



**SUMMARY TEST DATA  
ON  
SDLVA-26R5G40G-65-CD-1**

PL45432

<b>Customer:</b> _____	<b>Tested By:</b> <u>Anton L.</u>
<b>SO No:</b> _____	<b>Temperature:</b> <u>+25°C Unless Otherwise Specified</u>
<b>Model No:</b> <u>SDLVA-26R5G40G-65-CD-1</u>	<b>Date:</b> <u>04/30/2024</u>
<b>Serial No:</b> <u>PL45432/2418</u>	<b>Drawing No:</b> <u>27633292</u> <b>Rev.</b> <u>A2</u>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	26.5 to 40.0GHz	26.5 to 40.0 GHz	QA QC PMI QA3
2	TSS (See Graph #2)	-65 dBm Max.	-68.0 dBm	
3	Power Handling	+15dBm Max.	+15 dBm	
4	Dynamic Range:	-63dBm to +2dBm	-63 to +2 dBm	
5	Log Linearity: @+25C (See Graph #1)	± 2.0 dB Max.	+1.76 dB -1.48 dB	
6	Log Slope: (See Graph #1)	25 mV/dB Nom.	24.9 mV/dB	
7	Frequency Flatness: @+25C (See Graph #1)	±2.5dB Max.	±1.8 dB	
8	Pulse Width Range:	30ns to CW	30ns to CW	
9	Rise Time: (See Graph #3)	11ns Max. (8 ns Typ.)	6.8 ns	
10	Recovery Time: (See Graph #4)	60ns Max. (40 ns Typ.)	23.3 ns	
11	Delay Time:	15ns Max.	<15ns by design	
12	Input VSWR: (See Graph #5)	2.5:1 Max.	2.45:1	
13	Power Supply	+12V @ 400mA -12V @ 200mA	380 mA 160 mA	

QA/QC Approval: *K. [Signature]*      Date: 4-30-24



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**Model: SDLVA-26R5G40G-65-CD-1  
Graph #1  
Log Transfer vs Frequency @+25C**

Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)		
26.5 GHz	INTERCEPT (mV)	1717																
	SLOPE (mV/dB)	26.1																
			117	208	319	437	562	734	865	993	1119	1242	1383	1513	1643	1768	Measured Value (mV)	Error(dB)
		42	3	-16	-28	-34	8	9	6	2	-5	5	5	5	-1	Error (mV)	MAX	MIN
		1.63	0.12	-0.62	-1.09	-1.30	0.30	0.33	0.24	0.07	-0.21	0.20	0.19	0.17	-0.03	LINEARITY ERROR (dB)	1.63	-1.30
29.88 GHz	INTERCEPT (mV)	1702																
	SLOPE (mV/dB)	25.2																
			132	232	346	465	589	764	893	1022	1147	1270	1367	1483	1612	1741	Measured Value (mV)	Error(dB)
		18	-8	-20	-27	-29	20	23	26	25	22	-7	-17	-14	-11	Error (mV)	MAX	MIN
		0.71	-0.32	-0.80	-1.08	-1.15	0.79	0.91	1.03	0.99	0.87	-0.28	-0.68	-0.56	-0.44	LINEARITY ERROR (dB)	1.03	-1.15
33.25 GHz	INTERCEPT (mV)	1682																
	SLOPE (mV/dB)	25.1																
			117	207	318	440	570	759	893	1023	1149	1269	1346	1454	1579	1706	Measured Value (mV)	Error(dB)
		16	-19	-34	-37	-33	31	39	44	44	39	-10	-27	-28	-26	Error (mV)	MAX	MIN
		0.65	-0.76	-1.34	-1.48	-1.30	1.23	1.57	1.75	1.76	1.54	-0.39	-1.09	-1.11	-1.05	LINEARITY ERROR (dB)	1.76	-1.48
36.63 GHz	INTERCEPT (mV)	1651																
	SLOPE (mV/dB)	24.5																
			117	211	322	445	571	743	874	1002	1128	1244	1330	1424	1551	1678	Measured Value (mV)	Error(dB)
		11	-17	-29	-29	-25	24	32	38	41	35	-2	-31	-26	-22	Error (mV)	MAX	MIN
		0.46	-0.71	-1.18	-1.17	-1.03	0.98	1.32	1.54	1.68	1.41	-0.08	-1.25	-1.07	-0.89	LINEARITY ERROR (dB)	1.68	-1.25
40 GHz	INTERCEPT (mV)	1657																
	SLOPE (mV/dB)	23.6																
			176	284	402	524	637	755	878	1009	1136	1262	1343	1447	1576	1704	Measured Value (mV)	Error(dB)
		4	-6	-6	-2	-6	-6	-1	12	21	29	-7	-21	-10	0	Error (mV)	MAX	MIN
		0.16	-0.25	-0.25	-0.07	-0.28	-0.27	-0.05	0.51	0.90	1.25	-0.32	-0.90	-0.43	0.00	LINEARITY ERROR (dB)	1.25	-0.90
Flatness +/- dB		1.20	1.50	1.70	1.70	1.50	0.60	0.60	0.60	0.60	0.60	1.10	1.80	1.80	1.80			
Max Video Output Volts		0.176	0.284	0.402	0.524	0.637	0.764	0.893	1.023	1.149	1.270	1.383	1.513	1.643	1.768			
Min Video Output Volts		0.117	0.207	0.318	0.437	0.562	0.734	0.865	0.993	1.119	1.242	1.330	1.424	1.551	1.678			
Video Output @ -63dBm	Spec.																	
Min(V)=	0.117	0.065														Log Slope Average: mV/dB	24.9	
Max(V)=	0.176	0.280														Log Slope Variation: ± mV/dB	1.25	
Video Output @ +2dBm	Spec.																	
Min(V)=	1.678	1.476														Video Output Voltage With No RF	0.029	
Max(V)=	1.768	1.940																



