

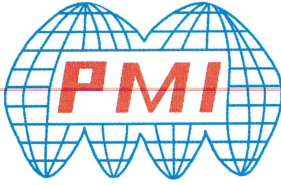
**SUMMARY TEST DATA
ON
SDLVA-26R5G40G-65-CD-1**

PL45448

Customer: _____	Tested By: <u>Anton L.</u>
SO No: _____	Temperature: <u>+25°C Unless Otherwise Specified</u>
Model No: <u>SDLVA-26R5G40G-65-CD-1</u>	Date: <u>05/15/2024</u>
Serial No: <u>PL45448/2420</u>	Drawing No: <u>27633292</u> Rev. <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	PMI QAS
2	TSS (See Graph #2)	-65 dBm Max.	-73.5 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.	+1.17 dB -1.13 dB	
6	Log Slope: (See Graph #1)	25 mV/dB Nom.	0.53 mV/dB	
7	Frequency Flatness: @+25C (See Graph #1)	±2.5dB Max.	±1.3 dB	
8	Pulse Width Range:	30ns to CW	30ns to CW	
9	Rise Time: (See Graph #3)	11ns Max. (8 ns Typ.)	8.0 ns	
10	Recovery Time: (See Graph #4)	60ns Max. (40 ns Typ.)	33.0 ns	
11	Delay Time:	15ns Max.	<15ns by design	
12	Input VSWR: (See Graph #5)	2.5:1 Max.	1.9:1	
13	Power Supply	+12V @ 400mA -12V @ 200mA	400 mA 160 mA	

