



**TYPICAL CHARACTERISTICS  
ON  
SDLVA-218-65-16MV-12DBM**

S/N: PL23272

MODEL SDLVA-218-65-16MV-12DBM IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 2GHz TO 18GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 65 dB, A LOG SLOPE OF 16.0mV / dB, AND A VERY HIGH NOMINAL VIDEO BANDWIDTH OF 50 MHz. FURTHERMORE; IT HAS BEEN DESIGNED USING CUTTING EDGE TECHNOLOGY WHICH PROVIDES STUNNING PERFORMANCE AND RELIABILITY IN A COMPACT PACKAGE MAKING IT AN OPTIMUM SOLUTION FOR HIGH SPEED CHANNELIZED RECEIVER APPLICATIONS.



August 24<sup>rd</sup> 2018

Prepared By: E. Benson  
Tested By: E. Benson & Jerry Wade  
Designed By: John Merriner

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# TYPICAL CHARACTERISTICS ON SDLVA-218-65-16MV-12DBM

S/N: PL23272

## PRODUCT FEATURE

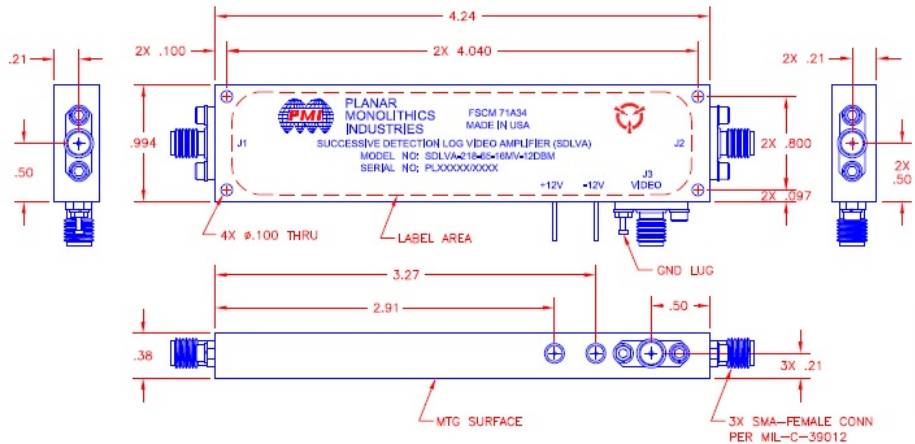
### DESCRIPTION

THE MODEL SDLVA-218-65-16MV-12 dBm IS A SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA) THAT OPERATES BETWEEN THE 2 TO 18 GHz FREQUENCY RANGE. IT HAS A DYNAMIC RANGE OF 65 dB, A LOG SLOPE OF 16 mV / dB, AND A NOMINAL VIDEO BANDWIDTH OF 35 MHz. FURTHERMORE, IT HAS BEEN DESIGNED USING CUTTING EDGE GdAs TECHNOLOGY WHICH PROVIDES STUNNING PERFORMANCE AND RELIABILITY IN A COMPACT PACKAGE.

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	1	ORIGINAL RELEASE	10/27/15	JM
	A1	ECN # 17-0125	6/7/17	JM
	B1	SPEC CHANGES	2/8/18	JM

### SPECIFICATIONS

- FREQUENCY RANGE: 2 GHz to 18 GHz
- TSS: -64 dBm MAX
- INPUT POWER HANDLING: +20 dBm
- VIDEO LOG RANGE: -55 dBm to +10 dBm
- VIDEO LOG LINEARITY: +2.2 dB
- VIDEO LOG SLOPE: 16.0 ±2.0 mV/dB NOM
- VIDEO FREQ FLATNESS: ±4 dB MAX
- PULSE WIDTH RANGE: 25 ns TO CW
- VIDEO RISE TIME: 10 ns MAX
- VIDEO FALL TIME: 20 ns MAX
- RECOVERY TIME: 50 ns MAX
- DELAY: <2 ns
- VIDEO OUTPUT IMPEDANCE LOAD: 50Ω
- RF IN/OUT IMPEDANCE: 50Ω
- INPUT VSWR (50 Ω): 2.0:1 MAX
- DC POWER SUPPLY:
  - +V: +12V @ 850 mA MAX
  - V: -12V @ 250 mA MAX
- SIZE: 4.24 X .994X .38
- WEIGHT: 3 OZ MAX
- FINISH: NICKEL PLATE PER MIL-C-26074



### ENVIRONMENTAL RATINGS

- TEMPERATURE: 0 °C TO +85 °C (OPERATING)  
-62 °C TO +86 °C (STORAGE)
- HUMIDITY: 95% (CONTINUOUS AND INTERMITTENT)
- SHOCK: MIL-S-901 GRADE A CLASS 1 TYPE B
- VIBRATION: MIL-STD-167-1 TYPE 1 (4-50Hz)

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:  
.XX - ±.020  
.XXX - ±.005

PMI CONFIDENTIAL AND PROPRIETARY

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ISO 9001 CERTIFIED



APPROVALS		DATE	TITLE		
DRAWN	JM	10/27/15	PRODUCT FEATURE SDLVA-218-65-16MV-12DBM		
CHECKED			SIZE	FSCM NO.	DWG NO.
ISSUED			A	71A34	27017671
			SCALE	N/S	SHEET 1 OF 1
			REV.	B1	

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**TYPICAL CHARACTERISTICS  
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S/N: PL23272

**+25C SUMMARY PERFORMANCE DATA**

<b>TEST. ITEM NO</b>	<b>PARAMETERS</b>	<b>SPECIFIED VALUE</b>	<b>TEST RESULTS</b>
1	Frequency Range	2 GHz to 18 GHz	<b>2 GHz to 18 GHz</b>
2	TSS	-64 dBm max	<b>-65dBm</b>
3	Input Power Handling	+20 dBm	<b>+20dBm</b>
4	Video Log Range	-55 dBm to +10 dBm	<b>-55 to +10dBm</b>
5	Video Log Linearity	+2.2 dB	<b>+1.88dB -1.65dB</b>
6	Video Log Slope	16.0 ±2.0 mV/dB nom	<b>16.1mV/dB ±0.46dB</b>
7	Video Freq Flatness	±4 dB max	<b>±1.90dB</b>
8	Pulse Width Range	25 nsec to CW	<b>PASS</b>
9	Video Rise Time	10 nsec max	<b>3.965nsec</b>
10	Video Fall Time	15 nsec max	<b>8.449nsec</b>
11	Recovery Time	30 nsec max	<b>17.91nsec</b>
12	Delay	<2 nsec	<b>1.739nsec</b>
13	Video Output Impedance	50Ω	<b>Pass</b>
14	RF In/Out Impedance	50Ω	<b>Pass</b>
15	Input VSWR (50Ω)	2.0:1 max	<b>1.95:1</b>
16	DC Supply	+12 V @ 850 mA -12 V @ 250 mA	<b>456mA 22mA</b>

