SUMMARY TEST DATA ON SDLVA-0120-70-CONDOR

Customer: [redacted]
SO No: [redacted]
Model No: SDLVA-0120-70-CONDOR
Serial No: PL47098/2431

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 MINIMYM, 75 dBm TYPICAL	**70 dBm**	
3	LOG LINEARITY:	±2.5 dB MAXIMUM @ 1 GHz	**-0.54 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)	**1.17:1 < 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	**-7 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 ns**	
13	FALL TIME:	30 ns MAXIMUM	**21.5 ns**	

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14	SETTLING TIME:	40 ns MAXIMUM	**21 ns**	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	**PASS**	
16	SLOPE:	25 mV/dB NOMINAL ±5 mV/dB	**25.8 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. Hitchcock **DATED:** 7.29.24

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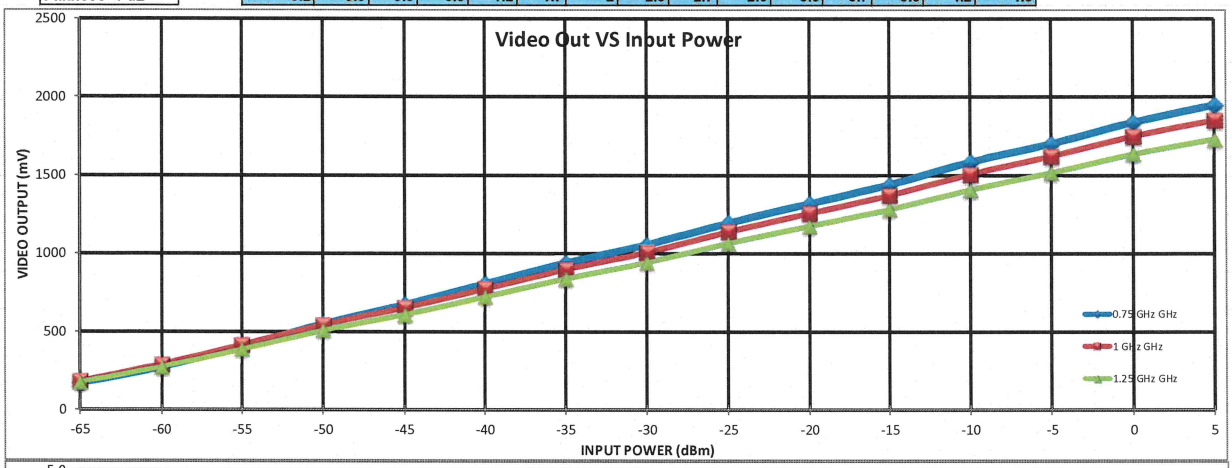
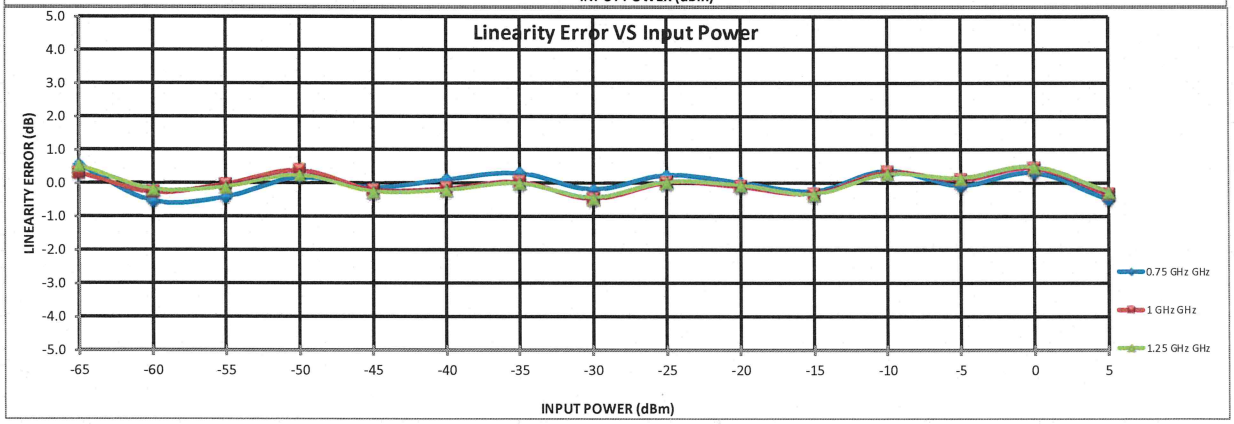
ON
SDLVA-0120-70-CONDOR