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**Graph #1 (cont.)**  
**Log Transfer vs Frequency @+25C**





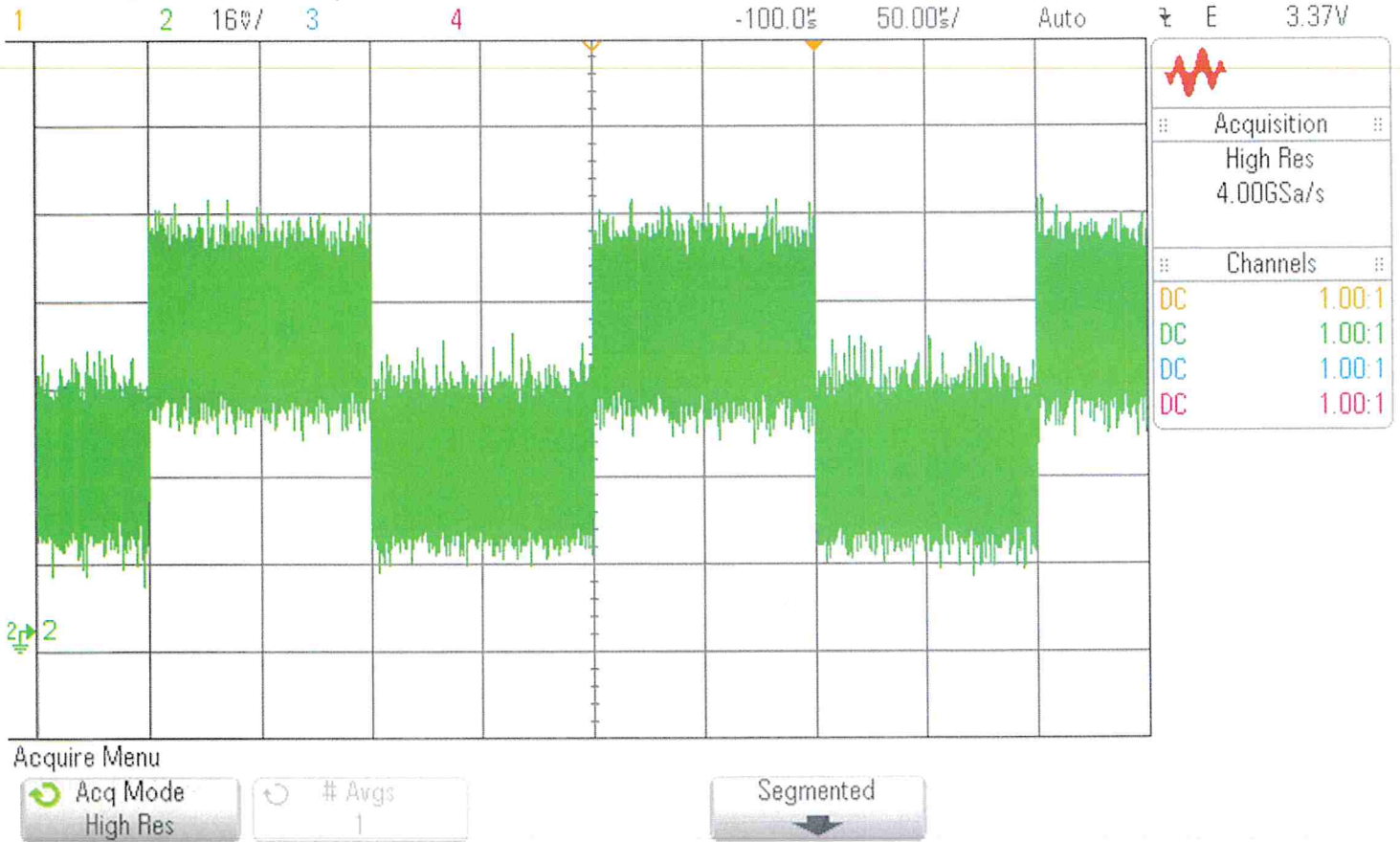
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Model: SDLVA-26R5G40G-65-CD-1

