



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

PL39735

Customer: _____
 SO No: _____
 Model No: SDLVA-0120-70-CONDOR
 Serial No: PL39735/2309

Tested By: Dan Almond
 Temperature: +25°C
 Date: 02/28/23
 Drawing No: 27008411 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	0.74 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)	1.13:1 1.52:1 See Plot	
7	TANGENTIAL SENSITIVITY:	-65 dBm MINIMUM, -70 dBm TYPICAL	-70.0 dBm	
8	LIMITED IF OUTPUT:	-6 dBm NOMINAL, ±2.5 dB MAXIMUM	-6.8 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	22.0 ns	
13	FALL TIME:	30 ns MAXIMUM	22.0 ns	PMI QA3



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14	SETTLING TIME:	40 ns MAXIMUM	37.4 ns	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	PASS	
16	SLOPE:	25 mV/dB NOMINAL ± 5 mV/dB	24.73 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	149 mA 78 mA	PMI QA3

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

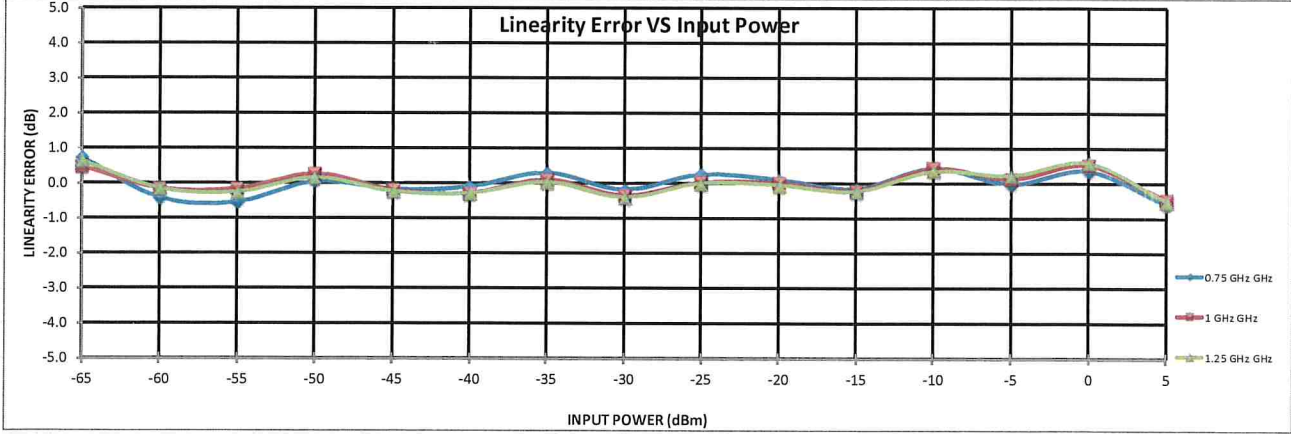
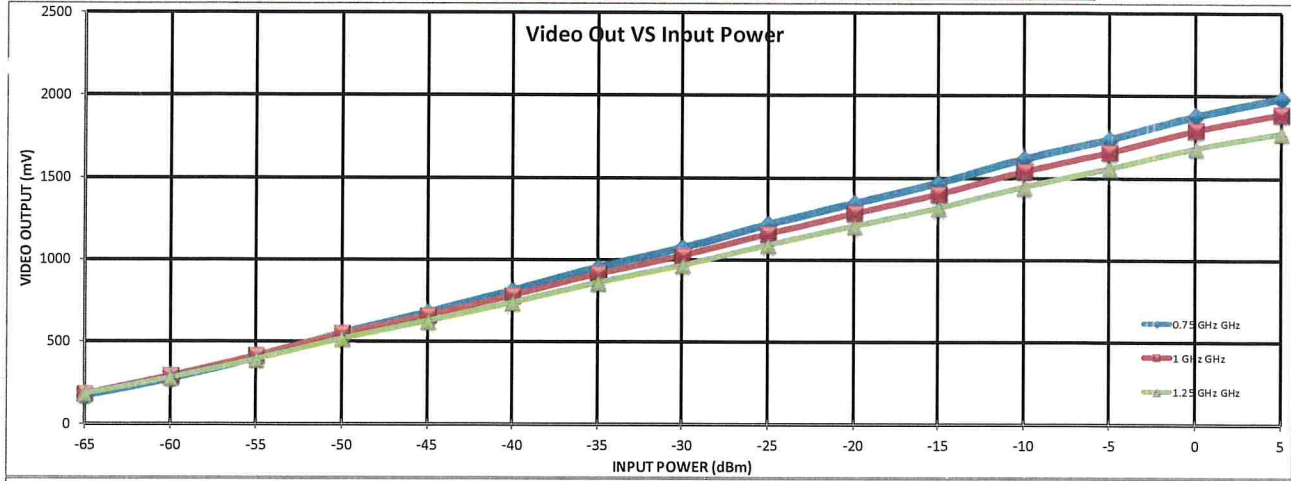
QA/QC APPROVAL: Arthur Zimmerman DATED: 3-1-23



