



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

PL45447

Customer: \_\_\_\_\_ Tested By: Anton L.  
SO No: \_\_\_\_\_ Temperature: +25°C Unless Otherwise Specified  
Model No: SDLVA-26R5G40G-65-CD-1 Date: 04/30/2024  
Serial No: PL45447/2418 Drawing No: 27633292 Rev. A2

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	26.5 to 40.0GHz	26.5 to 40.0 GHz	PMI QAS
2	TSS (See Graph #2)	-65 dBm Max.	-69.5 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.	+1.30 dB -1.21 dB	
6	Log Slope: (See Graph #1)	25 mV/dB Nom.	25.3 mV/dB	
7	Frequency Flatness: @+25C (See Graph #1)	±2.5dB Max.	±1.4 dB	
8	Pulse Width Range:	30ns to CW	30ns to CW	
9	Rise Time: (See Graph #3)	11ns Max. (8 ns Typ.)	7.0 ns	
10	Recovery Time: (See Graph #4)	60ns Max. (40 ns Typ.)	20.3 ns	
11	Delay Time:	15ns Max.	<15ns by design	
12	Input VSWR: (See Graph #5)	2.5:1 Max.	2.46:1	
13	Power Supply	+12V @ 400mA -12V @ 200mA	400 mA 160 mA	