QA/QC Approval: Date: 5-15-24



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

PL45448

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

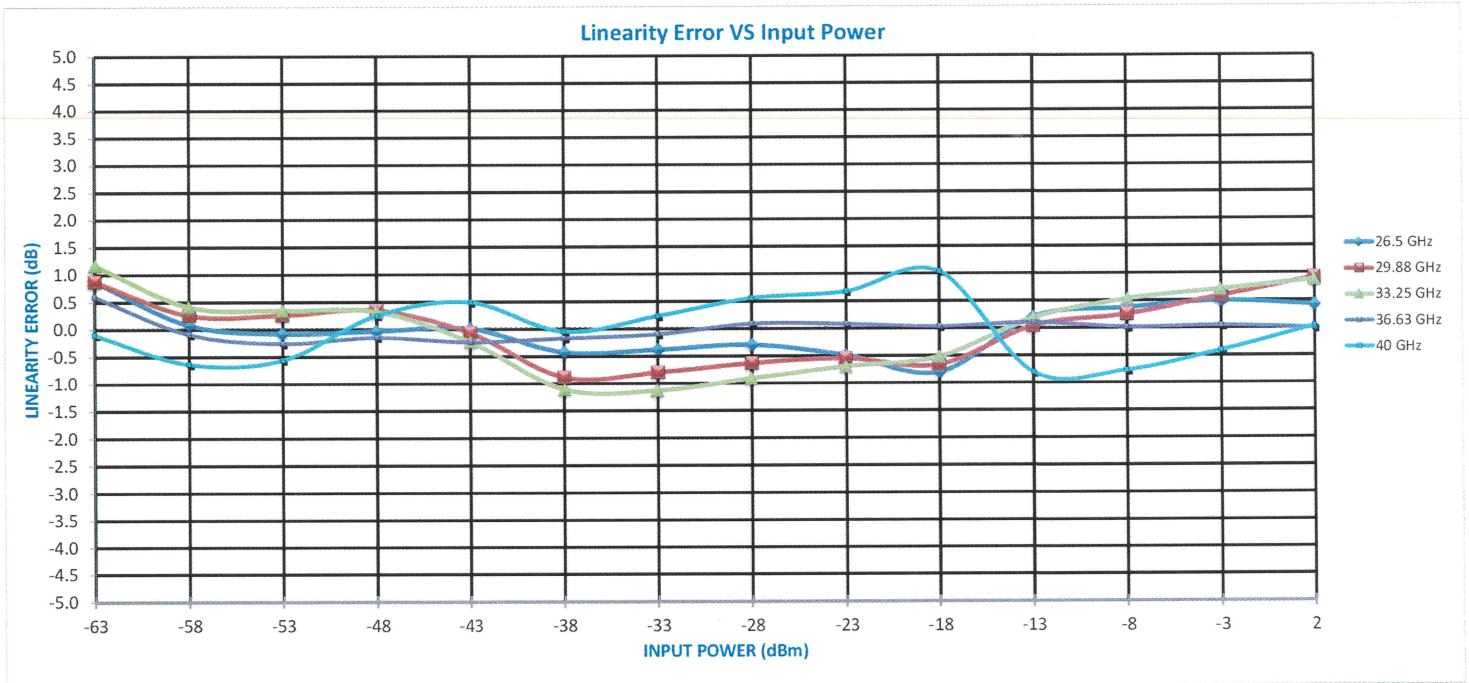
Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)			
26.5 GHz	INTERCEPT (mV)	1721															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	25.0	169	274	395	521	647	761	887	1014	1134	1251	1401	1530	1658	1781	Error (mV)	MAX	MIN
			22	2	-2	-1	0	-10	-9	-7	-12	-20	5	9	12	10	LINEARITY ERROR (dB)	0.88	-0.80
			0.88	0.08	-0.07	-0.03	0.02	-0.42	-0.37	-0.29	-0.48	-0.80	0.21	0.37	0.50	0.42			
29.88 GHz	INTERCEPT (mV)	1678															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.2	176	282	403	526	637	738	861	986	1109	1227	1365	1491	1620	1749	Error (mV)	MAX	MIN
			21	6	6	9	-1	-21	-19	-15	-13	-16	1	6	14	22	LINEARITY ERROR (dB)	0.92	-0.88
			0.88	0.26	0.27	0.35	-0.06	-0.88	-0.80	-0.63	-0.54	-0.66	0.04	0.25	0.59	0.92			
33.25 GHz	INTERCEPT (mV)	1685															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.7	156	261	383	506	616	718	841	970	1099	1227	1368	1500	1628	1756	Error (mV)	MAX	MIN
			29	10	9	8	-6	-27	-28	-22	-17	-13	5	13	17	22	LINEARITY ERROR (dB)	1.17	-1.13
			1.17	0.42	0.35	0.33	-0.23	-1.10	-1.13	-0.91	-0.69	-0.51	0.19	0.53	0.70	0.88			
36.63 GHz	INTERCEPT (mV)	1724															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.2	148	257	379	508	632	760	888	1019	1145	1270	1398	1522	1649	1774	Error (mV)	MAX	MIN
			15	-2	-6	-4	-6	-4	-2	2	2	1	3	0	1	0	LINEARITY ERROR (dB)	0.60	-0.25
			0.60	-0.08	-0.25	-0.14	-0.23	-0.16	-0.09	0.09	0.08	0.03	0.10	0.02	0.04	0.00			
40 GHz	INTERCEPT (mV)	1704															Measured Value (mV)	Error(dB)	
	SLOPE (mV/dB)	24.4	163	272	396	538	666	775	904	1034	1159	1290	1367	1490	1621	1754	Error (mV)	MAX	MIN
			-2	-15	-14	6	12	-1	6	14	17	25	-20	-19	-10	1	LINEARITY ERROR (dB)	1.04	-0.81
			-0.09	-0.63	-0.56	0.26	0.50	-0.04	0.24	0.56	0.68	1.04	-0.81	-0.77	-0.41	0.04			
Flatness +/- dB	0.60	0.50	0.50	0.60	1.00	1.20	1.30	1.30	1.20	1.30	0.70	0.80	0.80	0.60					
Max Video Output Volts	0.176	0.282	0.403	0.538	0.666	0.775	0.904	1.034	1.159	1.290	1.401	1.530	1.658	1.781					
Min Video Output Volts	0.148	0.257	0.379	0.506	0.616	0.718	0.841	0.970	1.099	1.227	1.365	1.490	1.620	1.749					
Video Output @ -63dBm	Spec.	Log Slope Average: mV/dB		24.7		Log Slope Variation: ± mV/dB		0.53											
Min(V)=	0.148																		
Max(V)=	0.176																		
Video Output @ +2dBm	Spec.	Video Output Voltage With No RF														0.038			
Min(V)=	1.749															1.476			
Max(V)=	1.781															1.940			