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-0120-70-CONDOR
TESTED BY: D. Weinrob
TEST DATE: 07/15/2024
SERIAL NO: PL47098
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)	1832	171	272	404	548	669	804	938	1054	1194	1317	1439	1584	1701	1840	1948	Measured Value (mV)
	SLOPE (mV/dB)	25.8	14	-14	-11	4	-3	3	8	-5	6	1	-6	10	-2	8	-13	Error (mV)
			0.54	-0.54	-0.42	0.17	-0.13	0.11	0.31	-0.19	0.25	0.02	-0.24	0.38	-0.08	0.32	-0.49	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	1736	182	288	414	544	650	771	896	1004	1136	1253	1368	1504	1618	1747	1848	Measured Value (mV)
	SLOPE (mV/dB)	24	8	-6	0	10	-5	-4	1	-11	1	-2	-7	9	3	11	-8	Error (mV)
			0.33	-0.26	-0.01	0.40	-0.19	-0.15	0.05	-0.45	0.04	-0.09	-0.30	0.36	0.11	0.47	-0.32	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	1626	180	276	390	510	611	724	841	943	1066	1176	1282	1408	1517	1637	1732	Measured Value (mV)
	SLOPE (mV/dB)	22.4	12	-4	-2	6	-5	-5	0	-10	1	-1	-7	7	3	11	-6	Error (mV)
			0.54	-0.18	-0.10	0.25	-0.24	-0.20	0.01	-0.44	0.04	-0.05	-0.32	0.29	0.15	0.50	-0.26	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	3.7	3.8	4.2	4.5	





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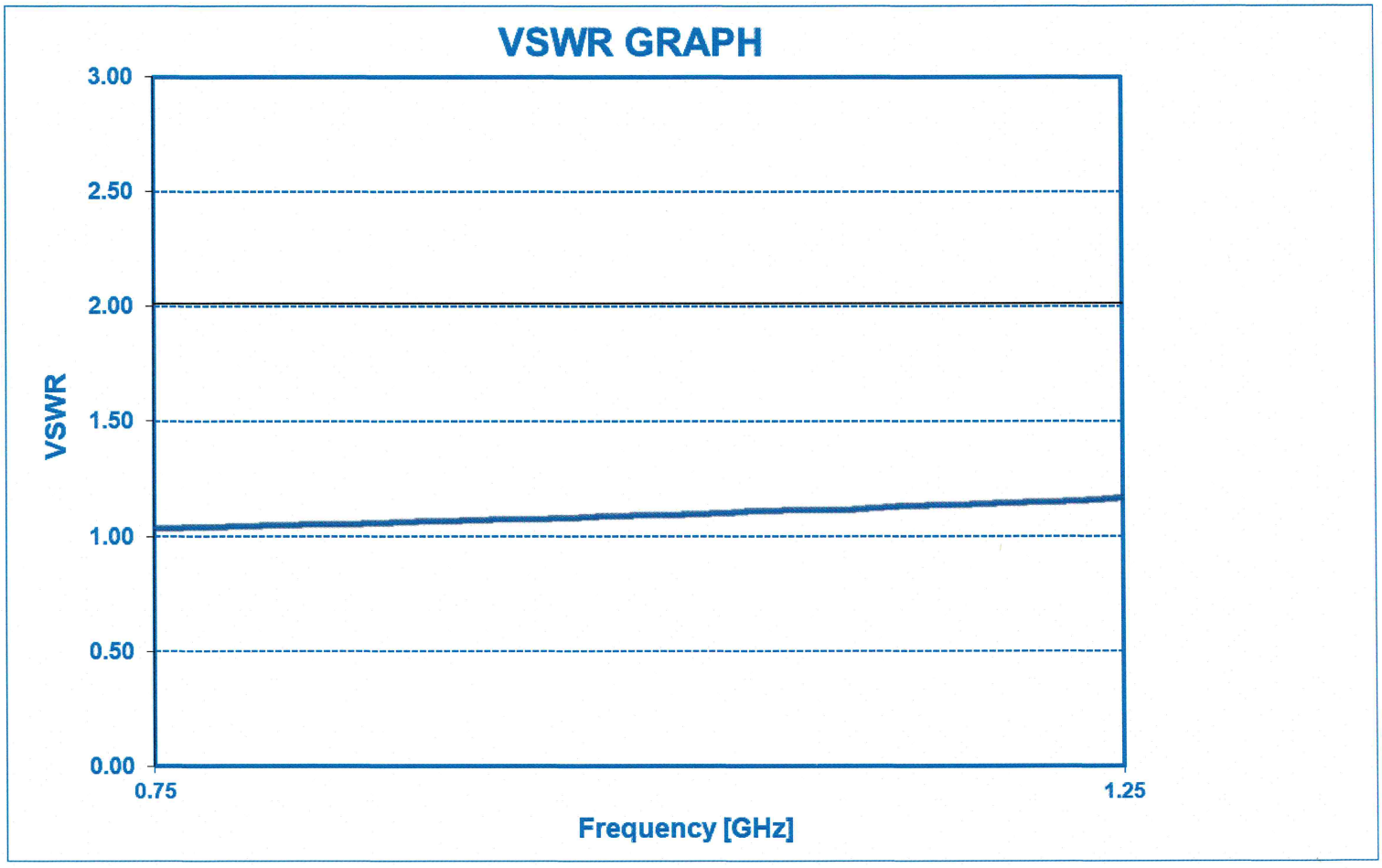

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