QA/QC Approval:  Date: 4-30-24



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

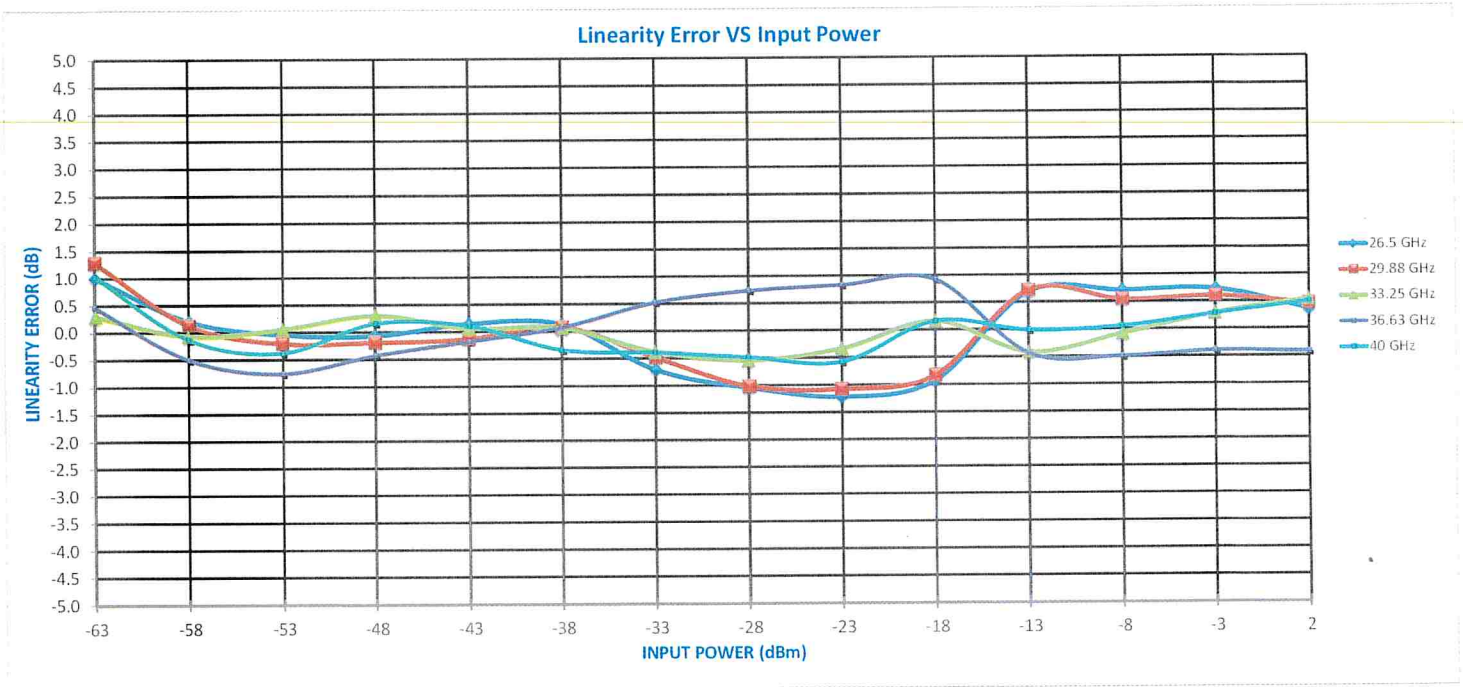
Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)			
26.5 GHz	INTERCEPT (mV)	120	228	350	478	612	740	847	967	1091	1227	1397	1526	1655	1774		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	26	5	-1	-2	4	3	-18	-27	-31	-24	18	18	19	9		Error (mV)	MAX	MIN
		1.00	0.21	-0.05	-0.07	0.15	0.13	-0.71	-1.04	-1.21	-0.92	0.69	0.71	0.73	0.36		LINEARITY ERROR (dB)	1.00	-1.21
29.88 GHz	INTERCEPT (mV)	107	205	324	452	581	714	827	941	1067	1201	1368	1491	1620	1744		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	33	4	-5	-5	-3	2	-12	-26	-27	-21	19	14	15	12		Error (mV)	MAX	MIN
		1.30	0.14	-0.20	-0.18	-0.12	0.09	-0.48	-1.01	-1.07	-0.82	0.73	0.55	0.61	0.47		LINEARITY ERROR (dB)	1.30	-1.07
33.25 GHz	INTERCEPT (mV)	136	249	374	502	618	740	851	969	1096	1230	1338	1468	1599	1727		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	7	-2	1	8	2	2	-9	-13	-8	4	-10	-2	7	13		Error (mV)	MAX	MIN
		0.30	-0.07	0.06	0.31	0.07	0.07	-0.38	-0.54	-0.33	0.16	-0.41	-0.08	0.29	0.54		LINEARITY ERROR (dB)	0.54	-0.54
36.63 GHz	INTERCEPT (mV)	106	209	330	466	600	734	873	1006	1136	1266	1359	1485	1615	1742		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	12	-13	-19	-11	-4	2	13	19	21	24	-11	-12	-10	-11		Error (mV)	MAX	MIN
		0.47	-0.50	-0.75	-0.42	-0.17	0.08	0.53	0.74	0.83	0.93	-0.43	-0.49	-0.39	-0.42		LINEARITY ERROR (dB)	0.93	-0.75
40 GHz	INTERCEPT (mV)	103	200	320	460	585	700	825	949	1073	1218	1340	1468	1600	1732		Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	26	-3	-10	4	3	-9	-10	-12	-15	4	0	1	7	13		Error (mV)	MAX	MIN
		1.03	-0.13	-0.38	0.16	0.11	-0.34	-0.39	-0.48	-0.58	0.16	-0.01	0.06	0.28	0.51		LINEARITY ERROR (dB)	1.03	-0.58
Flatness +/- dB		0.70	1.00	1.10	1.00	0.70	0.80	0.90	1.30	1.40	1.30	1.20	1.10	1.10	0.90				
Max Video Output Volts		0.136	0.249	0.374	0.502	0.618	0.740	0.873	1.006	1.136	1.266	1.397	1.526	1.655	1.774				
Min Video Output Volts		0.103	0.200	0.320	0.452	0.581	0.700	0.825	0.941	1.067	1.201	1.338	1.468	1.599	1.727				
Video Output @ -63dBm	Spec.																		
Min(V)=	0.103																		
Max(V)=	0.136																		
Log Slope Average: mV/dB	25.3																		
Log Slope Variation: ± mV/dB	0.66																		
Video Output @ +2dBm	Spec.																		
Min(V)=	1.727																		
Max(V)=	1.774																		
Video Output Voltage With No RF	0.003																		