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





**SUMMARY TEST DATA
ON
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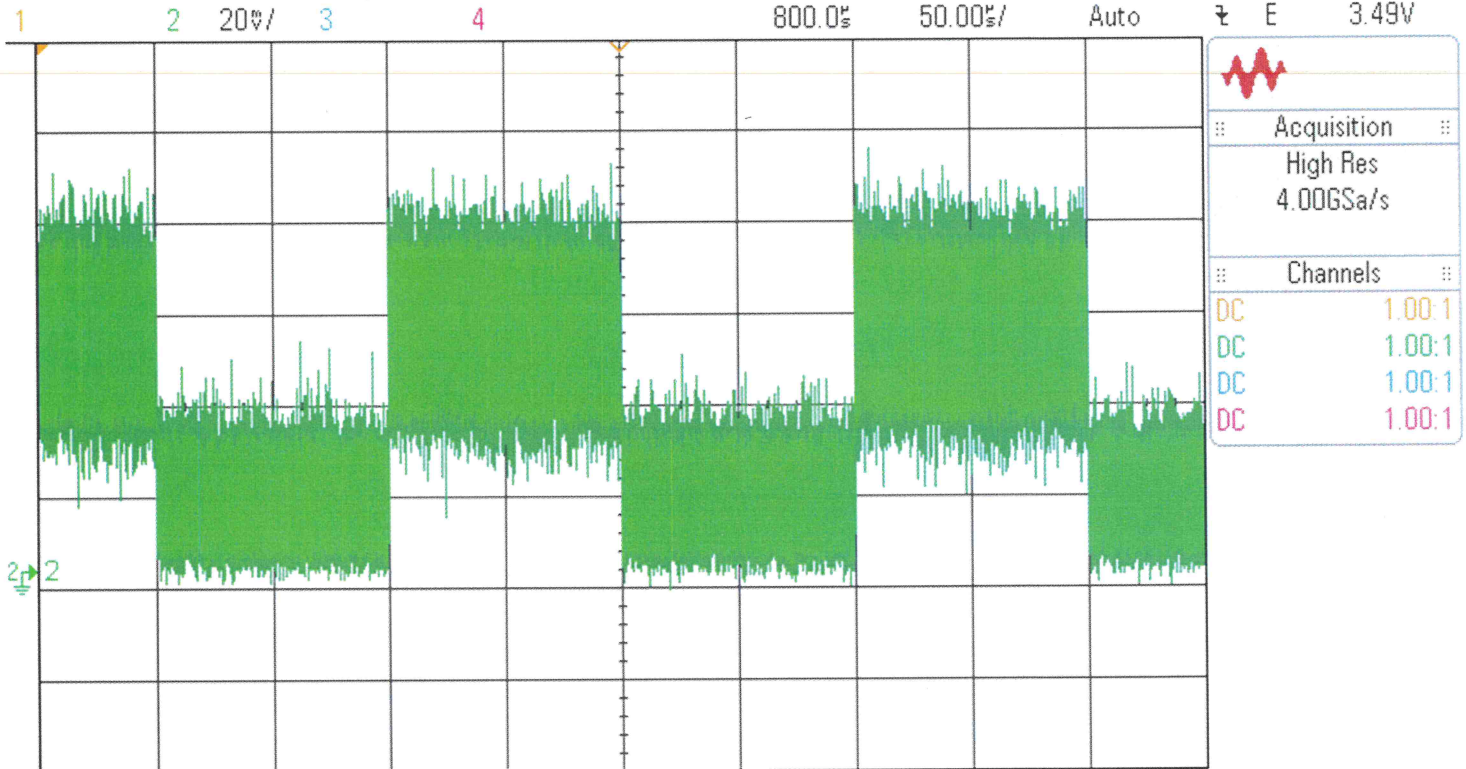
PL45448

