



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

PL45431

Customer: \_\_\_\_\_ Tested By: Anton L.  
SO No: \_\_\_\_\_ Temperature: +25°C Unless Otherwise Specified  
Model No: SDLVA-26R5G40G-65-CD-1 Date: 05/15/2024  
Serial No: PL45431/2420 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	QA QC PMI 043
2	TSS (See Graph #2)	-65 dBm Max.	-71.0 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.	+1.06 dB -1.32 dB	
6	Log Slope: (See Graph #1)	25 mV/dB Nom.	24.6 mV/dB	
7	Frequency Flatness: @+25C (See Graph #1)	±2.5dB Max.	±1.5 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.)	31.0 ns	
11	Delay Time:	15ns Max.	<15ns by design	
12	Input VSWR: (See Graph #5)	2.5:1 Max.	2.25:1	
13	Power Supply	+12V @ 400mA -12V @ 200mA	390 mA 160 mA	

QA/QC Approval: K. [Signature] Date: 5-15-24

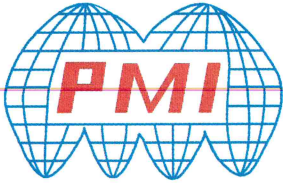


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**Model: SDLVA-26R5G40G-65-CD-1  
Graph #1  
Log Transfer vs Frequency @+25C**