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





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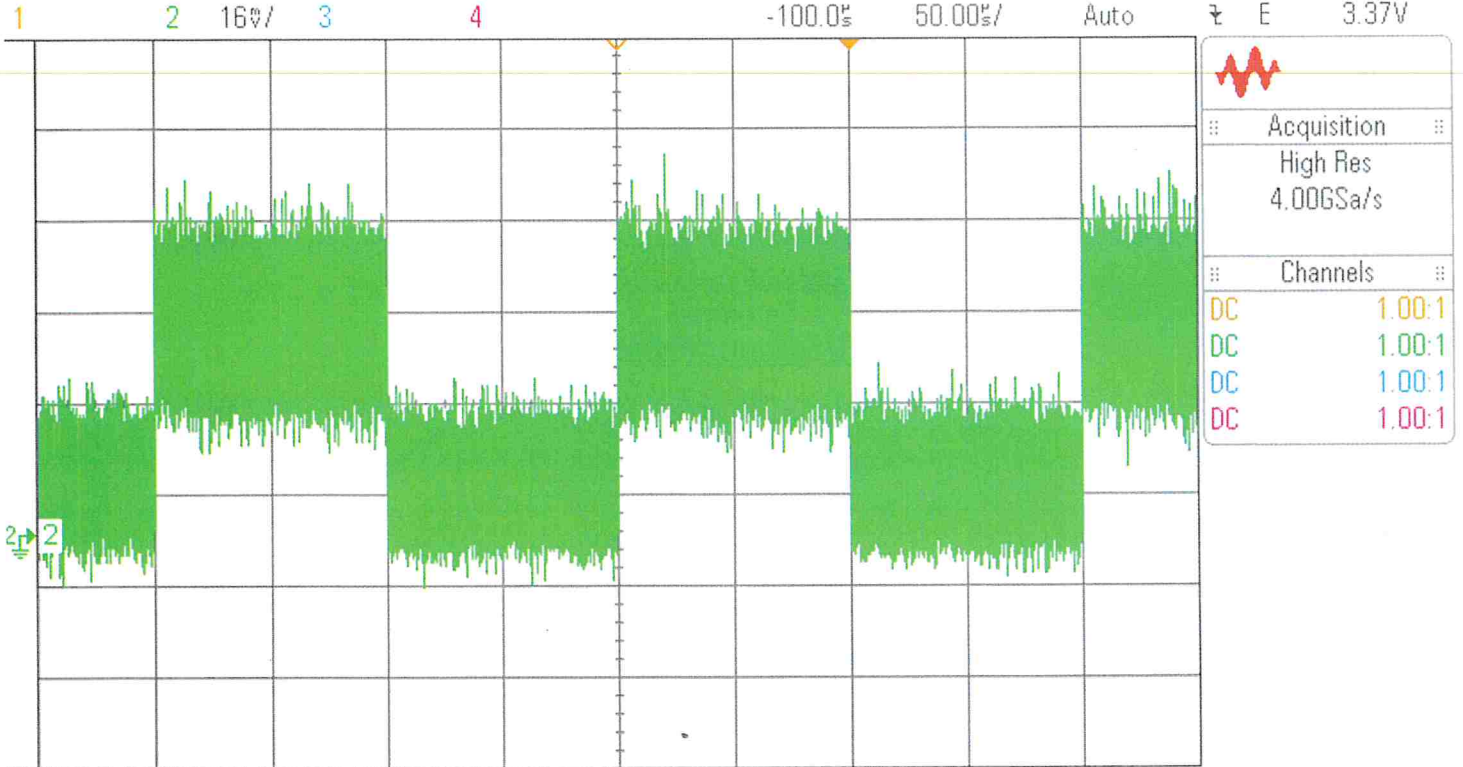
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Model: SDLVA-26R5G40G-65-CD-1