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

Graph #2

TSS-73.5 dBm @+25C

DSO-X 3024A, MY54490369: Tue May 14 11:03:09 2024



Acquire Menu

Acq Mode
High Res

Avgs
1

Segmented

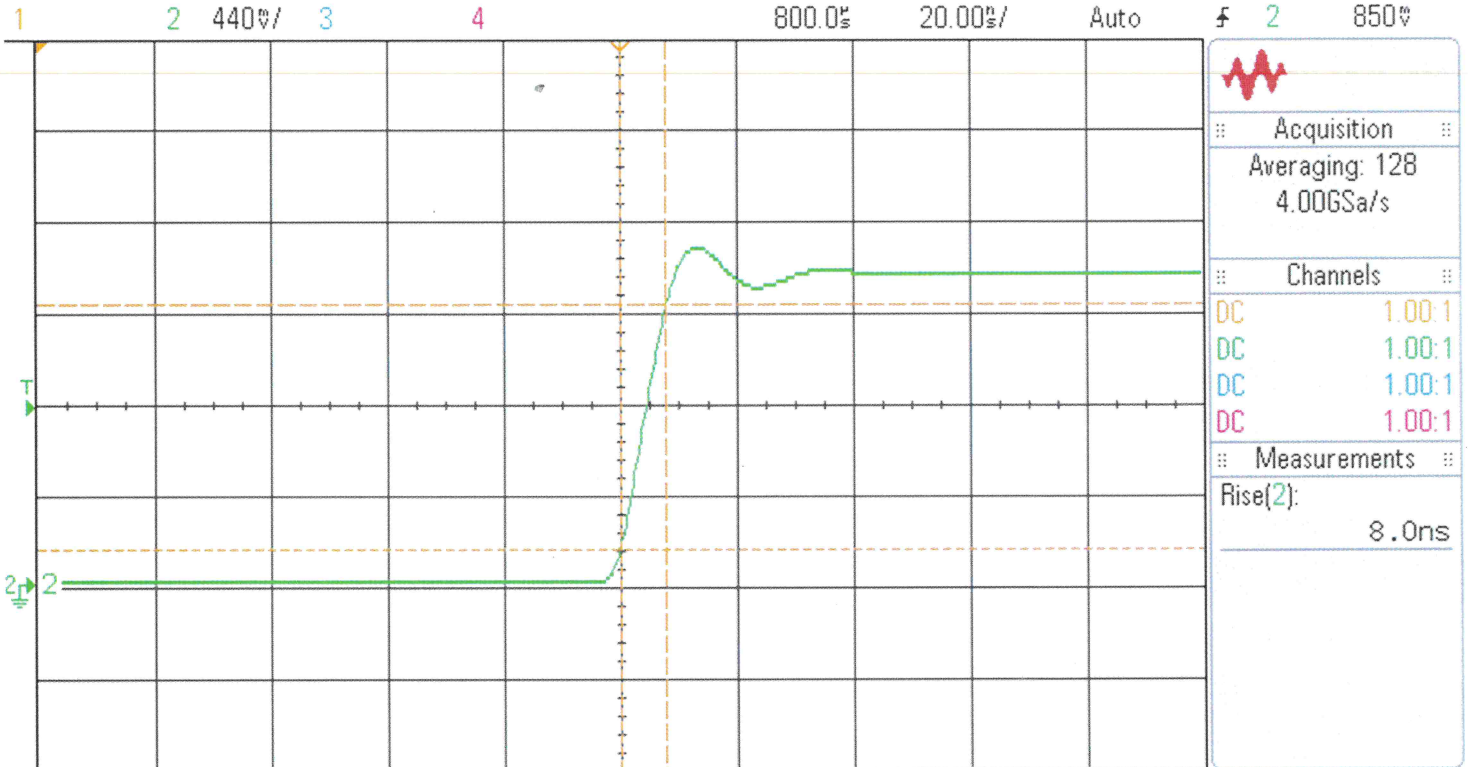


SUMMARY TEST DATA
ON
SDLVA-26R5G40G-65-CD-1

PL45448

Model: SDLVA-26R5G40G-65-CD-1
Graph#3
Rise Time 8.0ns @+25C & +2dBm

DSO-X 3024A, MY54490369: Tue May 14 10:56:58 2024



Trigger Menu

Trigger Type: Edge
Source: 2