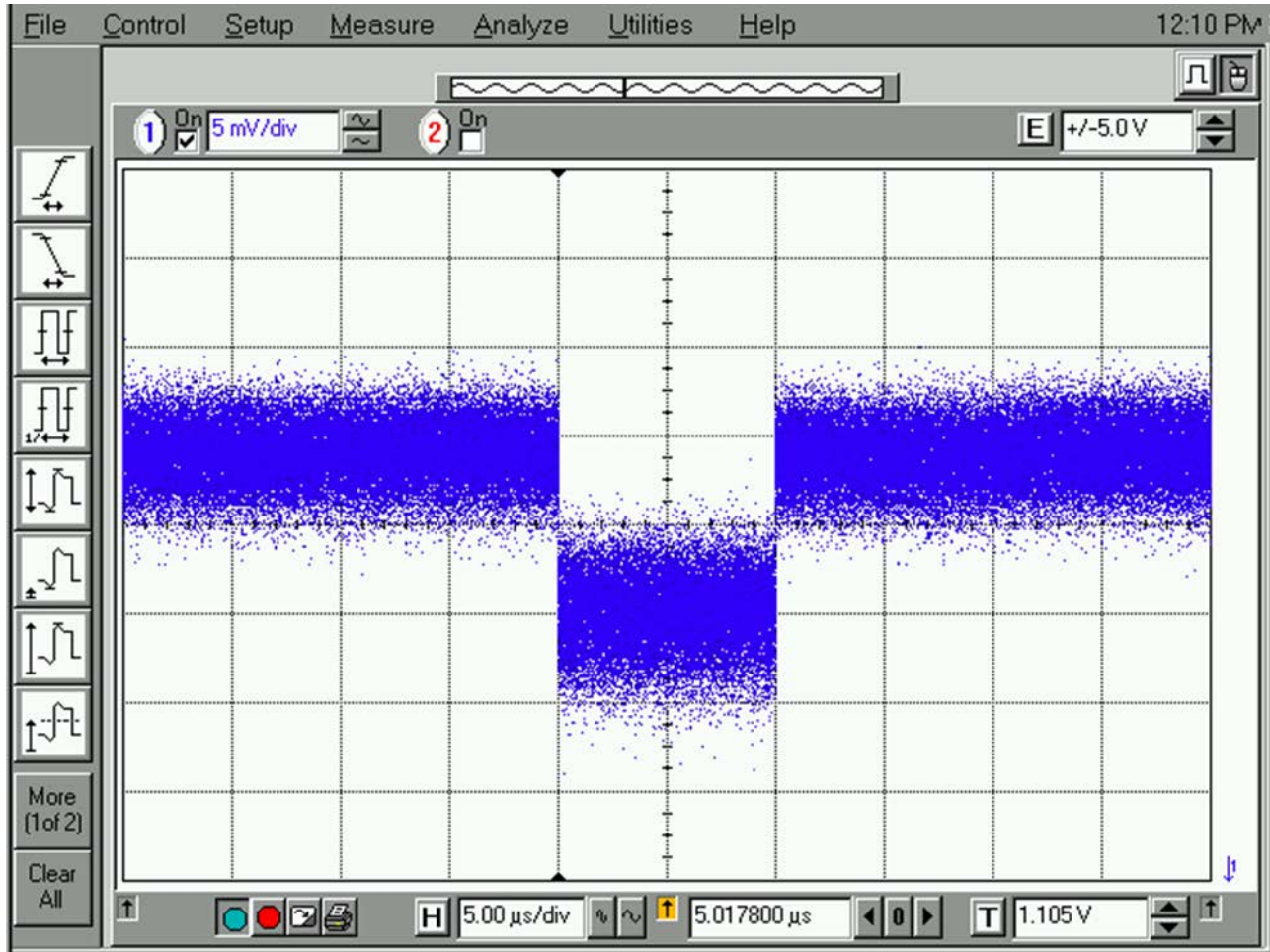
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**TYPICAL CHARACTERISTICS  
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TSS



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**TYPICAL CHARACTERISTICS  
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SDLVA-218-65-16MV-12DBM**

S/N: PL23272

**LOGGING CHARACTERISTICS VS FREQUENCY @+25C**

MODEL: SDLVA-218-65-16MV-12DBM  
SERIAL NO: PL23272  
DATE: 08/23/18  
TESTED BY: E.Benson  
Test Temp: +25C



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GRAPH #1

Video Output Voltage With No RF 0.157

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)	Measured Value (mV)	Error(dB)	LINEARITY ERROR (dB)
2 GHz	INTERCEPT (mV)	-861	4	-71	-146	-232	-310	-379	-464	-539	-609	-701	-790	-867	-952	-1011				
	SLOPE (mV/dB)	-15.8	-6	-1	3	-4	-3	7	1	5	14	2	-8	-6	-12	8				
			0.35	0.09	-0.17	0.26	0.19	-0.45	-0.08	-0.34	-0.91	-0.10	0.52	0.39	0.76	-0.51				
6 GHz	INTERCEPT (mV)	-864	36	-48	-136	-230	-306	-370	-447	-528	-606	-701	-791	-868	-957	-1018				
	SLOPE (mV/dB)	-16.3	6	3	-4	-17	-11	6	10	10	14	0	-9	-4	-12	8				
			-0.34	-0.18	0.24	1.02	0.70	-0.37	-0.63	-0.65	-0.85	0.00	0.53	0.27	0.75	-0.50				
10 GHz	INTERCEPT (mV)	-860	35	-45	-128	-224	-307	-379	-453	-531	-607	-698	-784	-859	-947	-1019				
	SLOPE (mV/dB)	-16.2	5	6	4	-11	-13	-4	3	6	11	1	-4	1	-6	3				
			-0.30	-0.36	-0.23	0.69	0.82	0.27	-0.16	-0.35	-0.65	-0.03	0.28	-0.09	0.34	-0.21				
14 GHz	INTERCEPT (mV)	-851	66	-13	-102	-206	-298	-364	-432	-505	-583	-670	-764	-854	-948	-1023				
	SLOPE (mV/dB)	-16.6	6	9	3	-18	-27	-10	5	15	20	15	4	-3	-14	-6				
			-0.34	-0.57	-0.20	1.07	1.62	0.60	-0.29	-0.89	-1.18	-0.93	-0.26	0.17	0.84	0.37				
18 GHz	INTERCEPT (mV)	-831	41	-36	-123	-229	-312	-371	-438	-508	-570	-653	-747	-832	-921	-998				
	SLOPE (mV/dB)	-15.7	10	12	3	-25	-29	-10	1	10	26	21	5	-1	-12	-11				
			-0.67	-0.75	-0.20	1.57	1.88	0.64	-0.08	-0.61	-1.65	-1.35	-0.34	0.09	0.77	0.69				
Flatness +/- dB			1.90	1.80	1.40	0.80	0.40	0.50	1.00	1.10	1.20	1.50	1.40	1.10	1.10	0.80				
Max Video Output Volts			0.066	-0.013	-0.102	-0.206	-0.298	-0.364	-0.432	-0.505	-0.570	-0.653	-0.747	-0.832	-0.921	-0.998				
Min Video Output Volts			0.004	-0.071	-0.146	-0.232	-0.312	-0.379	-0.464	-0.539	-0.609	-0.701	-0.791	-0.868	-0.957	-1.023				
Log Slope Average: mV/dB																				-16.1
Log Slope Variation: ± mV/dB																				0.46