Graph #2

TSS-69.5 dBm @+25C

DSO-X 3024A, MY54490369: Tue Apr 30 12:17:46 2024



Acquire Menu

Acq Mode  
High Res

# Avgs  
1

Segmented



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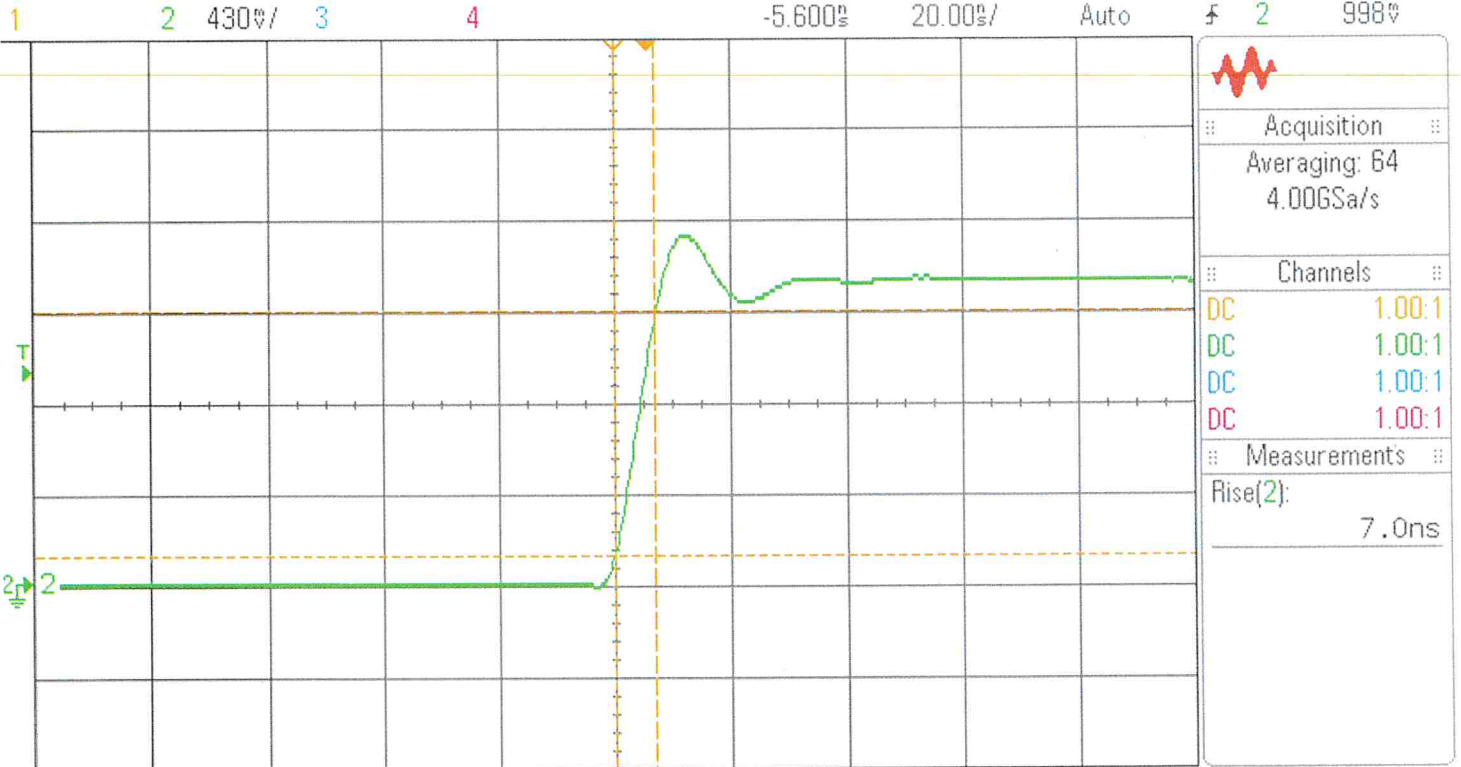
PL45447