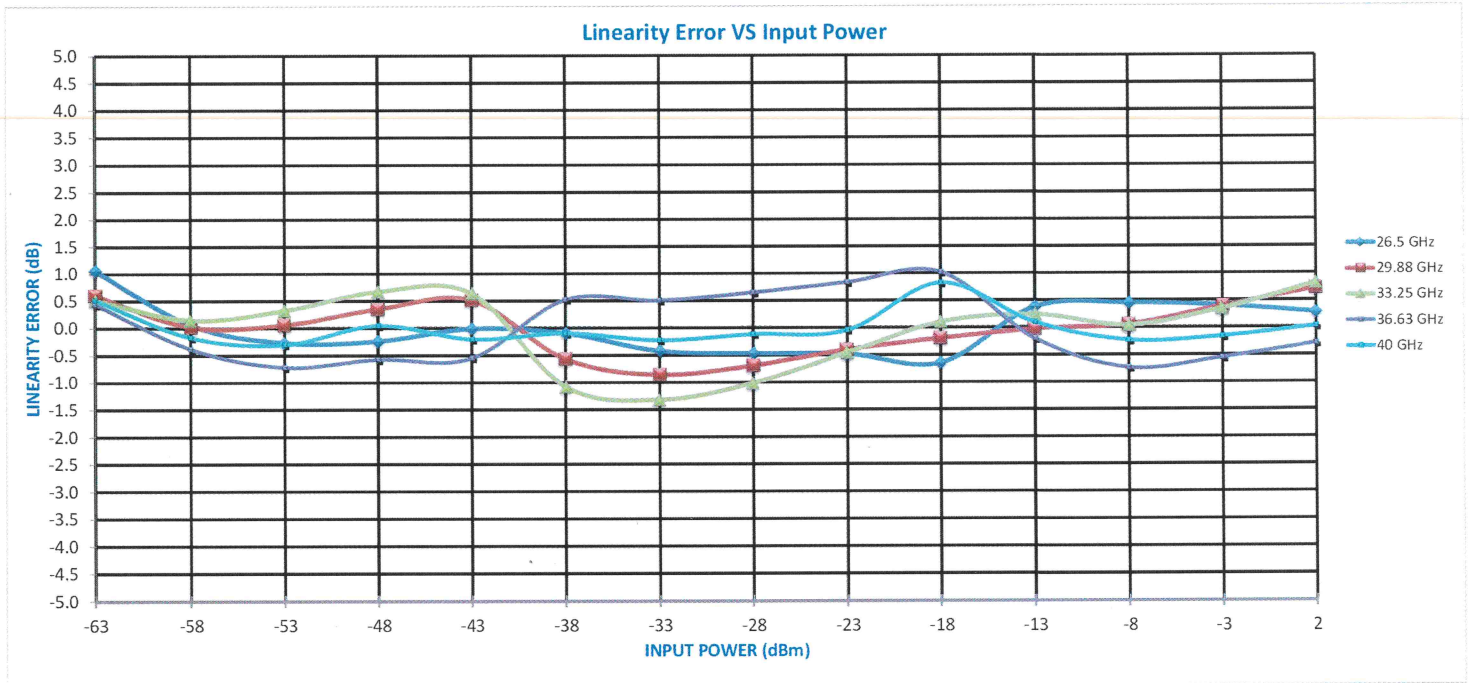
Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)			
26.5 GHz	INTERCEPT (mV)	1692															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	25.2	128	229	347	474	606	730	848	973	1099	1221	1373	1501	1626	1749		MAX	MIN
			27	1	-7	-6	0	-2	-11	-12	-12	-16	10	11	10	7		1.06	-0.64
			1.06	0.06	-0.27	-0.24	-0.01	-0.09	-0.42	-0.47	-0.48	-0.64	0.38	0.45	0.40	0.27			
29.88 GHz	INTERCEPT (mV)	1639															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.0	141	247	368	495	619	713	826	950	1077	1202	1326	1448	1576	1704		MAX	MIN
			15	1	1	8	12	-14	-21	-17	-10	-5	-1	1	9	17		0.72	-0.86
			0.60	0.02	0.06	0.35	0.52	-0.56	-0.86	-0.69	-0.40	-0.19	-0.03	0.06	0.39	0.72			
33.25 GHz	INTERCEPT (mV)	1635															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	23.8	151	261	384	511	629	707	820	946	1078	1210	1332	1446	1572	1702		MAX	MIN
			12	4	8	16	15	-26	-31	-24	-11	2	6	1	8	19		0.82	-1.32
			0.52	0.15	0.33	0.67	0.64	-1.07	-1.32	-1.01	-0.45	0.10	0.24	0.04	0.35	0.82			
36.63 GHz	INTERCEPT (mV)	1675															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.9	119	223	339	467	592	743	867	995	1124	1253	1347	1458	1587	1718		MAX	MIN
			11	-9	-18	-14	-14	13	13	16	21	25	-5	-18	-14	-7		1.02	-0.74
			0.44	-0.38	-0.72	-0.57	-0.55	0.52	0.51	0.65	0.84	1.02	-0.20	-0.74	-0.55	-0.29			
40 GHz	INTERCEPT (mV)	1704															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	25.1	139	247	369	503	622	750	872	1000	1127	1274	1381	1498	1625	1755		MAX	MIN
			13	-4	-7	1	-5	-2	-6	-3	-1	21	2	-6	-4	1		0.83	-0.30
			0.52	-0.17	-0.30	0.05	-0.20	-0.09	-0.22	-0.11	-0.04	0.83	0.10	-0.23	-0.16	0.03			
Flatness +/- dB		0.70	0.80	0.90	0.90	0.80	0.90	1.10	1.10	1.00	1.50	1.10	1.10	1.10	1.10				
Max Video Output Volts		0.151	0.261	0.384	0.511	0.629	0.750	0.872	1.000	1.127	1.274	1.381	1.501	1.626	1.755				
Min Video Output Volts		0.119	0.223	0.339	0.467	0.592	0.707	0.820	0.946	1.077	1.202	1.326	1.446	1.572	1.702				
Video Output @ -63dBm	Spec.																		
Min(V)=		0.119	0.065																
Max(V)=		0.151	0.280																
Log Slope Average: mV/dB																			
Log Slope Variation: ± mV/dB																			
Video Output @ +2dBm	Spec.																		
Min(V)=		1.702	1.476																
Max(V)=		1.755	1.940																
Video Output Voltage With No RF																			
																		0.018	

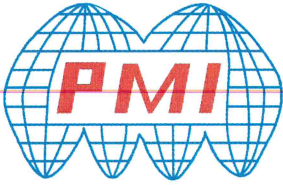


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Model: SDLVA-26R5G40G-65-CD-1  
Graph #1 (cont.)  
Log Transfer vs Frequency @+25C





