



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

Customer: \_\_\_\_\_  
 SO No: \_\_\_\_\_  
 Model No: SDLVA-0120-70-CONDOR  
 Serial No: PL47099/2431

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	0.55 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)	1.04:1 < 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	-9.27 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	16.5 ns	
13	FALL TIME:	30 ns MAXIMUM	20.5 ns	



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14	SETTLING TIME:	40 ns MAXIMUM	39 ns	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	PASS	
16	SLOPE:	25 mV/dB NOMINAL $\pm 5$ mV/dB	25.8 mV/dB See Plot	
17	LOG SLOPE VARIATION WITH FREQUENCY:	$\pm 0.5$ mV/dB TYPICAL (OVER 80 MHz RF BANDWIDTH)	$< \pm 0.5$ mV/dB	
18	LOG SLOPE VARIATION WITH TEMPERATURE:	$\pm 1$ 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. [Signature]

DATED: 7.29.24



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LOG TRANSFER WITH FREQUENCY  
 MODEL: SDLVA-0120-70-CONDOR  
 TESTED BY: D. Weinrob  
 TEST DATE: 07/19/2024  
 SERIAL NO: PL47099  
 TEST TEMP: +25C

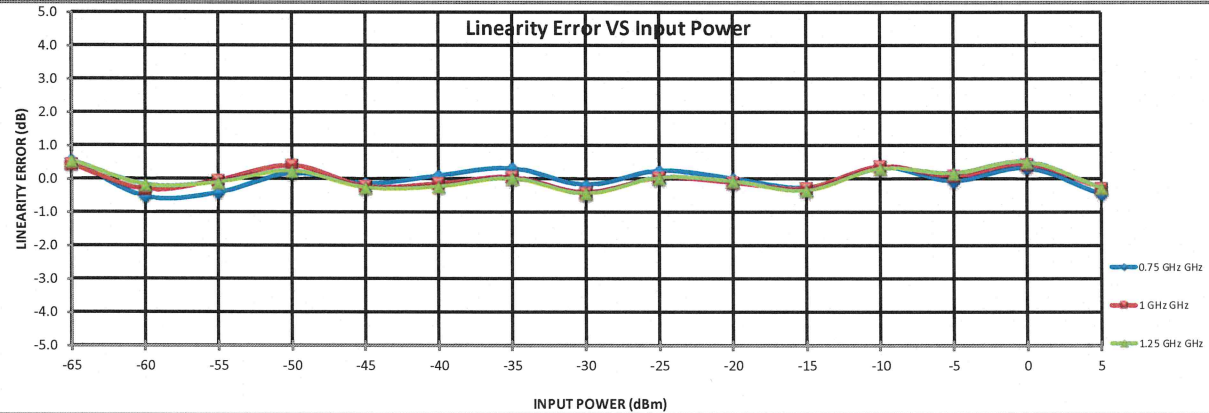
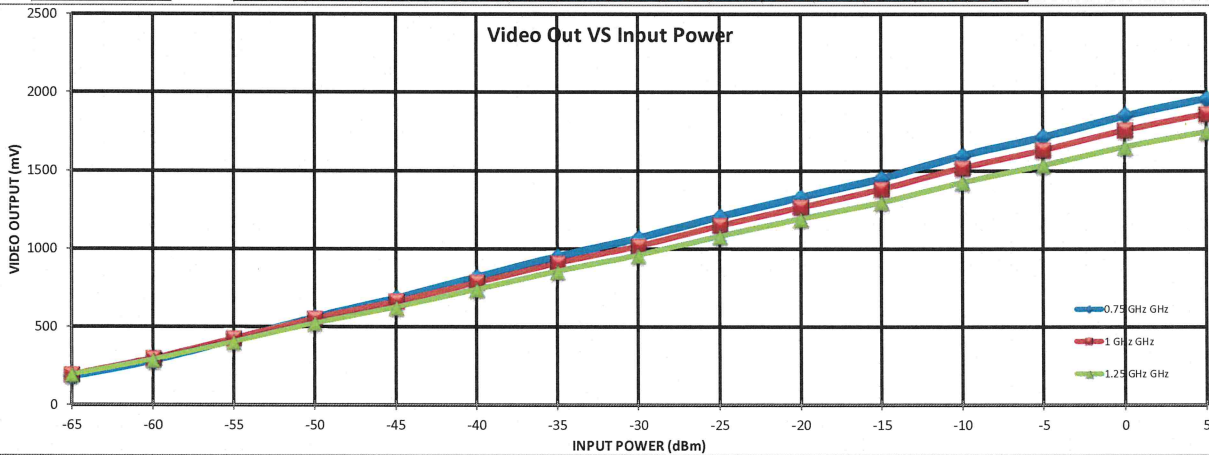


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 7311-F GROVE ROAD, FREDERICK, MD  
 21704 USA  
 TEL: 301-662-5019 FAX: 301-662-1731  
 URL: WWW.PMI-RF.COM

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)	183	284	416	560	681	816	951	1067	1207	1330	1452	1597	1715	1854	1963	Measured Value (mV)
	SLOPE (mV/dB)	14	-14	-11	4	-4	2	8	-5	6	0	-7	9	-2	8	-12	Error (mV)
		0.55	-0.53	-0.42	0.17	-0.14	0.09	0.32	-0.18	0.24	0.01	-0.26	0.36	-0.07	0.32	-0.45	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	197	299	426	557	662	784	909	1018	1149	1266	1382	1518	1631	1760	1863	Measured Value (mV)
	SLOPE (mV/dB)	10	-8	-1	10	-5	-4	1	-10	1	-3	-7	9	2	11	-7	Error (mV)
		0.43	-0.32	-0.04	0.41	-0.23	-0.15	0.05	-0.42	0.03	-0.10	-0.28	0.38	0.08	0.44	-0.27	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	193	289	403	523	624	737	855	957	1080	1190	1296	1423	1532	1652	1747	Measured Value (mV)
	SLOPE (mV/dB)	12	-4	-2	6	-6	-5	1	-10	1	-1	-8	7	4	11	-6	Error (mV)
		0.55	-0.17	-0.10	0.25	-0.26	-0.23	0.03	-0.43	0.04	-0.06	-0.34	0.31	0.16	0.51	-0.26	LINEARITY ERROR (dB)

Flatness +/-dB	0.3	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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