



SUMMARY TEST DATA
ON
DETECTOR LOG VIDEO AMPLIFIER

CUSTOMER: _____	JOB NO: <u>SO11-155</u>
MODEL NO: <u>SDLVA-0R71R3-75-MEC</u>	TESTED BY: <u>H. Gonzales</u>
OPTION NO: _____	TEMPERATURE: <u>+25°C</u>
SERIAL NO: <u>PL9585/1139</u>	DATE: <u>09/28/11</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	QA/QC
1	FREQUENCY RANGE	700 MHz TO 1300 MHz	700 MHz TO 1300 MHz	
2	INPUT VSWR:	1.5:1 (TYPICAL) 1.8:1 (MAXIMUM)	< 1.2:1 (See Plot)	
3	LOGGING RANGE	-70 dBm TO +5 dBm (TYPICAL) PLOTS ATTACHED	-70 dBm To +5 dBm (See Plot)	
4	TSS:	-70 dBm Typical	- 70 dBm (See Typical Plot)	
5	LOG SLOPE:	40mV/dB NOMINAL	37.1 mv/dB 42.2 mv/dB	
6	LOG LINEARITY @ -60dB TO 0dBm	± 0.8dB Typ, ± 1.2dB Max (RF IN TO RF OUT)	±0.76 dB	
7	LOG LINEARITY @ -65dB TO +5dBm	± 1.2dB Typ, ± 1.5dB Max (RF IN TO RF OUT)	±0.76 dB	
8	RISE TIME: (10% TO 90% POINTS)	15nsec (TYPICAL) 25nsec (MAXIMUM)	See Typical Characteristics	
9	FALL TIME: (90% TO 10% POINTS)	15nsec (TYPICAL) 30nsec (MAXIMUM)	See Typical Characteristics	
10	LIMITED IF OUTPUT	+5 dBm Typ	3.51 dBm 5.67 dBm	
11	DC SUPPLY (NO LOAD)	+12 TO +15VDC @ 200mA Max. -12 TO -15VDC @ 190mA Max.	+12 TO +15VDC @ 80mA -12 TO -15VDC @ 144mA	

QA/QC Approval: PMI QA 1 Date: 9/28/11



PLANAR MONOLITHICS INDUSTRIES
 7311-F GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-662-5019 FAX: 301-662-4731
 URL: WWW.PMIARF.COM
 EMAIL: SALES@PMIARF.COM
 ISO 9001:2008 CERTIFIED

SERIAL NO: PL9585

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVA-0R71R3-75-MEC OPTION :
 TESTED BY: Hugo G.
 DATE: 09/27/11

