



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

PL39733

Customer: _____
 SO No: _____
 Model No: SDLVA-0120-70-CONDOR
 Serial No: PL39733/2309

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	<i>PMI QA3</i>
2	DYNAMIC RANGE:	70 dBm MINIMUM, 75 dBm TYPICAL	70 dBm	
3	LOG LINEARITY:	±2.5 dB MAXIMUM @ 1 GHz	-0.64 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)	1.06:1 1.60:1 See Plot	
7	TANGENTIAL SENSITIVITY:	-65 dBm MINIMUM, -70 dBm TYPICAL	-69.0 dBm	
8	LIMITED IF OUTPUT:	-6 dBm NOMINAL, ±2.5 dB MAXIMUM	-5.70 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	12.0 ns	
13	FALL TIME:	30 ns MAXIMUM	14.0 ns	<i>PMI QA3</i>



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14	SETTLING TIME:	40 ns MAXIMUM	35.4 ns	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	PASS	
16	SLOPE:	25 mV/dB NOMINAL ± 5 mV/dB	24.46 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	74mA 149mA	PMI QA3

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

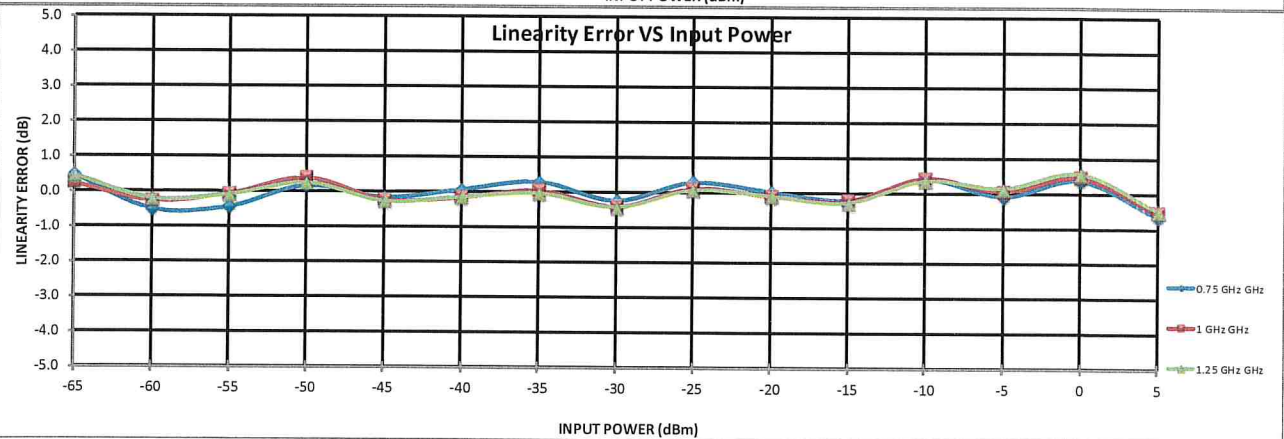
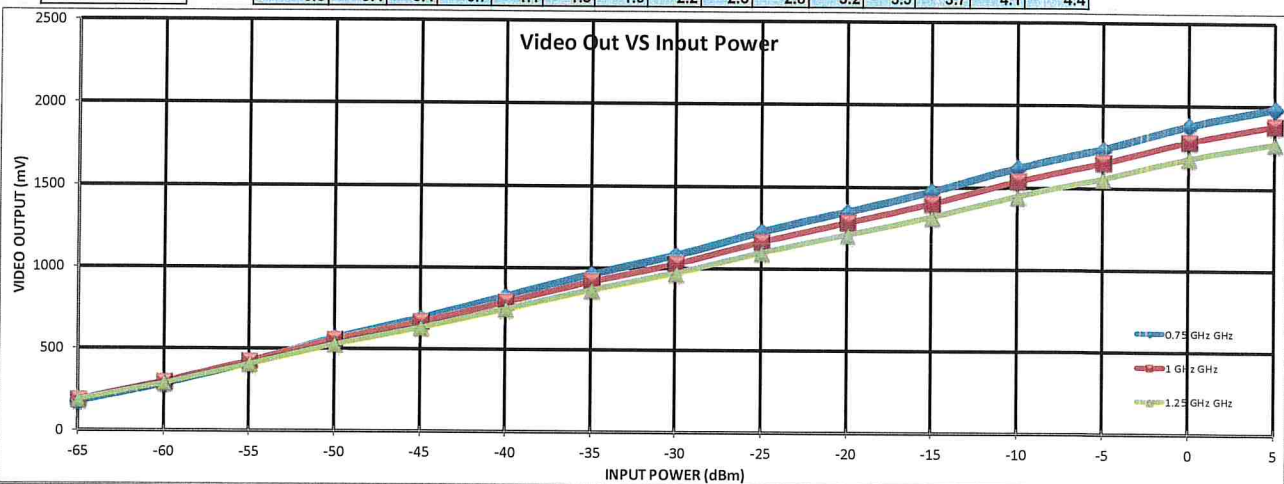
QA/QC APPROVAL: *A Zimmerman* DATED: 3-1-23