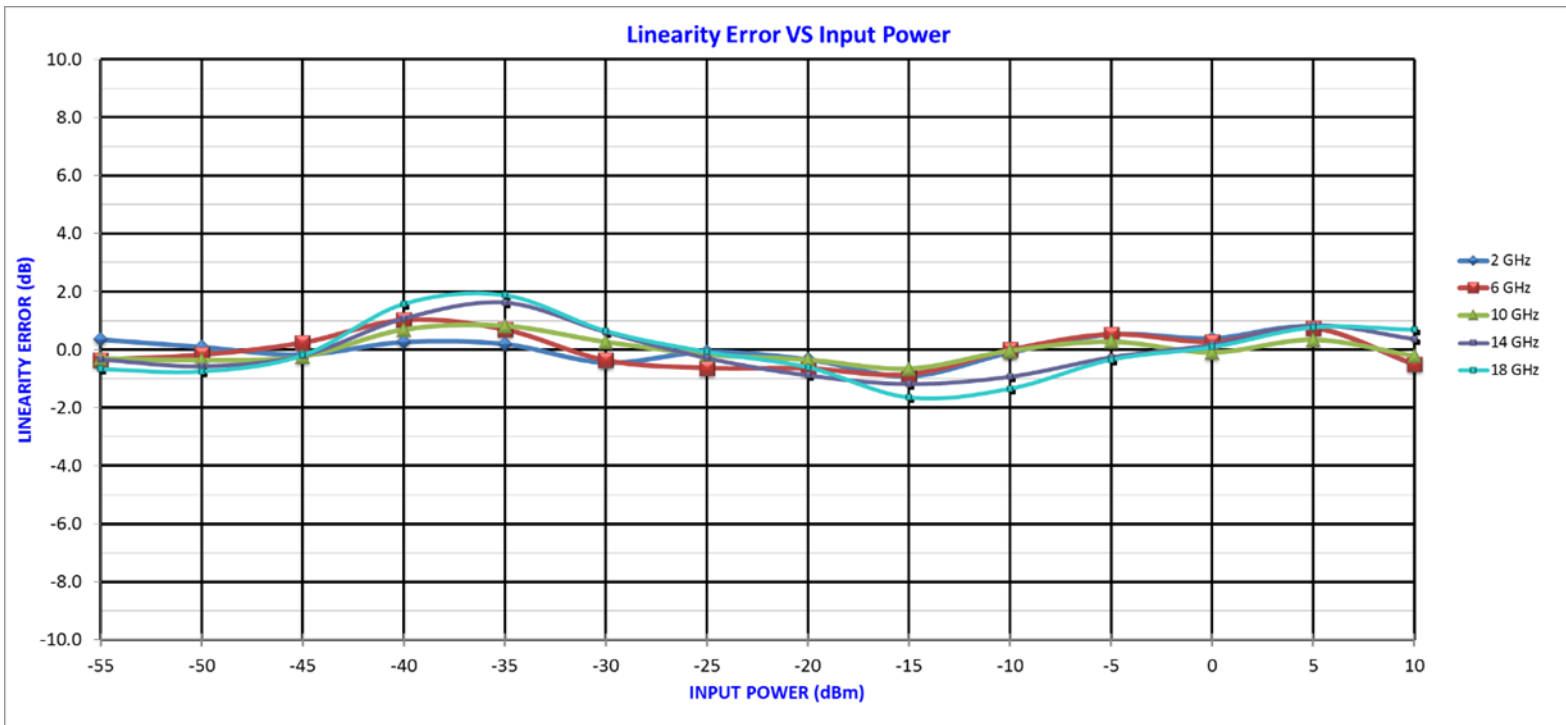
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**LOGGING CHARACTERISTICS VS FREQUENCY @+25C**



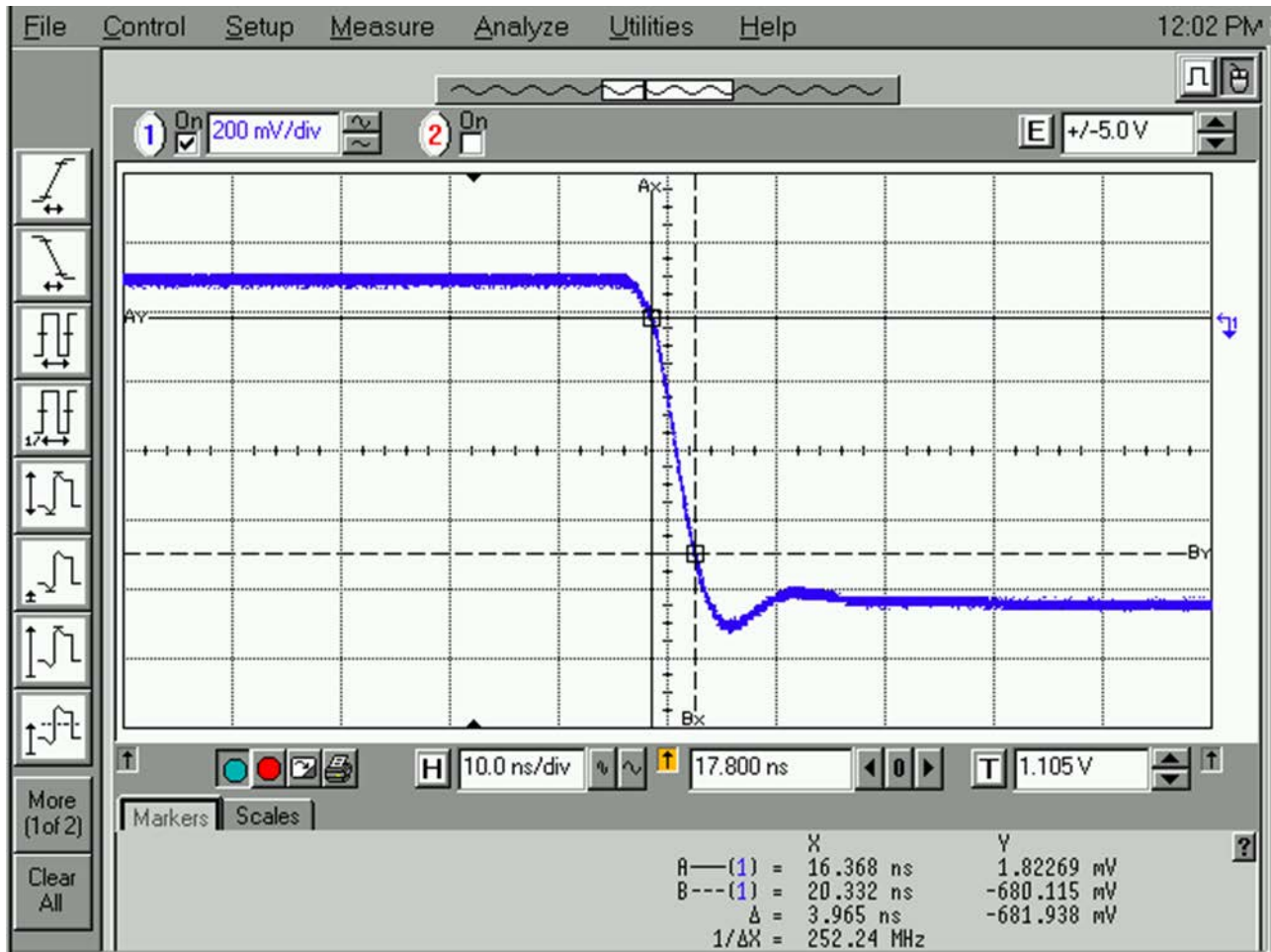
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**RISE TIME**