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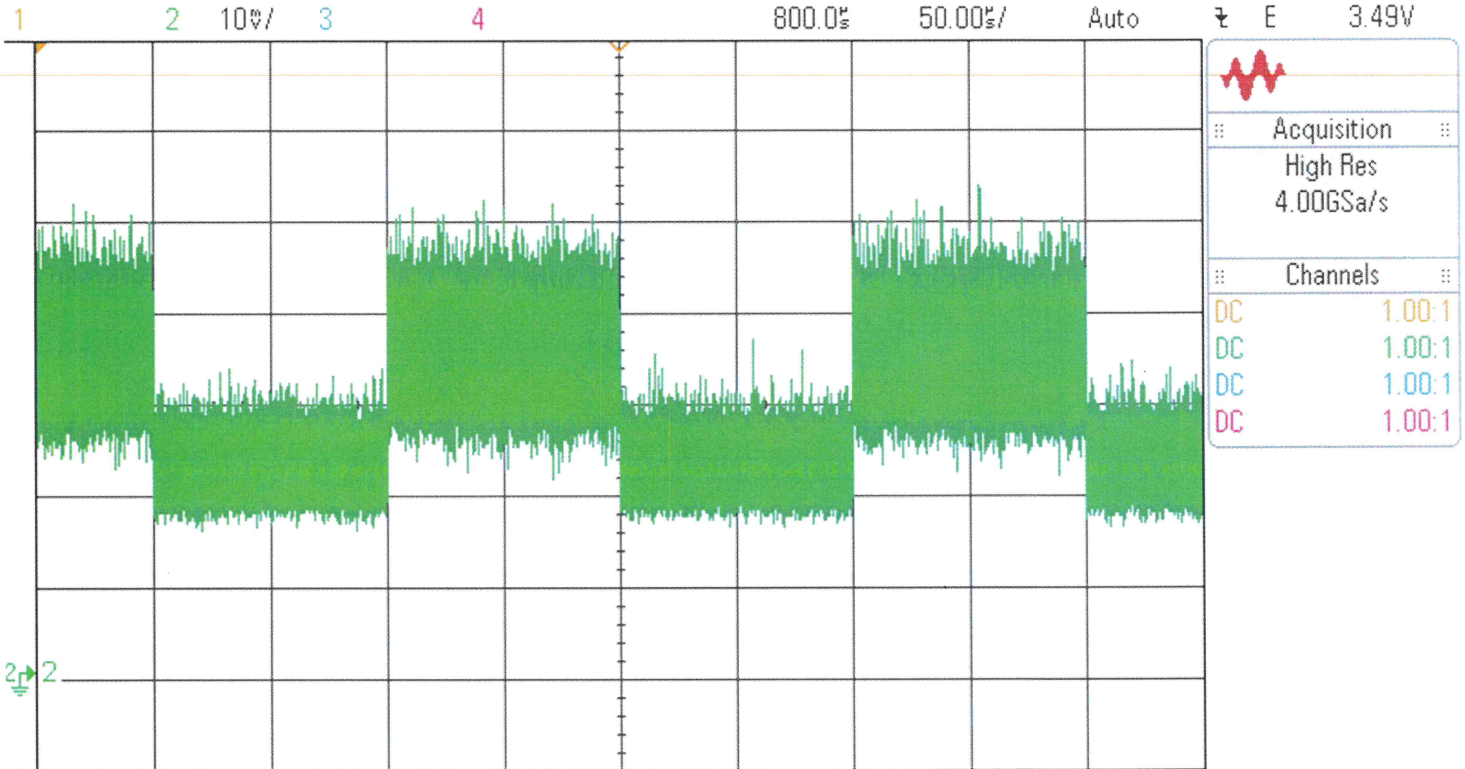
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**Model: SDLVA-26R5G40G-65-CD-1**