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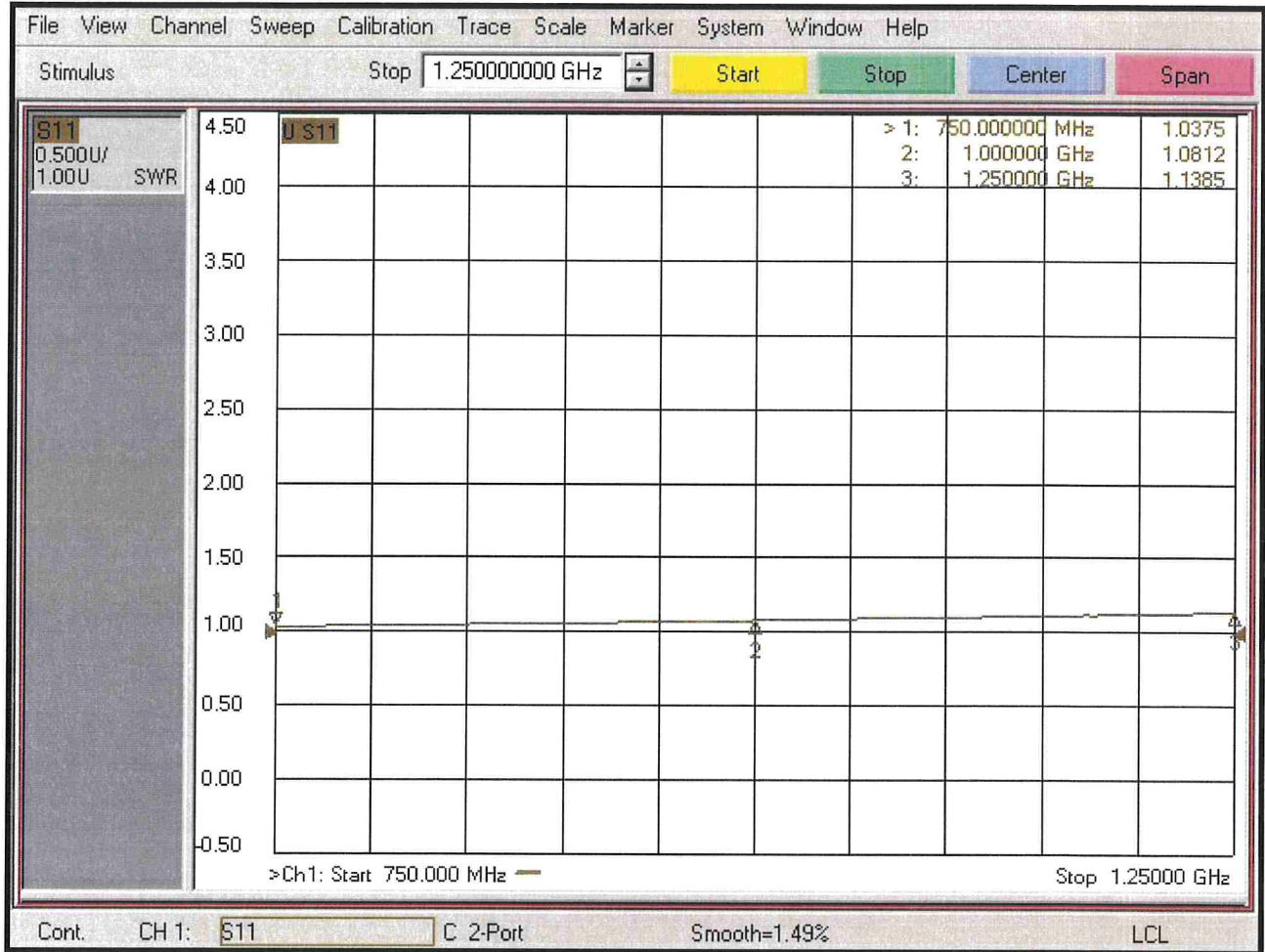
		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.75 GHz	INTERCEPT (mV)	1870															Measured Value (mV)
	SLOPE (mV/dB)	26.4															Error (mV)
		172	273	402	550	676	810	953	1072	1216	1344	1469	1617	1737	1879	1986	LINEARITY ERROR (dB)
		0.74	-0.43	-0.55	0.05	-0.18	-0.11	0.30	-0.19	0.26	0.10	-0.16	0.44	-0.02	0.35	-0.60	Measured Value (mV)
1 GHz	INTERCEPT (mV)	1775															Error (mV)
	SLOPE (mV/dB)	24.7															LINEARITY ERROR (dB)
		183	291	414	548	660	781	914	1026	1159	1282	1400	1539	1655	1788	1887	Measured Value (mV)
		0.47	-0.16	-0.17	0.26	-0.20	-0.30	0.09	-0.37	0.02	0.00	-0.21	0.42	0.12	0.51	-0.48	Error (mV)
1.25 GHz	INTERCEPT (mV)	1667															Measured Value (mV)
	SLOPE (mV/dB)	23.1															Error (mV)
		183	280	393	518	624	738	861	966	1091	1205	1316	1445	1557	1681	1771	LINEARITY ERROR (dB)
		0.65	-0.14	-0.25	0.17	-0.23	-0.29	0.05	-0.40	0.02	-0.04	-0.23	0.37	0.22	0.60	-0.50	Measured Value (mV)
Flatness +/-dB		0.2	0.4	0.4	0.6	1.1	1.5	1.9	2.1	2.5	2.8	3.1	3.5	3.6	4	4.4	Error (mV)





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