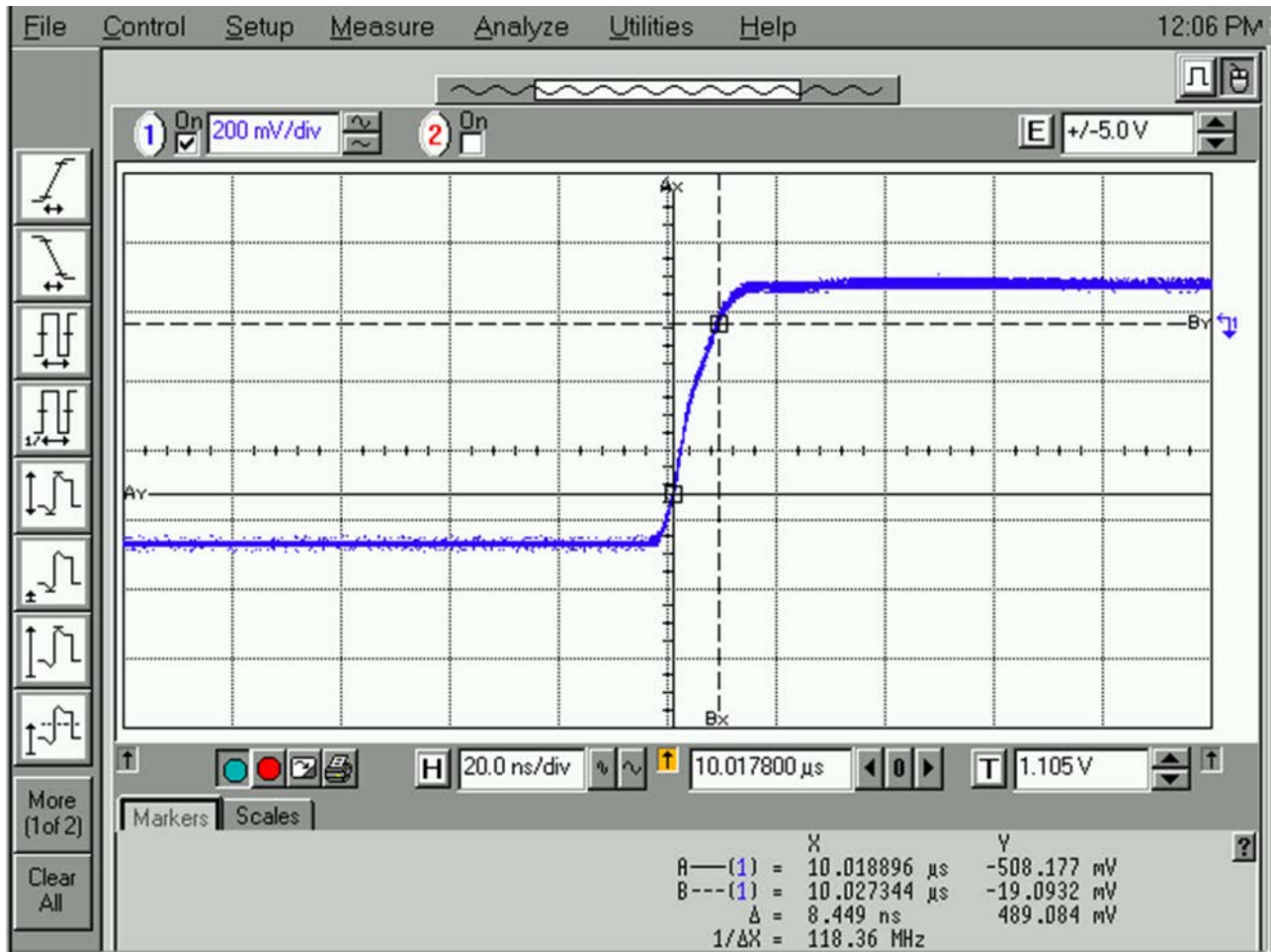
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VIDEO FALL TIME



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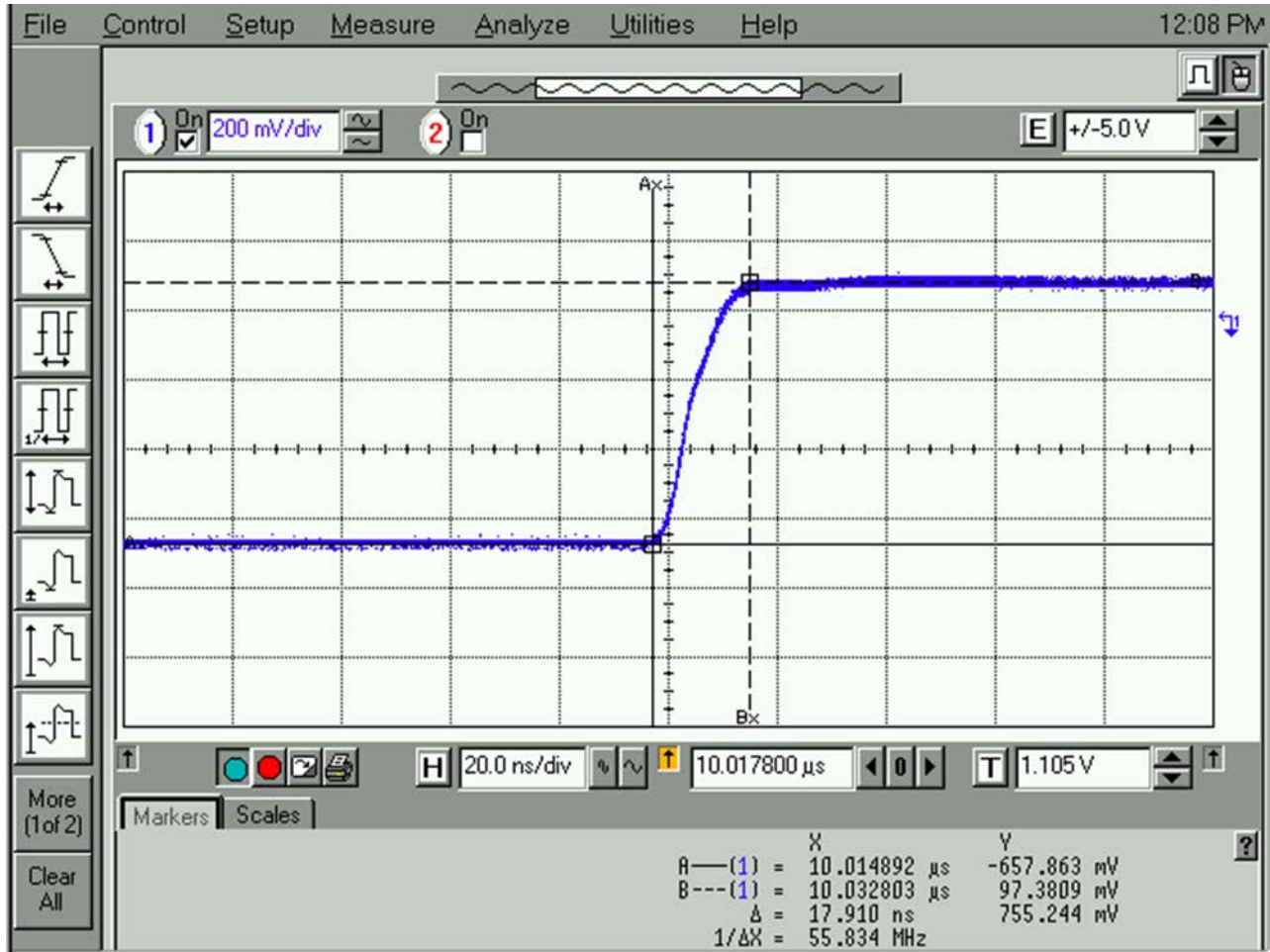




