



TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	18.0 to 40.0GHz	18.0 to 40.0GHz	PMI QA3
2	TSS	-65 dBm @25°C	-69dBm	
3	Input Power Handling	+10dBm Max.	+10dBm	
4	Video Log Range:	-63dBm to +2dBm	-63dBm to +2dBm	
5	Video Log Linearity:	± 2.0 dB @25°C ±3.0 dB over temp.	±1.50dB	
6	Video Log Slope:	25 mV/dB Nom.	25.8mV/dB	
7	Video Log Intercepts: Video Output:	At 2 dBm 1940 mV Max. 1476 mV Min. At -63 dBm 280 mV Max. 65 mV Min.	1938mV 1861mV 231mV 192mV	
8	Video Frequency Flatness:	±2.5dB Max. @ 25°	1.70dB	
9	Pulse Width Range:	25 ns to CW	Pass	
10	Video Rise Time:	11ns (8 ns Typ.)	8.8ns	
11	Recovery Time:	60ns (40 ns Typ.)	Pass	
12	Delay Time:	15 ns (5 ns Typ.) 7 ns over temp. Typ.	Pass	
13	Video Output Impedance:	50 Ω	50 Ω	
14	Input VSWR (50Ω):	2.5:1	2.28:1	
15	DC Power Supply:	+12V @ 400mA -12V @ 200mA	+12V@ 381mA -12V@ 157mA	

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

Model: SDLVA-18G40G-65-CD-292FF-OPHS Serial Number: PL49578

Graph #1

Log Transfer vs Frequency @+25C

MODEL: SDLVA-18G40G-65-CD-292FF-OTPHS
 SERIAL NO: PL50082
 DATE: 01/21/25
 TESTED BY: DA
 Test Temp: +25C

PLANAR MONOLITHICS INDUSTRIES
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GRAPH #1

Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)		
18 GHz	INTERCEPT (mV)	1877	213	342	476	617	759	892	1029	1167	1300	1407	1518	1650	1788	1925	Measured Value (mV)	Error (dB)
	SLOPE (mV/dB)	26.2	-12	-14	-12	-2	9	11	17	24	26	2	-18	-17	-10	-4	Error (mV)	MAX MIN
			-0.47	-0.55	-0.44	-0.06	0.36	0.43	0.66	0.92	0.99	0.08	-0.69	-0.66	-0.39	-0.16	LINEARITY ERROR (dB)	0.99 -0.69
23.5 GHz	INTERCEPT (mV)	1893	199	325	461	612	757	884	1019	1156	1292	1416	1533	1668	1808	1938	Measured Value (mV)	Error (dB)
	SLOPE (mV/dB)	26.8	-7	-15	-13	4	15	8	10	13	15	5	-12	-10	-4	-8	Error (mV)	MAX MIN
			-0.28	-0.57	-0.49	0.15	0.57	0.32	0.36	0.48	0.56	0.19	-0.43	-0.39	-0.16	-0.30	LINEARITY ERROR (dB)	0.57 -0.57
29 GHz	INTERCEPT (mV)	1837	192	318	452	591	699	816	951	1092	1233	1380	1491	1622	1761	1903	Measured Value (mV)	Error (dB)
	SLOPE (mV/dB)	26.3	10	4	7	15	-9	-23	-19	-9	0	16	-4	-5	3	14	Error (mV)	MAX MIN
			0.37	0.17	0.27	0.56	-0.32	-0.87	-0.73	-0.36	0.01	0.61	-0.17	-0.18	0.12	0.52	LINEARITY ERROR (dB)	0.61 -0.87
34.5 GHz	INTERCEPT (mV)	1801	227	362	500	636	706	826	965	1110	1256	1384	1460	1584	1720	1861	Measured Value (mV)	Error (dB)
	SLOPE (mV/dB)	24.8	-8	3	16	28	-26	-30	-16	5	27	31	-17	-18	-6	11	Error (mV)	MAX MIN
			-0.33	0.11	0.66	1.13	-1.05	-1.22	-0.62	0.21	1.09	1.24	-0.70	-0.71	-0.24	0.43	LINEARITY ERROR (dB)	1.24 -1.22
40 GHz	INTERCEPT (mV)	1835	231	366	507	667	775	890	1023	1159	1298	1394	1477	1610	1746	1887	Measured Value (mV)	Error (dB)
	SLOPE (mV/dB)	24.9	-32	-21	-5	30	13	4	12	23	37	9	-33	-25	-14	3	Error (mV)	MAX MIN
			-1.27	-0.86	-0.21	1.20	0.53	0.14	0.47	0.92	1.50	0.34	-1.33	-1.00	-0.55	0.10	LINEARITY ERROR (dB)	1.50 -1.33
Flatness +/- dB			0.80	0.90	1.10	1.50	1.50	1.50	1.50	1.30	0.70	1.40	1.60	1.70	1.50			
Max Video Output Volts			0.23	0.37	0.51	0.67	0.78	0.89	1.03	1.17	1.30	1.42	1.53	1.67	1.81	1.94		
Min Video Output Volts			0.19	0.32	0.45	0.59	0.70	0.82	0.95	1.09	1.23	1.38	1.46	1.58	1.72	1.86		
Nominal Log Slope mV/dB			25.8															
Log Slope Variation: ± mV/dB			0.96															
Video Output @ -63dBm																		
Min(V)=			192.0														65	
Max(V)=			231.0														280	
Video Output @ +2dBm																		
Min(V)=			1861.0														1476	
Max(V)=			1938.0														1940	

