



**SUMMARY TEST DATA  
ON  
SDLVA-18G40G-65-CD-292FF**

PL52144/2517

Customer: _____	Tested By: <b>DA</b>
SO No: _____	Temperature: <b>+25°C</b>
Model No: <b>SDLVA-18G40G-65-CD-292FF</b>	Date: <b>04/23/25</b>
Serial No: <b>PL52144/2517</b>	Drawing No: <b>ETD000046</b> <span style="float: right;">REV: <b>A2</b></span>

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	18.0 to 40.0GHz	Pass	
2	TSS (See Graph #2)	-65 dBm Max.	-69 dBm	
3	Power Handling	+10dBm Max.	Pass	
4	Dynamic Range:	-63dBm to +2dBm	Pass	
5	Log Linearity: @+25C (See Graph #1)	± 2.0 dB Max.	+1.36dB -1.04dB	
6	Log Slope: (See Graph #1)	25 mV/dB Nom.	24.65mV/dB	
7	Log Slope Variation: (See Graph #1)	±2.0 mV/dB Max.	0.77mV/dB	
8	Frequency Flatness: @+25C (See Graph #1)	±2.5dB Max.	1.70±dB	
9	Pulse Width Range:	30ns to CW	Pass	
10	Rise Time: (See Graph #3)	11ns Max. (8 ns Typ.)	6.8ns	
11	Recovery Time: (See Graph #4)	60ns Max. (40 ns Typ.)	27.5ns	
12	Delay Time:	60ns Max.	<60ns by design	
13	Input VSWR: (See Graph #5)	2.5:1 Max.	1.76:1	
14	Power Supply	+12V @ 500mA Max. -12V @ 200mA Max.	+12V @ 418mA -12V @ 161mA	

QA/QC Approval: *K. Klamm* Date: 4-28-25



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**Graph #1**

**Log Transfer vs Frequency @+25C**

<p>MODEL: SDLVA-18G40G-65-CD-292FF SERIAL NO: PL52144 DATE: 04-23-25 TESTED BY: DA Test Temp: +25°C</p>		 PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suite 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM																																																								