**TYPICAL CHARACTERISTICS  
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**VIDEO RECOVERY TIME**



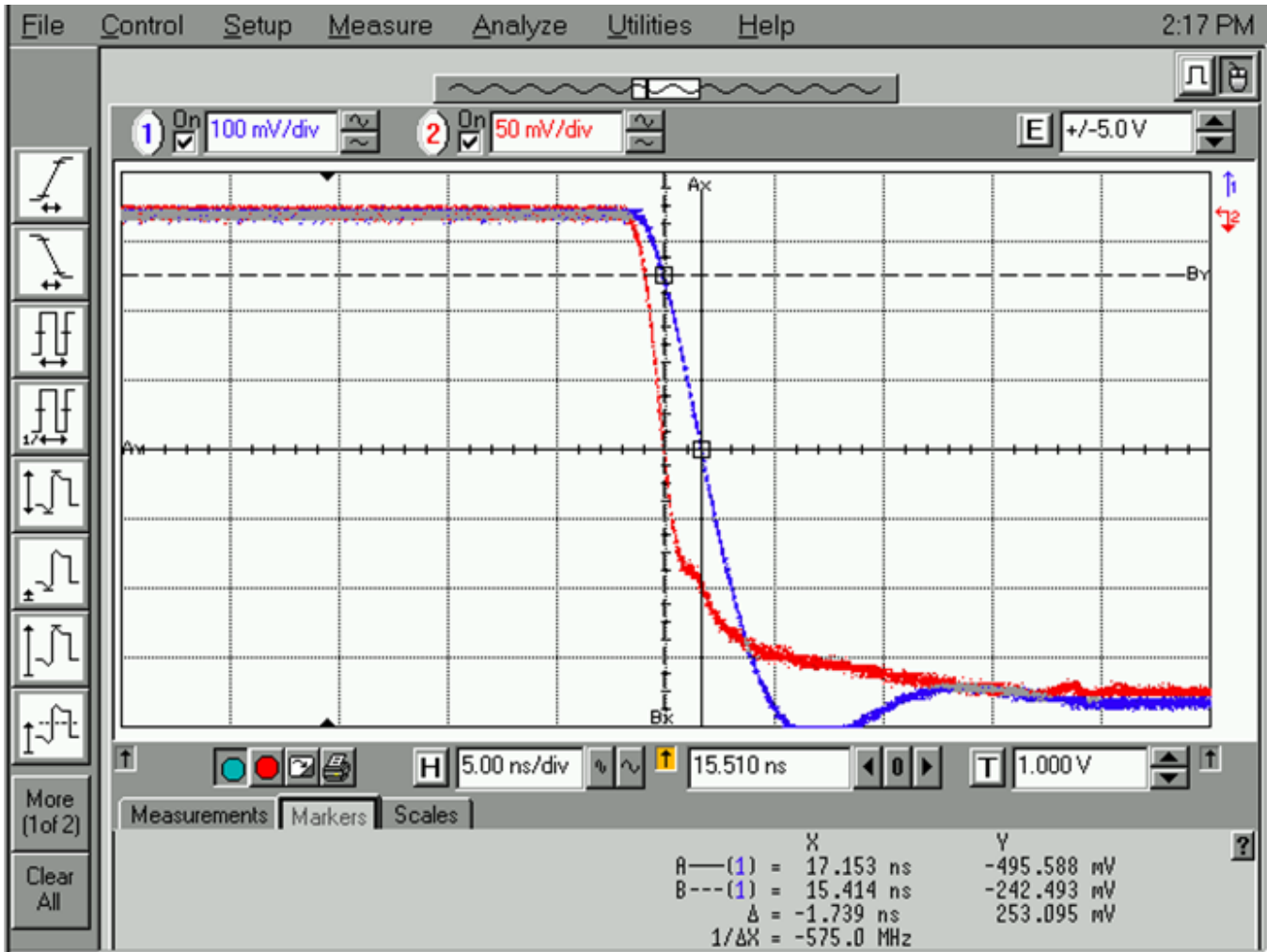
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**VIDEO DELAY TIME**



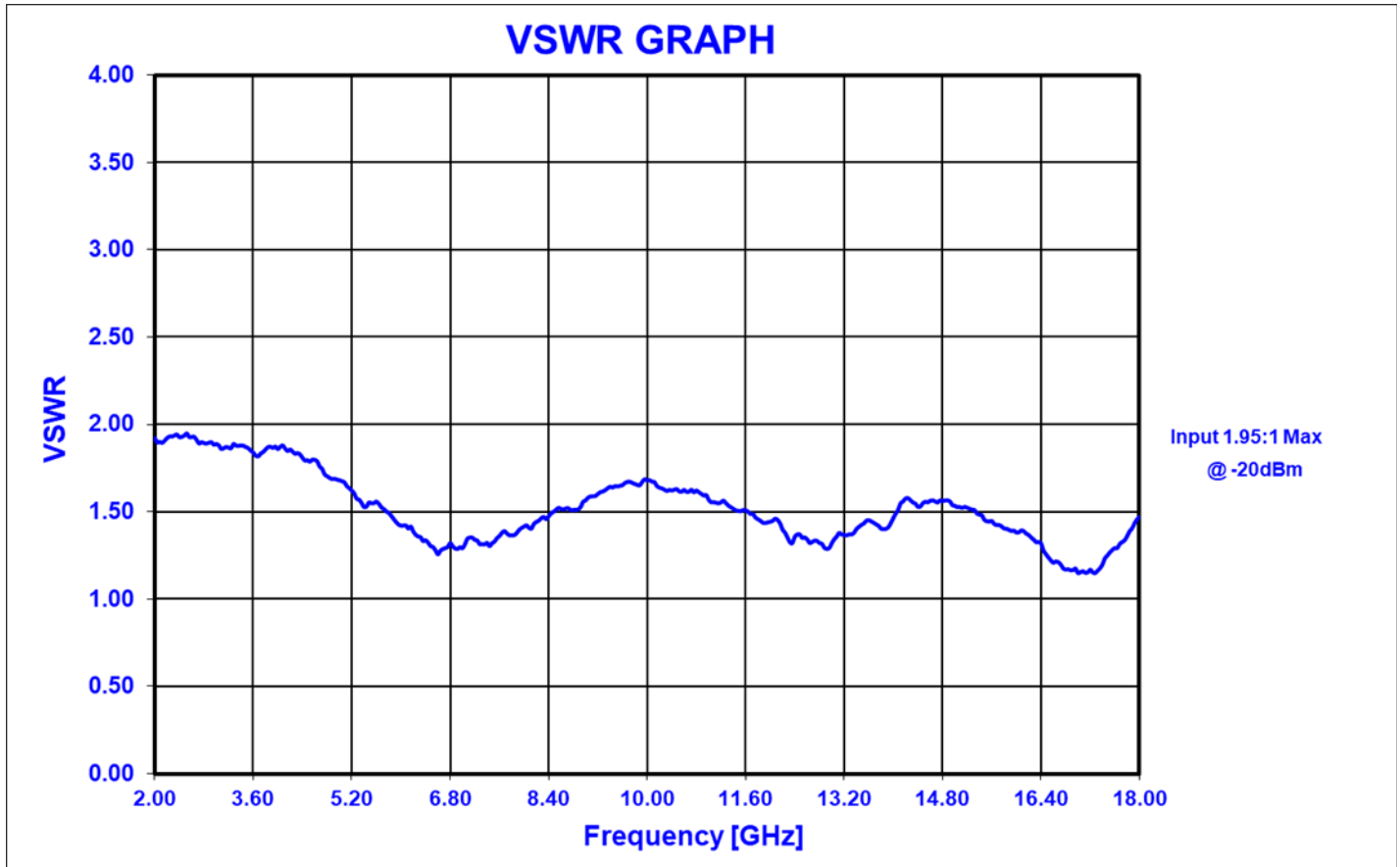
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**TYPICAL CHARACTERISTICS  
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**INPUT VSWR**



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**TYPICAL CHARACTERISTICS  
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S/N: PL23272

**LOGGING PERFORMANCE DATA @ 0C**

<b>TEST. ITEM NO</b>	<b>PARAMETERS</b>	<b>SPECIFIED VALUE</b>	<b>TEST RESULTS</b>
1	Frequency Range	2 GHz to 18 GHz	<b>2 GHz to 18 GHz</b>
3	Input Power Handling	+20 dBm	<b>+20dBm</b>
4	Video Log Range	-55 dBm to +10 dBm	<b>-55 to +10dBm</b>
5	Video Log Linearity	+2.2 dB	<b>+1.87dB -1.49dB</b>
6	Video Log Slope	16.0 ±2.0 mV/dB nom	<b>17.3mV/dB ±0.41dB</b>
7	Video Freq Flatness	±4 dB max	<b>±1.20dB</b>
13	Video Output Impedance	50Ω	<b>Pass</b>
14	RF In/Out Impedance	50Ω	<b>Pass</b>