Slope: f

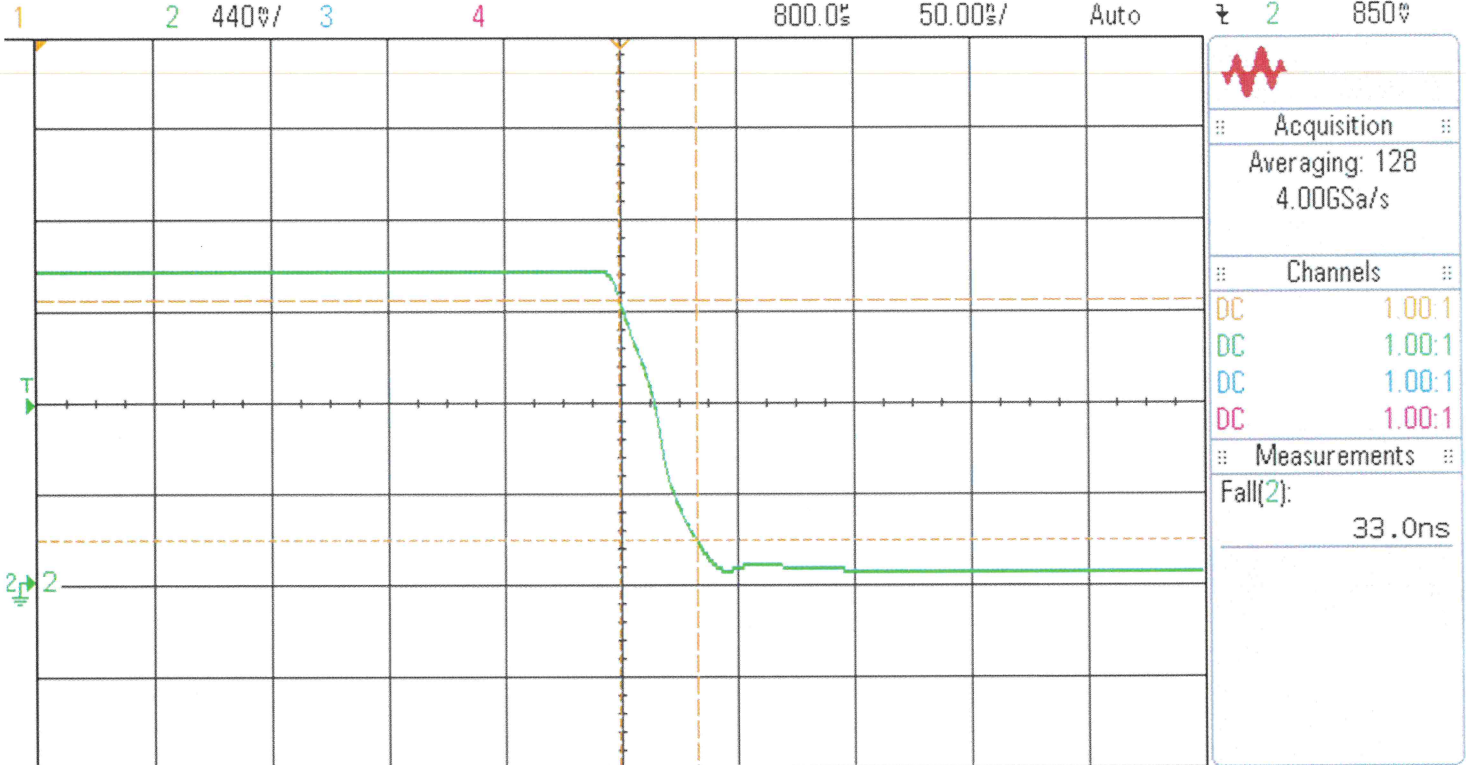


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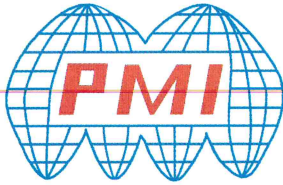
Model: SDLVA-26R5G40G-65-CD-1
Graph#4
Recovery Time 33.0ns @+25C & +2dBm

DSO-X 3024A, MY54490369: Tue May 14 10:57:49 2024



Trigger Menu

Trigger Type: Edge
Source: 2
Slope: falling



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**Model: SDLVA-26R5G40G-65-CD-1
Graph #5
VSWR 1.9:1 @+25C & -20dBm**