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Max. Video Output (V)	0.19 0.31 0.44 0.61 0.71 0.82 0.95 1.08 1.21 1.33 1.45 1.57 1.70 1.82																																																									
Min. Video Output (V)	0.16 0.28 0.41 0.56 0.64 0.75 0.87 1.00 1.13 1.26 1.37 1.49 1.62 1.75																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Nominal Log Slope mV/dB</td> <td style="width: 50%;">24.65</td> </tr> <tr> <td>Log Slope Variation: ± mV/dB</td> <td>0.77</td> </tr> </table>		Nominal Log Slope mV/dB	24.65	Log Slope Variation: ± mV/dB	0.77	<table style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">Video Output @ -63dBm</td> <td style="width: 50%; text-align: center;">Video Output @ ≈+2dBm</td> </tr> <tr> <td style="text-align: center;">Min(V)= 162.0</td> <td style="text-align: center;">Min(V)= 1751.0</td> </tr> <tr> <td style="text-align: center;">Max(V)= 190.0</td> <td style="text-align: center;">Max(V)= 1821.0</td> </tr> </table>		Video Output @ -63dBm	Video Output @ ≈+2dBm	Min(V)= 162.0	Min(V)= 1751.0	Max(V)= 190.0	Max(V)= 1821.0																																													
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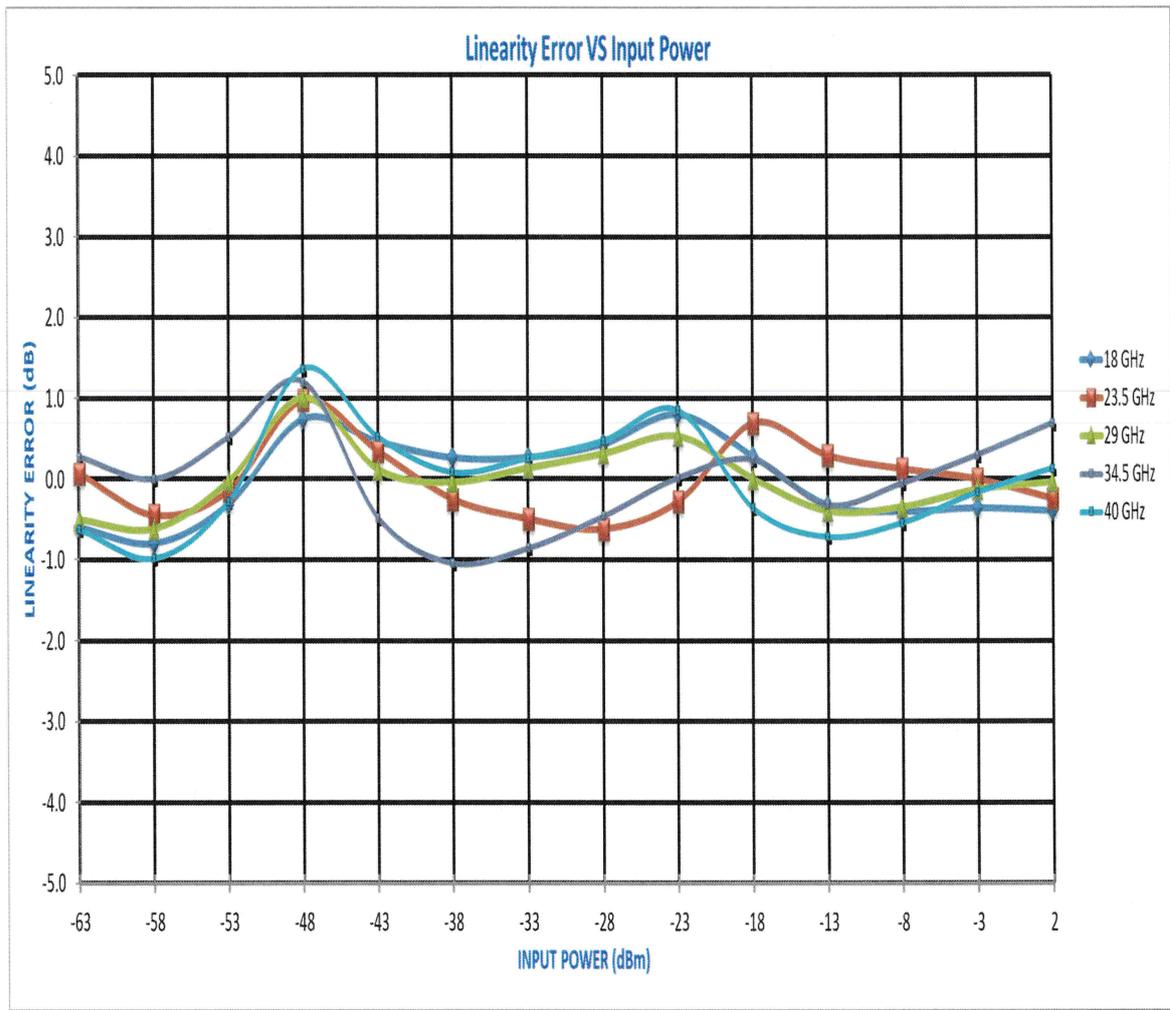


