



**SUMMARY TEST DATA
ON
DETECTOR LOG VIDEO AMPLIFIER**

CUSTOMER: _____	JOB NO: <u>SO10-182-P</u>
MODEL NO: <u>SDLVA-100M700M-70</u>	TESTED BY: <u>H. Gonzales</u>
OPTION NO: _____	TEMPERATURE: <u>+25°C</u>
SERIAL NO: <u>PL8205</u>	DATE: <u>11/08/10</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	100 MHz TO 700 MHz	100 MHz TO 700 MHz	
2	INPUT VSWR:	1.5:1 (TYPICAL) 2.0:1 (MAXIMUM)	<1.03:1 (TYPICAL)	
3	LOGGING RANGE	-60 dBm TO +10 dBm PLOTS ATTACHED	-60 dBm TO +10 dBm SEE PLOT	
4	TSS:	-60 dBm (TYPICAL)	-60 dBm	
5	LOG SLOPE:	25 mV/dB NOMINAL	25.85 mv/dB 23.63 mv/dB	
6	LOG LINEARITY @ -65dB TO +5dBm	± 2.0 dB MAXIMUM ± 1.5 dB MAX (-55 TO 0 dBm)	±0.49 dB	
7	RISE TIME: (10% TO 90% POINTS)	15nSec (TYPICAL) 25nSec (MAXIMUM)	SEE TYPICAL PLOT	
8	FALL TIME: (90% TO 10% POINTS)	15nSec (TYPICAL) 30nSec (MAXIMUM)	SEE TYPICAL PLOT	
9	LIMITED IF OUTPUT	-5 dBm Typical -10 dBm Min	-3.91 dBm -5.64 dBm	
10	DC POWER @ +15V NO LOAD	100mA (MAXIMUM)	62 mA	
11	DC POWER @ -15V NO LOAD	200mA (MAXIMUM)	140 mA	

QA/QC APPROVAL: _____ DATED: _____

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVA-100M700M-70 OPTION :
 TESTED BY: Hugo G.
 DATE: 11/4/10