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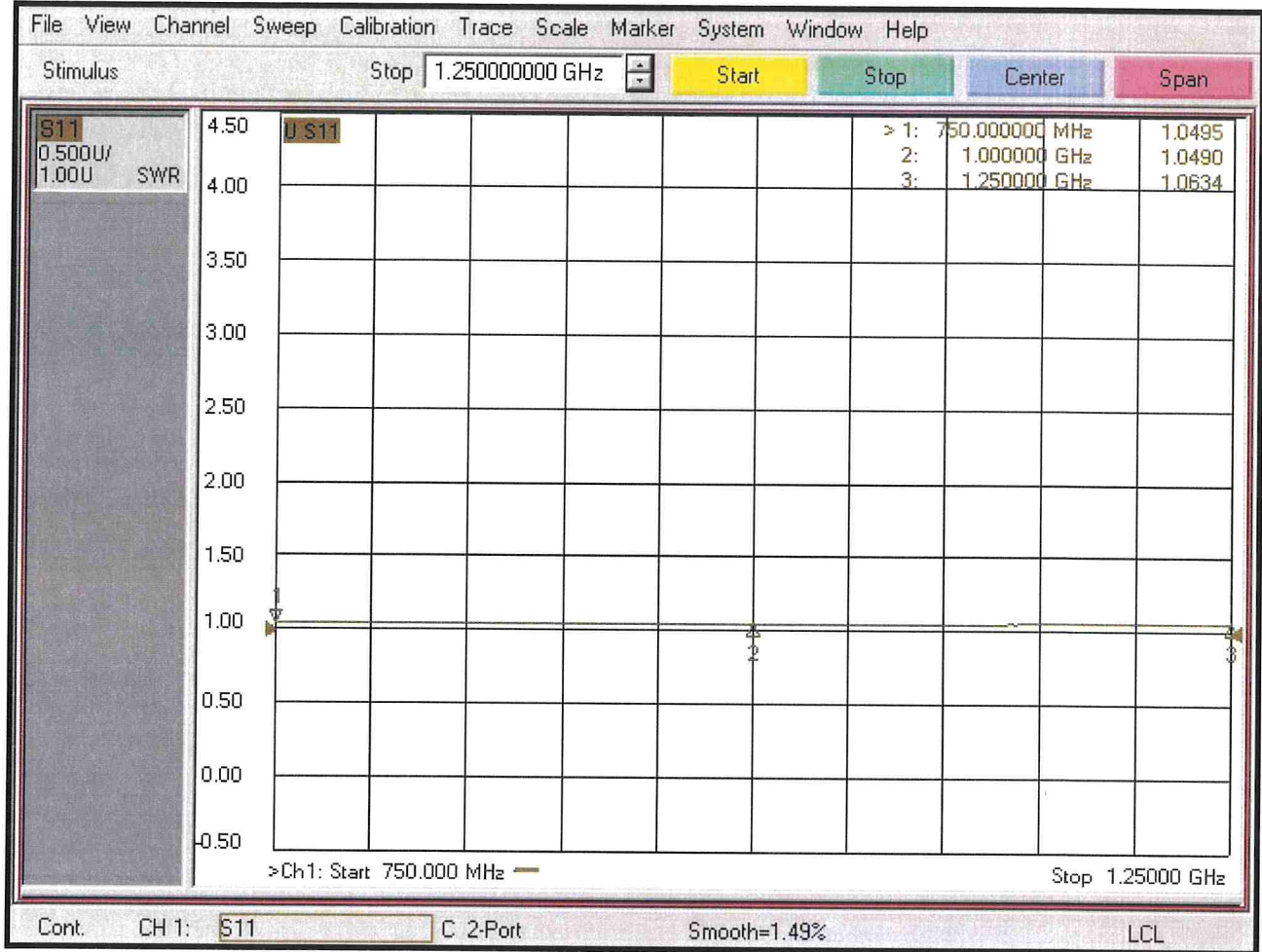
		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.75 GHz	INTERCEPT (mV)	1869															Measured Value (mV)
	SLOPE (mV/dB)	26.2															Error (mV)
		179	284	417	564	686	823	960	1077	1222	1346	1471	1618	1736	1879	1983	LINEARITY ERROR (dB)
		13	-13	-11	5	-4	2	8	-6	8	1	-5	11	-2	10	-17	Measured Value (mV)
		0.49	-0.50	-0.43	0.19	-0.16	0.07	0.30	-0.23	0.31	0.04	-0.19	0.42	-0.07	0.39	-0.64	Error (mV)
																	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	1773															Measured Value (mV)
	SLOPE (mV/dB)	24.4															Error (mV)
		192	302	429	562	669	793	920	1031	1166	1283	1402	1540	1653	1785	1883	LINEARITY ERROR (dB)
		6	-6	-1	10	-5	-3	1	-10	3	-2	-5	11	2	12	-12	Measured Value (mV)
		0.25	-0.24	-0.04	0.40	-0.22	-0.14	0.06	-0.40	0.13	-0.08	-0.21	0.45	0.07	0.48	-0.51	Error (mV)
																	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	1666															Measured Value (mV)
	SLOPE (mV/dB)	22.8															Error (mV)
		192	291	408	530	632	749	866	971	1097	1207	1317	1446	1555	1679	1769	LINEARITY ERROR (dB)
		11	-5	-2	6	-6	-3	0	-10	2	-2	-6	9	4	13	-11	Measured Value (mV)
		0.46	-0.20	-0.08	0.27	-0.27	-0.14	-0.02	-0.42	0.10	-0.09	-0.27	0.38	0.16	0.59	-0.47	Error (mV)
																	LINEARITY ERROR (dB)
Flatness +/-dB		0.3	0.4	0.4	0.7	1.1	1.5	1.9	2.2	2.6	2.8	3.2	3.5	3.7	4.1	4.4	





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