**Graph #2**

**TSS-71.0 dBm @+25C**

DSO-X 3024A, MY54490369: Tue May 14 11:00:43 2024

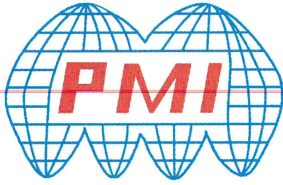


Acquire Menu

Acq Mode  
High Res

# Avgs  
1

Segmented

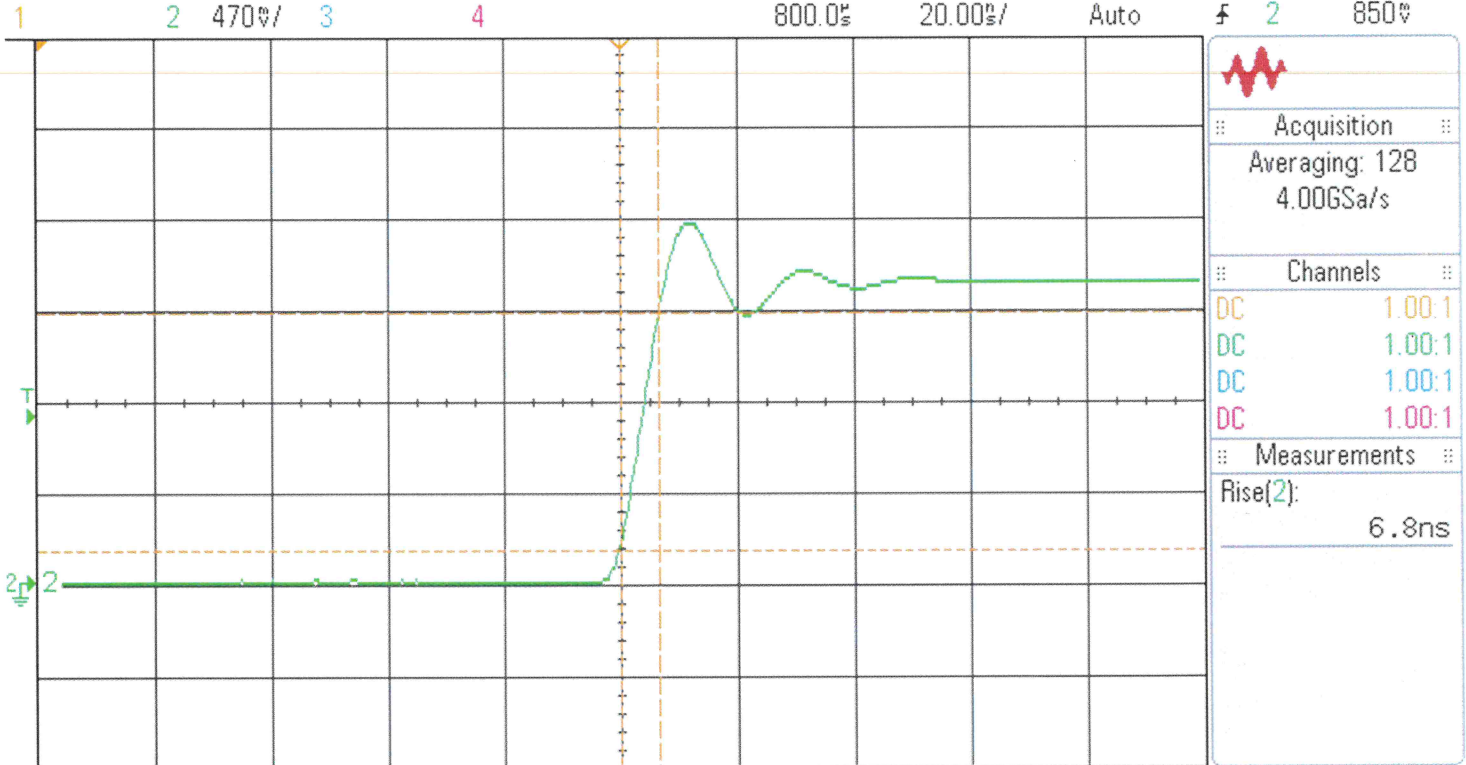


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**Model: SDLVA-26R5G40G-65-CD-1**  
**Graph#3**  
**Rise Time 6.8ns @+25C & +2dBm**

