



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

PL39734

Customer: _____
 SO No: _____
 Model No: SDLVA-0120-70-CONDOR
 Serial No: PL39734/2309

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	-0.69 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)	1.11:1 1.60:1 See Plots	
7	TANGENTIAL SENSITIVITY:	-65 dBm MINIMUM, -70 dBm TYPICAL	-69.0 dBm	
8	LIMITED IF OUTPUT:	-6 dBm NOMINAL, ±2.5 dB MAXIMUM	-7.0 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	PMI QA3



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14	SETTLING TIME:	40 ns MAXIMUM	35.7 ns	PMI QA3
15	DC OFFSET:	0.1 V NOMINAL (ADJUSTABLE)	PASS	
16	SLOPE:	25 mV/dB NOMINAL ± 5 mV/dB	24.53 mV/dB	
17	LOG SLOPE VARIATION WITH FREQUENCY:	± 0.5 mV/dB TYPICAL (OVER 80 MHz RF BANDWIDTH)	$< 0.5 \pm$ mV/dB	
18	LOG SLOPE VARIATION WITH TEMPERATURE:	± 1 mV/dB TYPICAL	$< 1 \pm$ 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	75mA 149mA	PMI QA3

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

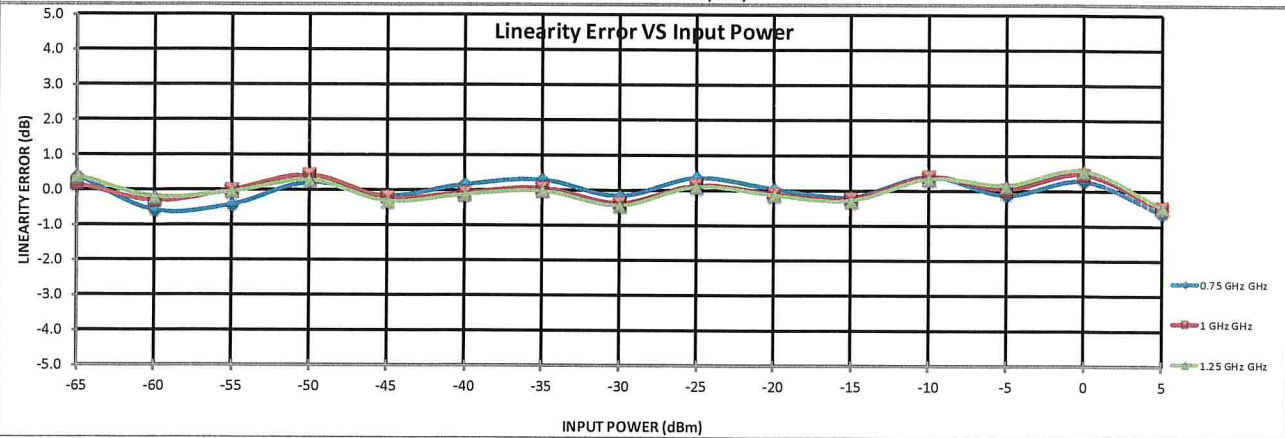
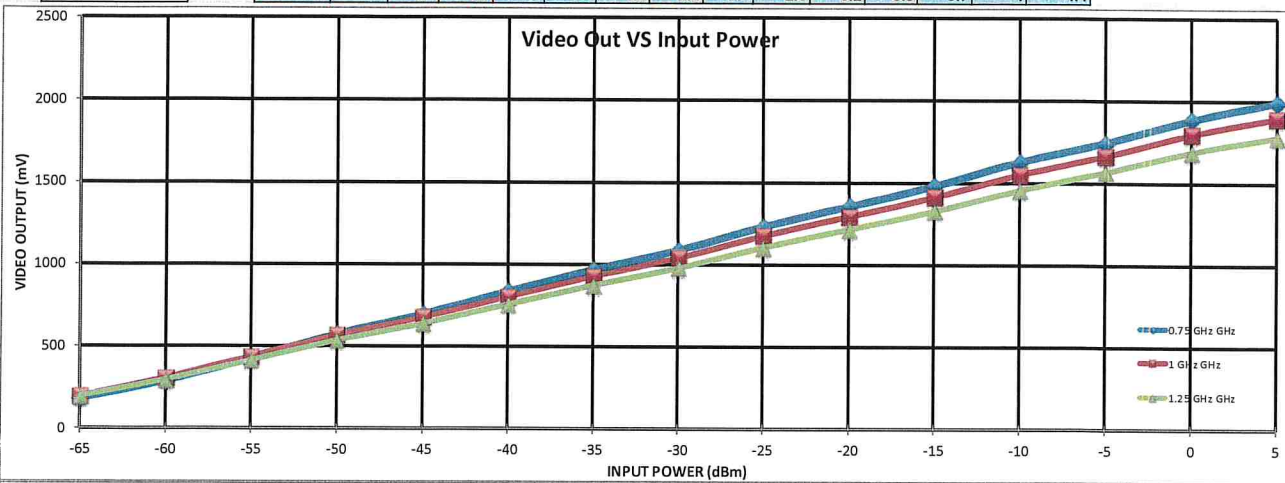
QA/QC APPROVAL: Arthur Zimmerman DATED: 3-1-23