Graph #2  
TSS-68.0 dBm @+25C

DSO-X 3024A, MY54490369: Tue Apr 30 12:15:39 2024





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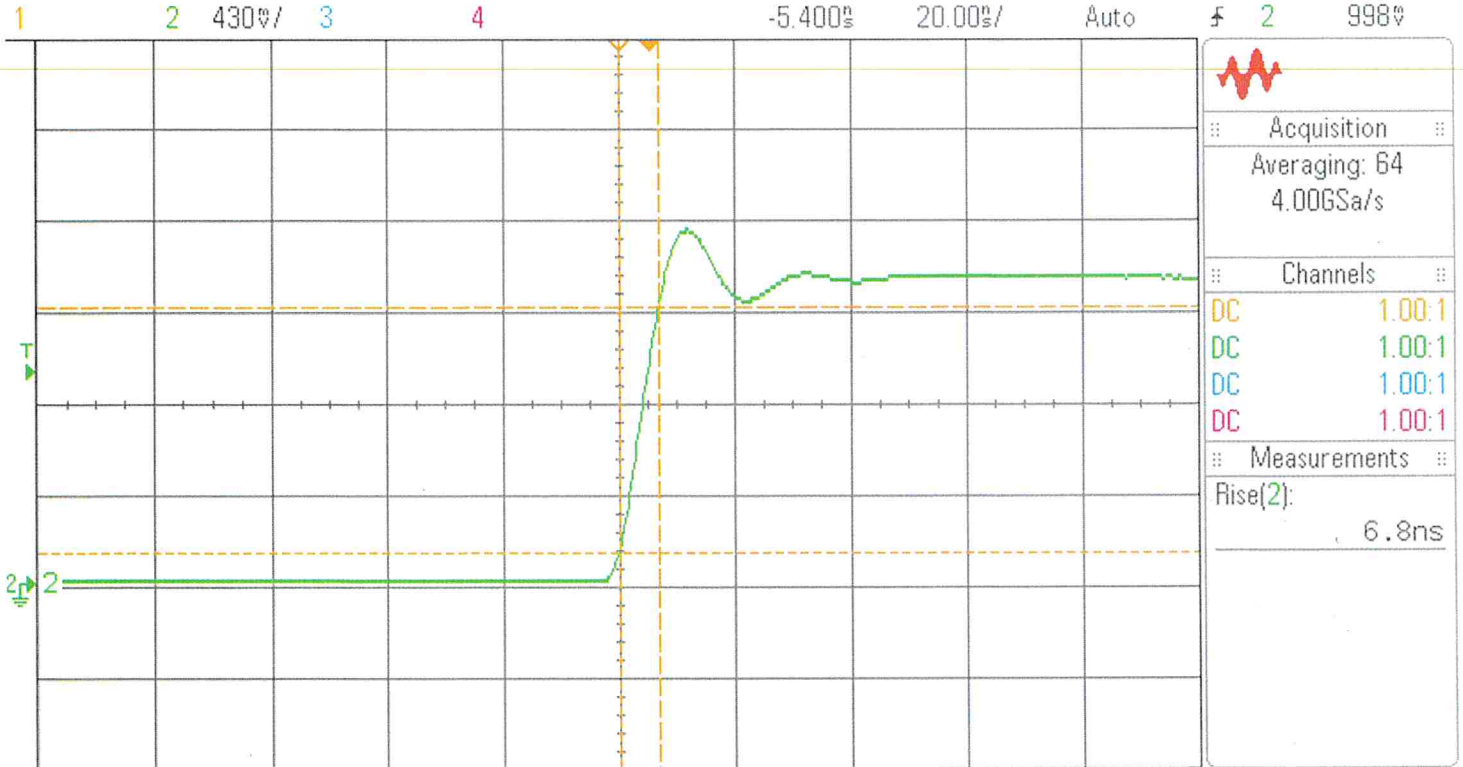
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Model: SDLVA-26R5G40G-65-CD-1