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

**Graph#3**

**Rise Time 7.0ns @+25C & +2dBm**

DSO-X 3024A, MY54490369, Tue Apr 30 12:00:14 2024



Save to file = 447r

Save Recall Default/Erase

Press to Save



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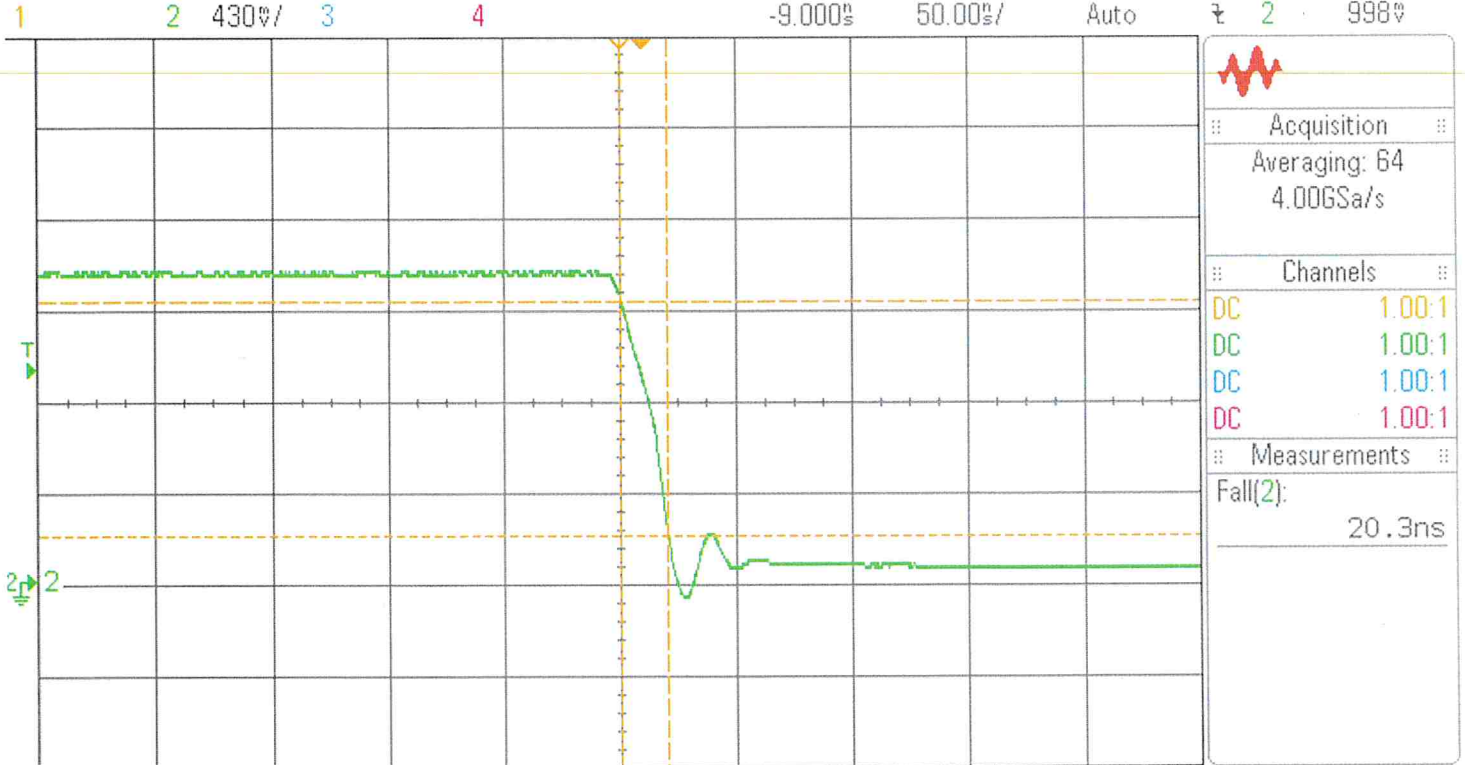
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Model: SDLVA-26R5G40G-65-CD-1

Graph#4

Recovery Time 20.3ns @+25C & +2dBm

DSO-X 3024A, MY54490369: Tue Apr 30 12:01:39 2024



Trigger Menu

Trigger Type: Edge Source: 2 Slope:  $\uparrow$



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**Graph #5**

**VSWR 2.46:1 @+25C & -20dBm**