**SUMMARY TEST DATA  
ON  
SDLVA-18G40G-65-CD-292FF**

PL52144/2517

Graph #1 (cont.)

Log Transfer vs Frequency @+25C





**SUMMARY TEST DATA  
ON  
SDLVA-18G40G-65-CD-292FF**

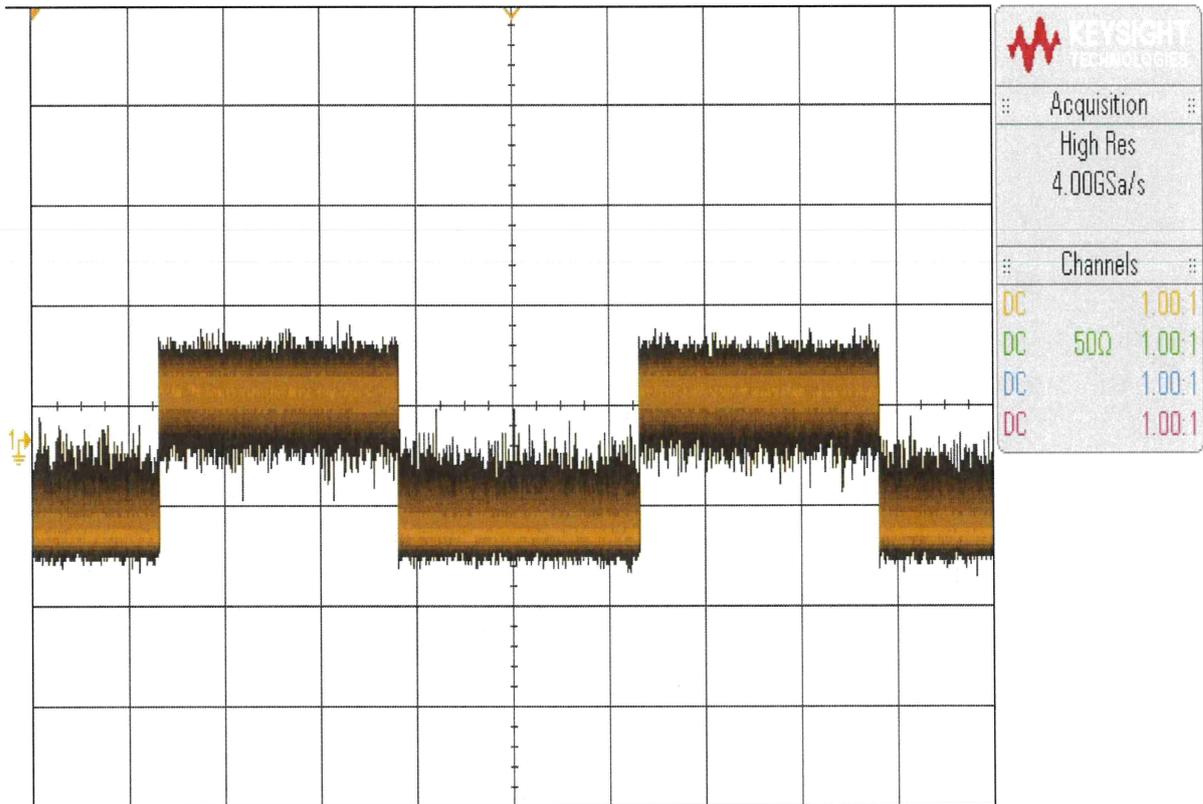
PL52144/2517

Graph #2

TSS- 69dBm @+25C

DSO-X 3024A, MY54490369: Wed Apr 23 11:24:31 2025

1 100% / 2 3 4 274.8% 20.00% / Auto E 2.63V



KEYSIGHT TECHNOLOGIES

Acquisition

High Res  
4.00GSa/s

Channels

DC	1.00:1
DC	50Ω 1.00:1
DC	1.00:1
DC	1.00:1

Save to file = pl52144\_tss\_69

Save

Recall

Default/Eraser

Press to Save



**SUMMARY TEST DATA  
ON  
SDLVA-18G40G-65-CD-292FF**

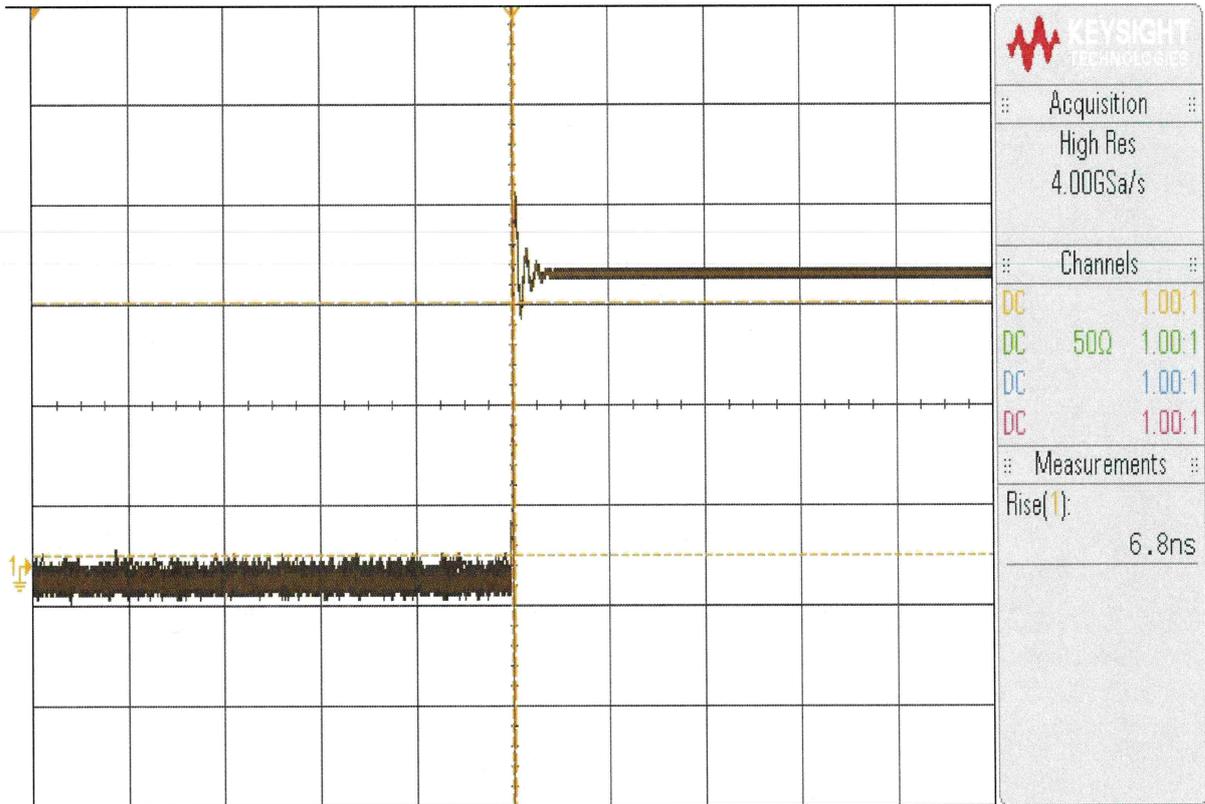