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S/N: PL23272

**LOGGING CHARACTERISTICS VS FREQUENCY @ 0C**

MODEL: SDLVA-218-65-16MV-12DBM  
SERIAL NO: PL23272  
DATE: 08/23/18  
TESTED BY: E.Benson  
Test Temp: 0C

GRAPH #1



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Video Output Voltage With No RF 0.280

Frequency			-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)		
2 GHz	INTERCEPT (mV)	-825	119	38	-45	-140	-225	-303	-396	-479	-557	-655	-749	-830	-921	-984	Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	-17.2	-4	2	5	-4	-3	5	-1	2	10	-2	-10	-5	-9	14		Error (mV)	MAX
			0.20	-0.10	-0.28	0.23	0.16	-0.31	0.08	-0.10	-0.57	0.11	0.56	0.26	0.54	-0.80	LINEARITY ERROR (dB)	0.56	-0.80
6 GHz	INTERCEPT (mV)	-823	137	49	-45	-144	-226	-298	-381	-466	-548	-651	-744	-828	-921	-985	Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	-17.3	5	4	-3	-15	-11	4	8	10	14	-2	-8	-5	-12	11		Error (mV)	MAX
			-0.31	-0.24	0.18	0.88	0.61	-0.24	-0.45	-0.55	-0.83	0.11	0.47	0.32	0.68	-0.63	LINEARITY ERROR (dB)	0.88	-0.83
10 GHz	INTERCEPT (mV)	-823	135	52	-38	-141	-229	-307	-389	-473	-554	-652	-740	-821	-915	-989	Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	-17.3	5	8	5	-11	-13	-4	1	3	9	-2	-4	2	-5	7		Error (mV)	MAX
			-0.27	-0.48	-0.29	0.66	0.73	0.23	-0.03	-0.19	-0.51	0.14	0.22	-0.11	0.31	-0.42	LINEARITY ERROR (dB)	0.73	-0.51
14 GHz	INTERCEPT (mV)	-821	162	77	-18	-133	-230	-303	-377	-456	-537	-631	-725	-821	-923	-1000	Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	-17.7	9	13	6	-20	-29	-13	1	11	18	13	7	0	-14	-2		Error (mV)	MAX
			-0.53	-0.72	-0.36	1.14	1.62	0.75	-0.07	-0.61	-1.03	-0.72	-0.41	0.02	0.78	0.13	LINEARITY ERROR (dB)	1.62	-1.03
18 GHz	INTERCEPT (mV)	-806	135	52	-42	-160	-247	-311	-381	-460	-528	-619	-717	-808	-903	-982	Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	-16.9	13	14	5	-29	-32	-11	3	9	25	19	5	-2	-12	-7		Error (mV)	MAX
			-0.76	-0.84	-0.27	1.71	1.87	0.66	-0.20	-0.52	-1.49	-1.10	-0.29	0.10	0.72	0.40	LINEARITY ERROR (dB)	1.87	-1.49
Flatness +/- dB			1.20	1.10	0.80	0.80	0.60	0.40	0.50	0.70	0.80	1.00	0.90	0.60	0.60	0.50			
Max Video Output Volts			0.162	0.077	-0.018	-0.133	-0.225	-0.298	-0.377	-0.456	-0.528	-0.619	-0.717	-0.808	-0.903	-0.982			
Min Video Output Volts			0.119	0.038	-0.045	-0.160	-0.247	-0.311	-0.396	-0.479	-0.557	-0.655	-0.749	-0.830	-0.923	-1.000			
Log Slope Average: mV/dB																-17.3			
Log Slope Variation: ± mV/dB																0.41			

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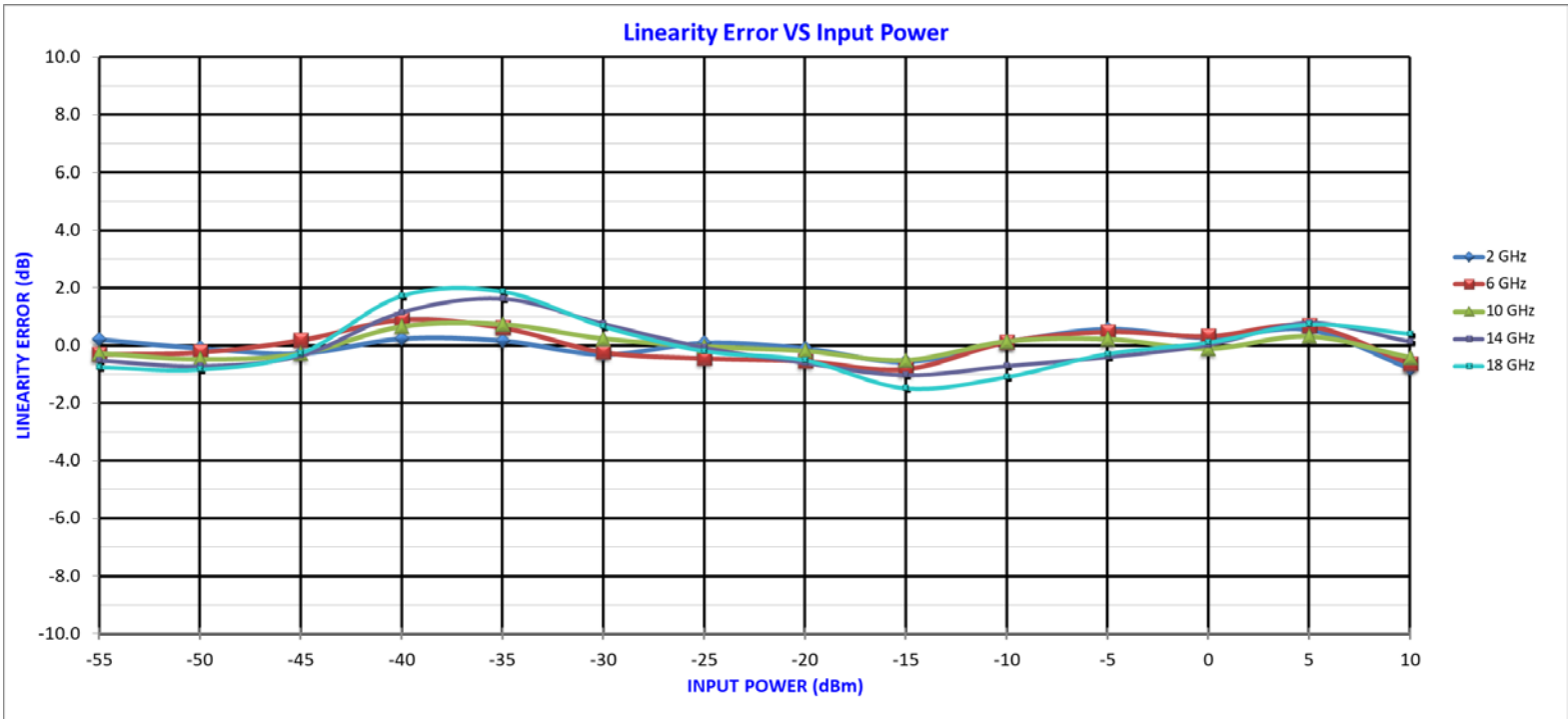




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S/N: PL23272

**LOGGING CHARACTERISTICS VS FREQUENCY @ 0C**



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**TYPICAL CHARACTERISTICS  
ON  
SDLVA-218-65-16MV-12DBM**