Graph#3

Rise Time 6.8ns @+25C & +2dBm

DSO-X 3024A, MY54490369: Tue Apr 30 11:58:28 2024



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Save Recall Default/Erase Press to Save



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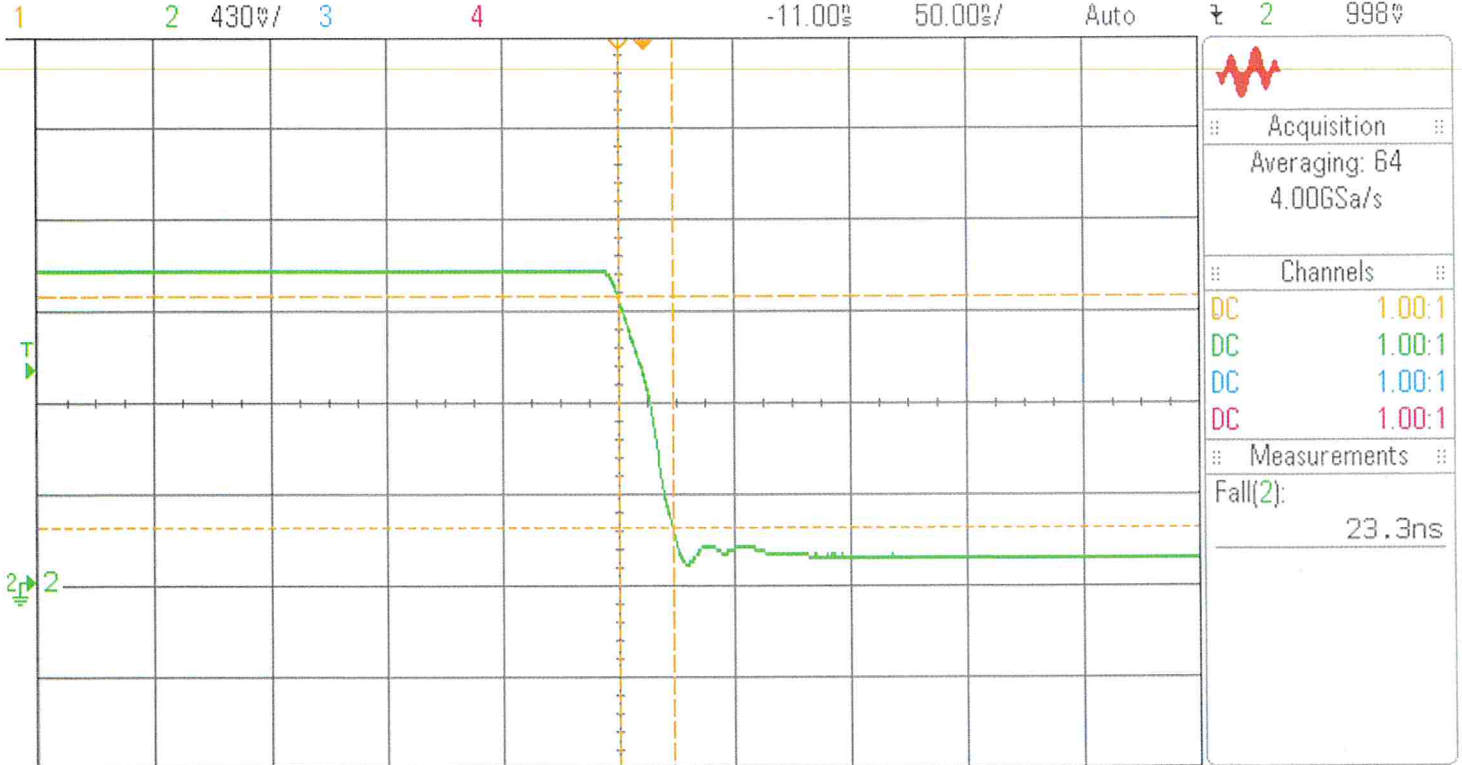
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Model: SDLVA-26R5G40G-65-CD-1

Graph#4

Recovery Time 23.3ns @+25C & +2dBm

DSO-X 3024A, MY54490369: Tue Apr 30 12:03:14 2024



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Save Recall Default/Erase Press to Save



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Model: SDLVA-26R5G40G-65-CD-1

Graph #5

VSWR 2.45:1 @+25C & -20dBm