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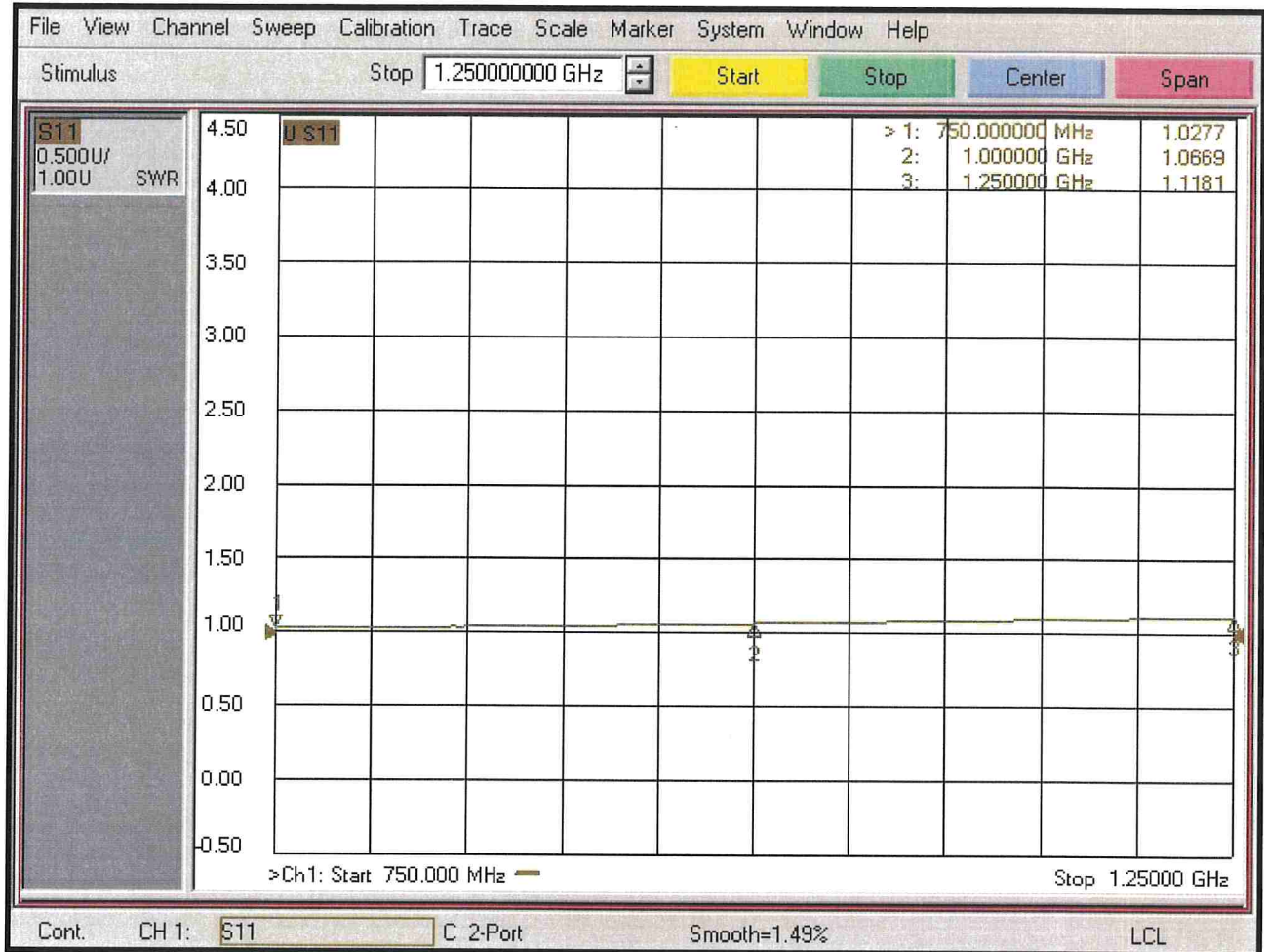
			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.75 GHz	INTERCEPT (mV)	1878	183	288	424	572	693	833	968	1087	1232	1355	1480	1627	1744	1886	1993	Measured Value (mV)
	SLOPE (mV/dB)	26.2	11	-16	-11	6	-4	4	8	-4	10	2	-5	11	-3	8	-17	Error (mV)
			0.41	-0.59	-0.41	0.23	-0.16	0.17	0.31	-0.15	0.37	0.06	-0.18	0.42	-0.12	0.29	-0.64	LINEARITY ERROR (dB)
1 GHz	INTERCEPT (mV)	1783	194	305	435	568	675	801	927	1039	1174	1291	1410	1548	1662	1795	1894	Measured Value (mV)
	SLOPE (mV/dB)	24.5	4	-7	0	11	-5	-2	2	-9	4	-2	-6	10	1	12	-12	Error (mV)
			0.18	-0.30	0.00	0.43	-0.21	-0.07	0.07	-0.36	0.14	-0.08	-0.23	0.40	0.05	0.47	-0.49	LINEARITY ERROR (dB)
1.25 GHz	INTERCEPT (mV)	1675	195	296	414	536	637	756	873	978	1105	1214	1325	1454	1564	1688	1779	Measured Value (mV)
	SLOPE (mV/dB)	22.9	9	-4	-1	7	-7	-3	0	-10	3	-3	-6	8	4	13	-10	Error (mV)
			0.40	-0.19	-0.04	0.29	-0.30	-0.11	0.00	-0.42	0.12	-0.12	-0.27	0.36	0.16	0.57	-0.46	LINEARITY ERROR (dB)
Flatness +/-dB			0.2	0.3	0.4	0.7	1.1	1.6	1.9	2.2	2.6	2.9	3.2	3.5	3.7	4	4.4	





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