S/N: PL23272

**LOGGING PERFORMANCE DATA @ +85C**

<b>TEST. ITEM NO</b>	<b>PARAMETERS</b>	<b>SPECIFIED VALUE</b>	<b>TEST RESULTS</b>
1	Frequency Range	2 GHz to 18 GHz	<b>2 GHz to 18 GHz</b>
3	Input Power Handling	+20 dBm	<b>+20dBm</b>
4	Video Log Range	-55 dBm to +10 dBm	<b>-55 to +10dBm</b>
5	Video Log Linearity	+2.2 dB	<b>+1.99dB -1.51dB</b>
6	Video Log Slope	16.0 ±2.0 mV/dB nom	<b>15.6mV/dB ±0.44dB</b>
7	Video Freq Flatness	±4 dB max	<b>±2.2dB</b>
13	Video Output Impedance	50Ω	<b>Pass</b>
14	RF In/Out Impedance	50Ω	<b>Pass</b>

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**LOGGING CHARACTERISTICS VS FREQUENCY @ +85C**

MODEL: SDLVA-218-65-16MV-12DBM  
SERIAL NO: PL23272  
DATE: 08/23/18  
TESTED BY: E.Benson  
Test Temp: +85C



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GRAPH #1

Video Output Voltage With No RF 0.101

Frequency	INTERCEPT (mV)	SLOPE (mV/dB)	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)	Measured Value (mV)	Error(dB)	MAX	MIN	LINEARITY ERROR (dB)		
2 GHz	-862	-15.1	-39	-112	-181	-262	-337	-401	-480	-554	-620	-707	-795	-869	-951	-1007								
			-7	-4	2	-3	-3	8	5	6	16	4	-9	-7	-14	6								
			0.45	0.29	-0.14	0.23	0.20	-0.55	-0.32	-0.41	-1.04	-0.27	0.57	0.47	0.91	-0.38						0.91	-1.04	
6 GHz	-870	-15.7	-4	-86	-170	-260	-335	-395	-466	-546	-622	-712	-800	-875	-961	-1021								
			5	2	-4	-16	-13	6	13	11	13	2	-8	-5	-12	6								
			-0.34	-0.10	0.27	1.02	0.81	-0.36	-0.83	-0.72	-0.86	-0.11	0.51	0.30	0.79	-0.38						1.02	-0.86	
10 GHz	-867	-15.8	3	-74	-153	-243	-327	-399	-469	-545	-620	-707	-794	-867	-952	-1022								
			2	4	4	-7	-12	-5	4	7	10	2	-6	0	-6	3								
			-0.14	-0.26	-0.25	0.45	0.77	0.34	-0.23	-0.41	-0.66	-0.15	0.36	-0.01	0.37	-0.19						0.77	-0.66	
14 GHz	-851	-16.0	28	-44	-130	-226	-318	-384	-447	-515	-591	-674	-768	-855	-946	-1019								
			1	9	3	-13	-25	-12	5	17	21	18	3	-4	-15	-8								
			-0.08	-0.57	-0.18	0.83	1.60	0.73	-0.32	-1.06	-1.30	-1.10	-0.22	0.23	0.93	0.50						1.60	-1.30	
18 GHz	-830	-15.3	21	-52	-136	-236	-324	-382	-444	-513	-577	-656	-749	-833	-919	-992								
			8	11	4	-19	-31	-12	3	10	23	21	4	-3	-12	-9								
			-0.51	-0.75	-0.27	1.25	1.99	0.77	-0.18	-0.68	-1.51	-1.36	-0.29	0.19	0.79	0.56						1.99	-1.51	
Flatness +/- dB			2.20	2.20	1.60	1.20	0.60	0.60	1.20	1.30	1.40	1.80	1.60	1.30	1.30	1.00								
Max Video Output Volts			0.028	-0.044	-0.130	-0.226	-0.318	-0.382	-0.444	-0.513	-0.577	-0.656	-0.749	-0.833	-0.919	-0.992								
Min Video Output Volts			-0.039	-0.112	-0.181	-0.262	-0.337	-0.401	-0.480	-0.554	-0.622	-0.712	-0.800	-0.875	-0.961	-1.022								
Log Slope Average: mV/dB																							-15.6	
Log Slope Variation: ± mV/dB																								0.44

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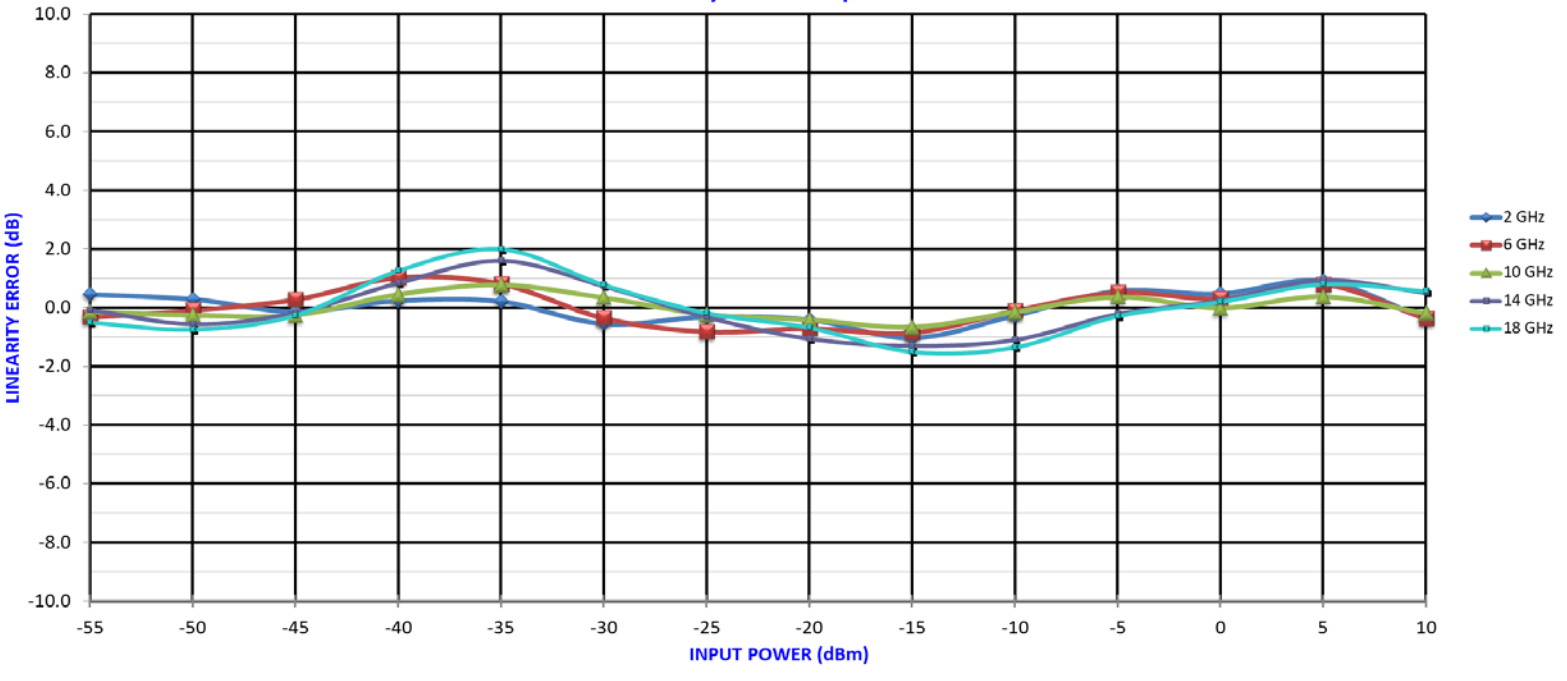