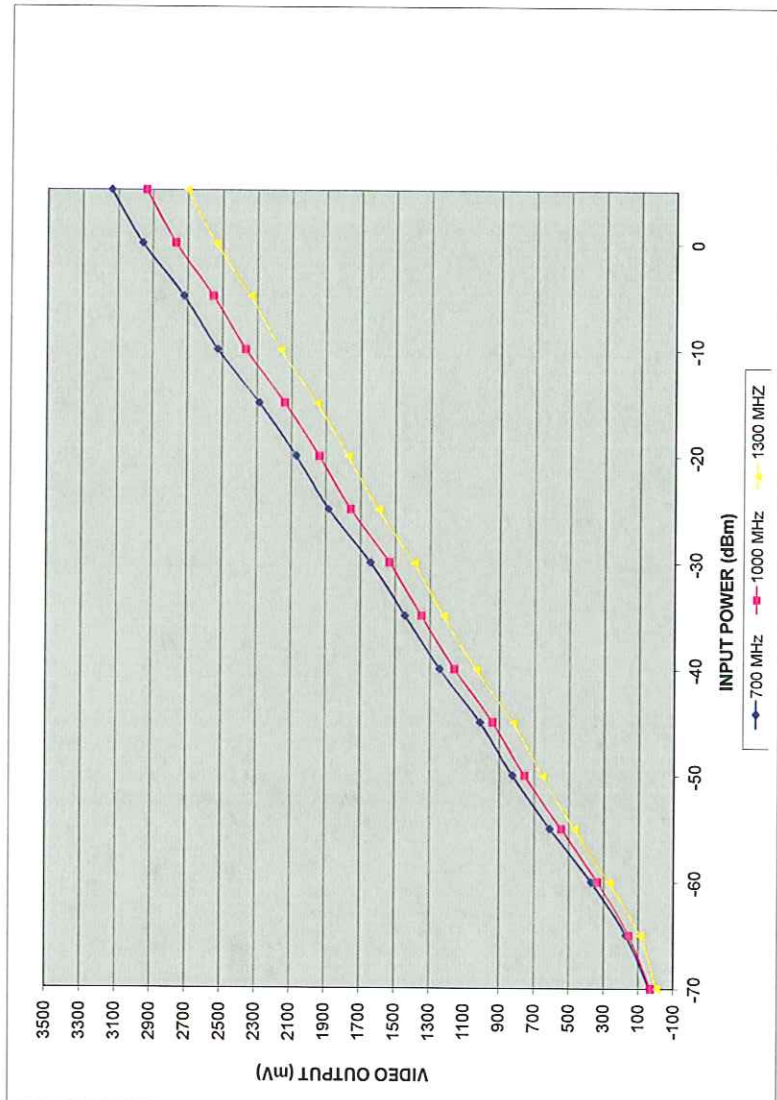
Frequency

700 MHz INTERCEPT (mV) 2929
 SLOPE (mV/dB) 42.19
 LIMITED IF OUTPUT (dBm)

1000 MHz INTERCEPT (mV) 2744
 SLOPE (mV/dB) 39.69
 LIMITED IF OUTPUT (dBm)

1300 MHz INTERCEPT (mV) 2520
 SLOPE (mV/dB) 37.11
 LIMITED IF OUTPUT (dBm)
 LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 0.76
 FREQUENCY FLATNESS ± 10.92

RF Input Power (dBm)	700 MHz Measured Value (mV)	700 MHz Error (mV)	1000 MHz Measured Value (mV)	1000 MHz Error (mV)	1300 MHz Measured Value (mV)	1300 MHz Error (mV)										
-70	36	171	370	608	825	1012	1244	1443	1643	1884	2071	2285	2525	2719	2957	3136
-65	-16	-28	-1	5	-18	3	-10	-21	9	-14	-12	18	1	28	-4	
-60	2.13	3.51	3.76	4.02	3.88	3.97	4.00	4.00	3.88	4.06	3.95	3.93	3.93	3.99	3.98	
-55	544	757	940	1159	1349	1535	1757	1938	2138	2364	2551	2769	2936			
-50	-27	-17	-2	-17	3	-5	-18	6	-11	-10	17	6	25	-6		
-45	4.01	4.54	4.54	4.59	4.81	4.69	4.88	4.71	4.66	4.83	4.83	4.69	4.83	4.71		
-40	1036	1222	1394	1600	1773	1955	2163	2336	2539	2703						
-35	2	-13	8	-5	-8	15	2	19	-2							
-30	5.27	5.13	5.62	5.41	5.39	5.62	5.46	5.53	5.51	5.62	5.65	5.67				
-25	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821
-20	8	-5	-8	15	2	19	-2									
-15	1036	1222	1394	1600	1773	1955	2163	2336	2539	2703						
-10	2	-13	8	-5	-8	15	2	19	-2							
-5	5.27	5.13	5.62	5.41	5.39	5.62	5.46	5.53	5.51	5.62	5.65	5.67				
0	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821	821
5	8	-5	-8	15	2	19	-2									



5.67 dBm (-60 to +5 dBm)
 3.51 dBm (-60 to +5 dBm)
 1.08 dBm (-60 to +5 dBm)

LIMITED IF OUTPUT MAX
 LIMITED IF OUTPUT MIN
 LIMITED IF FLATNESS