DSO-X 3024A, MY54490369: Tue May 14 10:55:06 2024



Trigger Menu

Trigger Type: Edge  
Source: 2  
Slope: f

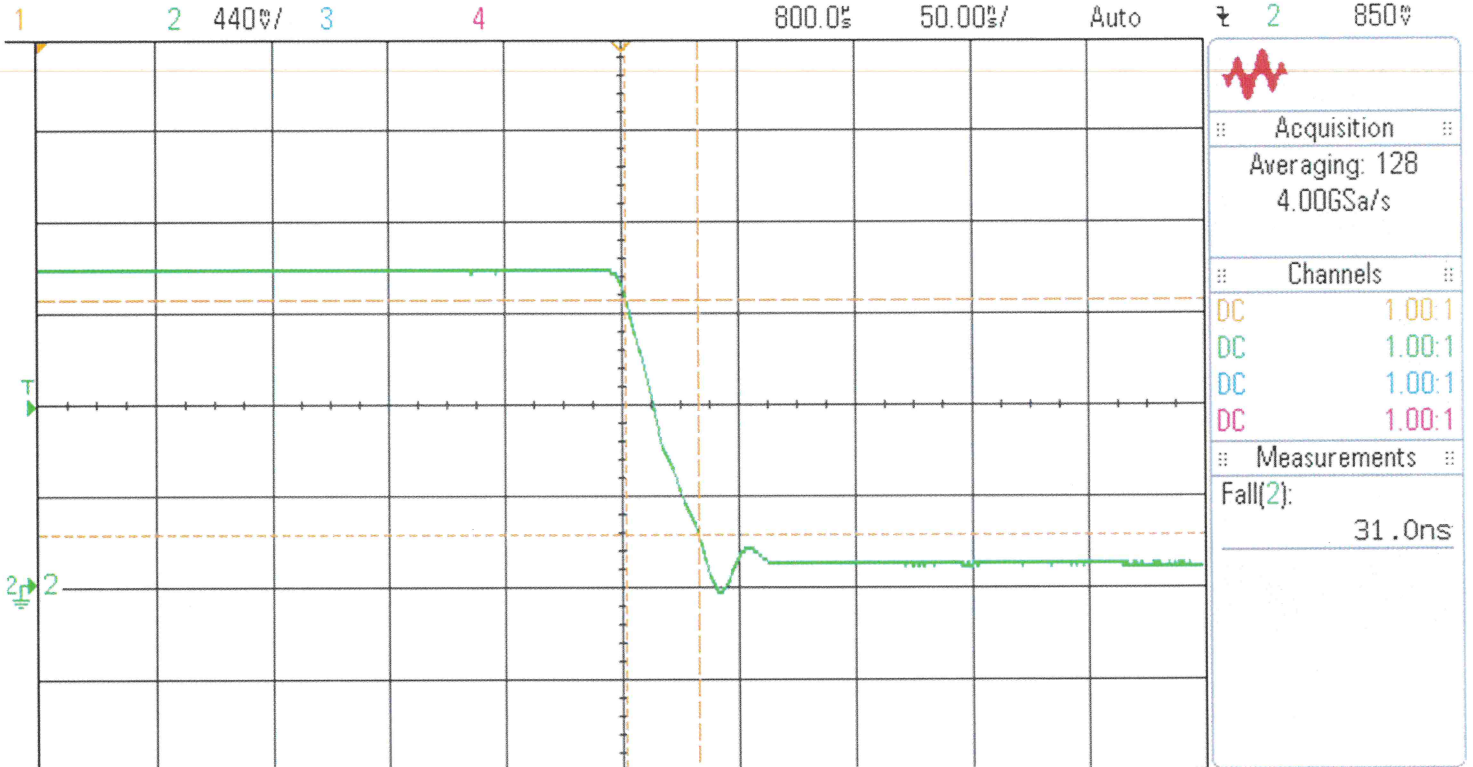


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Model: SDLVA-26R5G40G-65-CD-1  
Graph#4  
Recovery Time 31.0ns @+25C & +2dBm

DSO-X 3024A, MY54490369: Tue May 14 10:58:57 2024



Trigger Menu

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



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Graph #5

VSWR 2.25:1 @+25C & -20dBm