PL52144/2517

Graph #3

Rise Time 6.8nS

DSO-X 3024A, MY54490369: Wed Apr 23 11:25:43 2025

1 500% / 2 3 4 301.0% 200.0% / Auto E 2.63V



Measurement Menu

Source | Type: Rise | Add Measurement | Settings | Clear Meas | Statistics



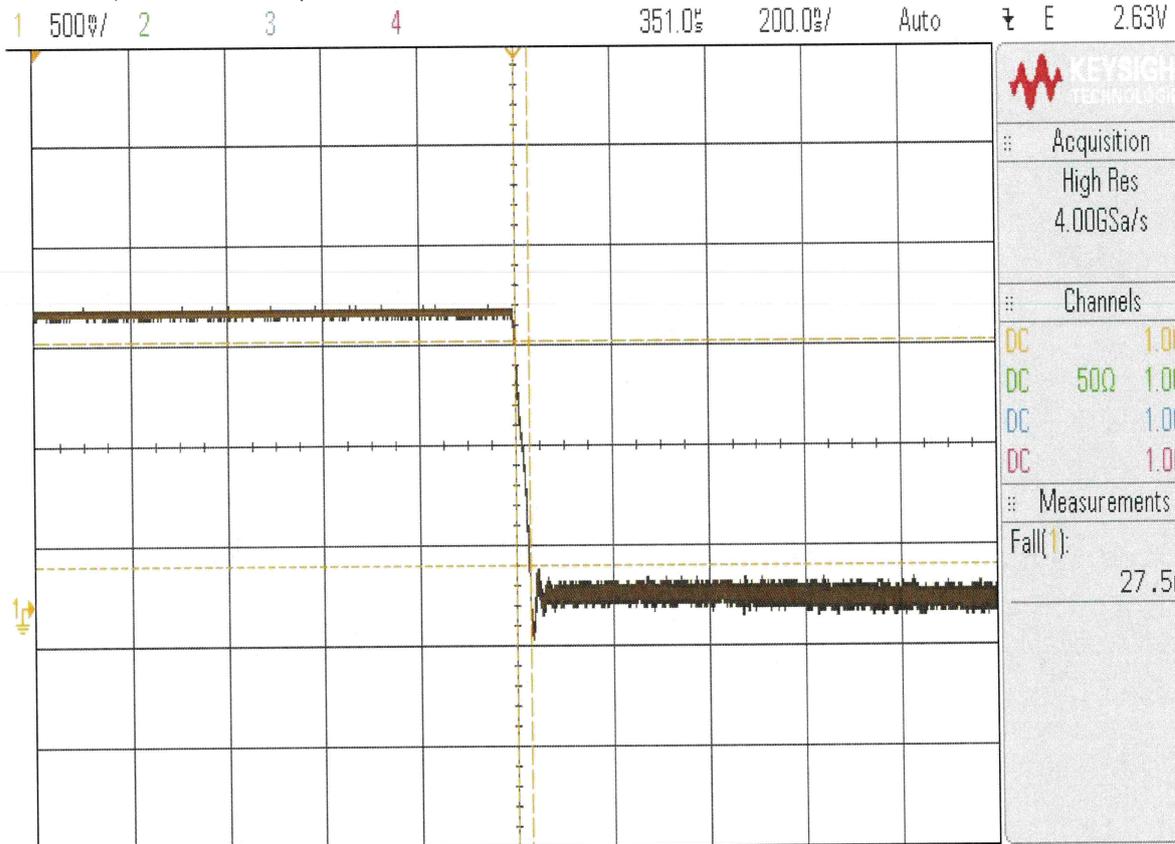
**SUMMARY TEST DATA  
ON  
SDLVA-18G40G-65-CD-292FF**

PL52144/2517

**Graph #4**

**Recovery Time 27.5nS**

DSO-X 3024A, MY54490369, Wed Apr 23 11:26:25 2025



Measurement Menu

Source | Type: Fall | Add Measurement | Settings | Clear Meas | Statistics



**SUMMARY TEST DATA  
ON  
SDLVA-18G40G-65-CD-292FF**

PL52144/2517

**Graph #5**

**VSWR 1.76:1 @+25C & -20dBm**