TYPICAL CHARACTERISTICS  
ON  
SDLVA-218-65-16MV-12DBM

S/N: PL23272

LOGGING CHARACTERISTICS VS FREQUENCY @ +85C

Linearity Error VS Input Power



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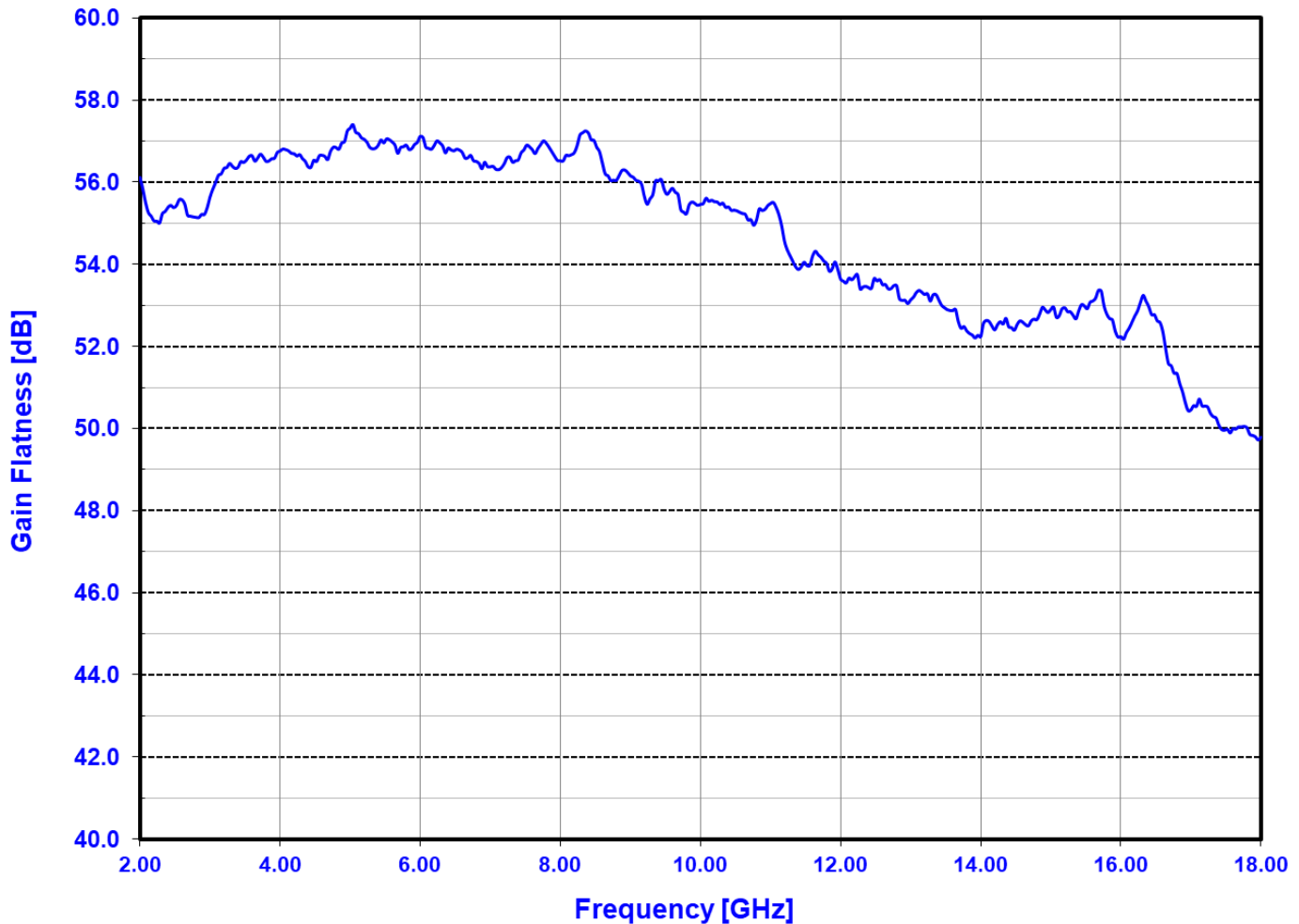


**TYPICAL CHARACTERISTICS  
ON  
SDLVA-218-65-16MV-12DBM**

S/N: PL23272

**TYPICAL RF OUTPUT SSG (not specified)**

**SMALL SIGNAL GAIN**



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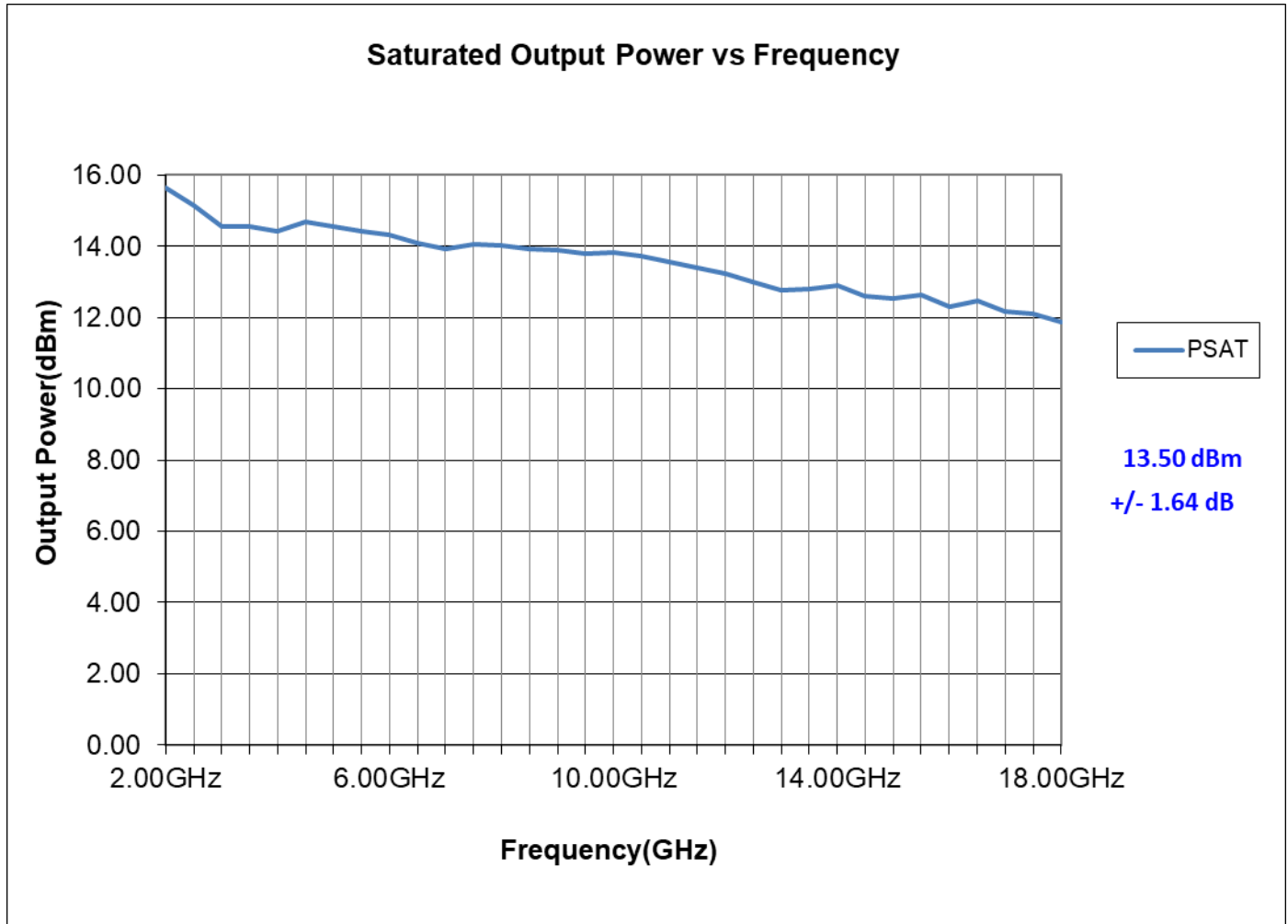




**TYPICAL CHARACTERISTICS  
ON  
SDLVA-218-65-16MV-12DBM**

S/N: PL23272

**TYPICAL P-SAT (not specified)**



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