SERIAL NO: PL8205

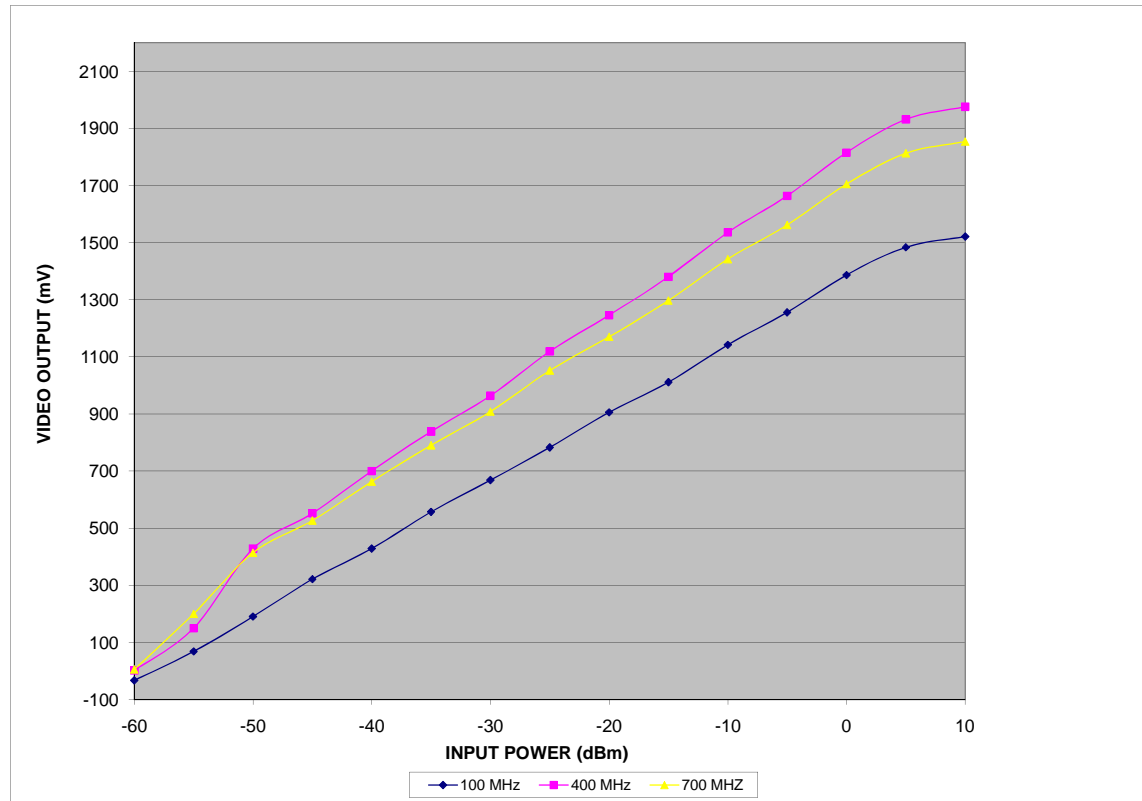


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Frequency

		-50 TO 0 dBm	-55 TO 0 dBm	-60 TO +10 dBm
100 MHz	INTERCEPT (mV)	1377.153	1378.3	1357.156
	SLOPE (mV/dB)	23.63	23.70	23.11
	LIMITED IF OUTPUT (dBm)			
400 MHz	INTERCEPT (mV)	1806.179	1822.9	1796.6
	SLOPE (mV/dB)	27.73	28.74	28.40
	LIMITED IF OUTPUT (dBm)			
700 MHz	INTERCEPT (mV)	1694.516	1703.9	1684.9
	SLOPE (mV/dB)	25.85	26.41	26.32
	LIMITED IF OUTPUT (dBm)			
	LINEARITY(-50 TO 0dBm)	± 0.49		
	LINEARITY(-55 TO 0dBm)	± 4.55		
	LINEARITY(-60 TO +10dBm)	± 5.27		
	FREQUENCY FLATNESS	± 17.51		

	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
100 MHz	-32	69	191	322	429	557	668	783	906	1011	1142	1256	1386	1483	1521	Measured Value (mV)
	8	-9	-5	8	-3	7	0	-3	1	-12	1	-3	9	-12	-93	Error (mV)
	-6.45	-5.64	-5.54	-5.50	-5.47	-5.47	-5.47	-5.47	-5.45	-5.47	-5.47	-5.47	-5.45	-5.47	-5.47	Measured Value (mV)
400 MHz	2	150	428	552	700	838	964	1119	1246	1380	1536	1663	1815	1931	1976	Measured Value (mV)
	-140	-131	9	-6	3	3	-10	6	-6	-10	7	-4	9	-14	-108	Error (mV)
	-4.07	-3.91	-3.97	-3.94	-3.94	-3.94	-3.94	-3.94	-3.92	-3.92	-3.94	-3.92	-3.92	-3.92	-3.92	Measured Value (mV)
700 MHz	5	200	414	527	663	790	908	1052	1171	1297	1443	1562	1705	1813	1854	Measured Value (mV)
	-139	-73	12	-5	2	0	-11	4	-7	-9	6	-3	11	-10	-99	Error (mV)
	-4.83	-4.60	-4.53	-4.48	-4.50	-4.48	-4.55	-4.48	-4.55	-4.55	-4.55	-4.55	-4.55	-4.48	-4.55	Measured Value (mV)



LIMITED IF OUTPUT MAX	-3.91 dBm	(-55 to 0 dBm)
LIMITED IF OUTPUT MIN	-5.64 dBm	(-55 to 0 dBm)
LIMITED IF FLATNESS	± 0.87 dBm	(-55 to 0 dBm)