37	0.09	0.48	-0.34	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	181	277	391	512	614	727	846	949	1072	1183	1289	1417	1526	1646	1741	Measured Value (mV)
	SLOPE (mV/dB)	13	-4	-3	5	-6	-6	1	-9	1	-1	-8	8	4	11	-7	Error (mV)
		0.66	-0.18	-0.13	0.23	-0.25	-0.24	0.03	-0.40	0.05	-0.03	-0.33	0.34	0.17	0.49	-0.30	LINEARITY ERROR (dB)
Flatness +/-dB		0.2	0.3	0.5	0.8	1.2	1.6	2	2.3	2.6	2.9	3.2	3.6	3.8	4.2	4.5	





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