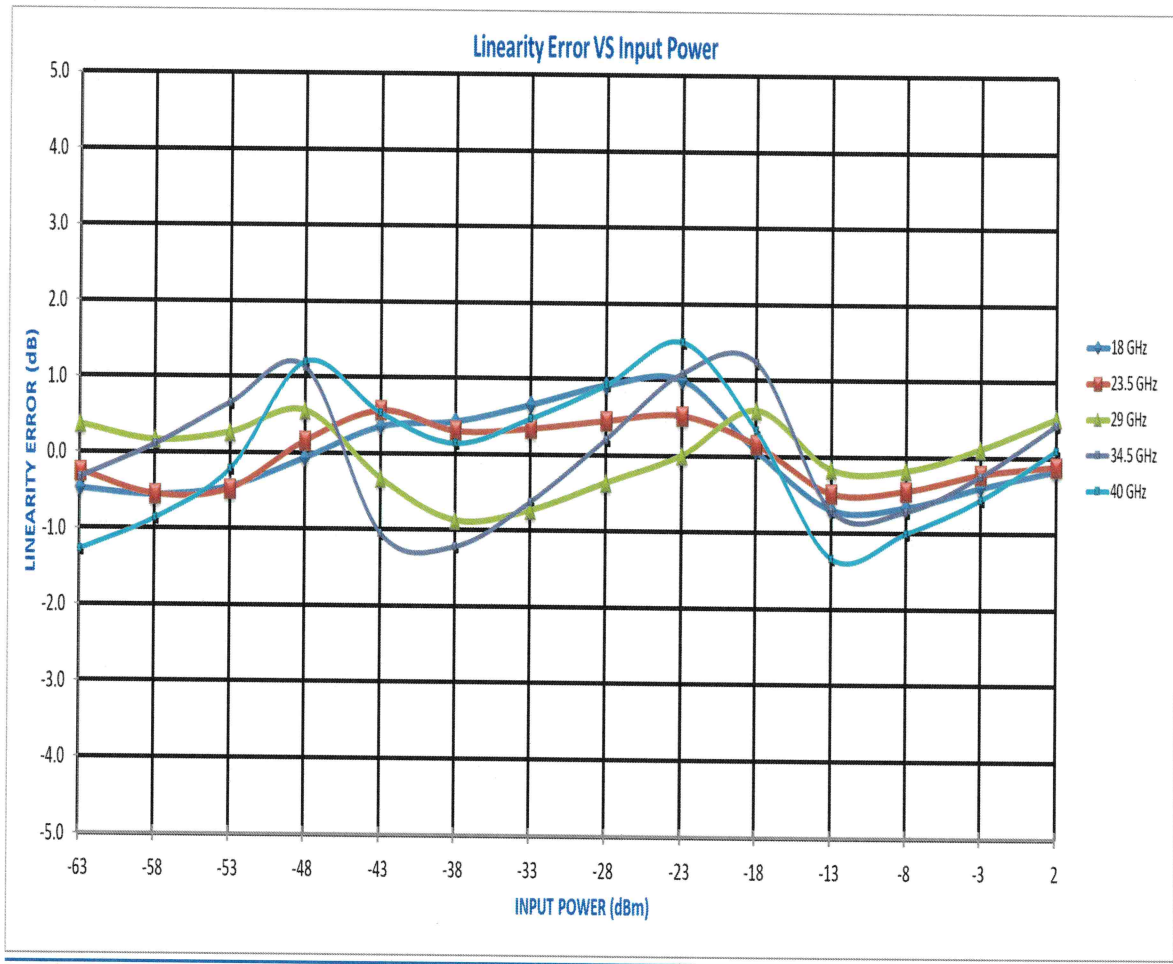


**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF-
OPHS**

Model: SDLVA-18G40G-65-CD-292FF-OPHS Serial Number:PL49578

Graph #1 (cont.)

Log Transfer vs Frequency @+25C





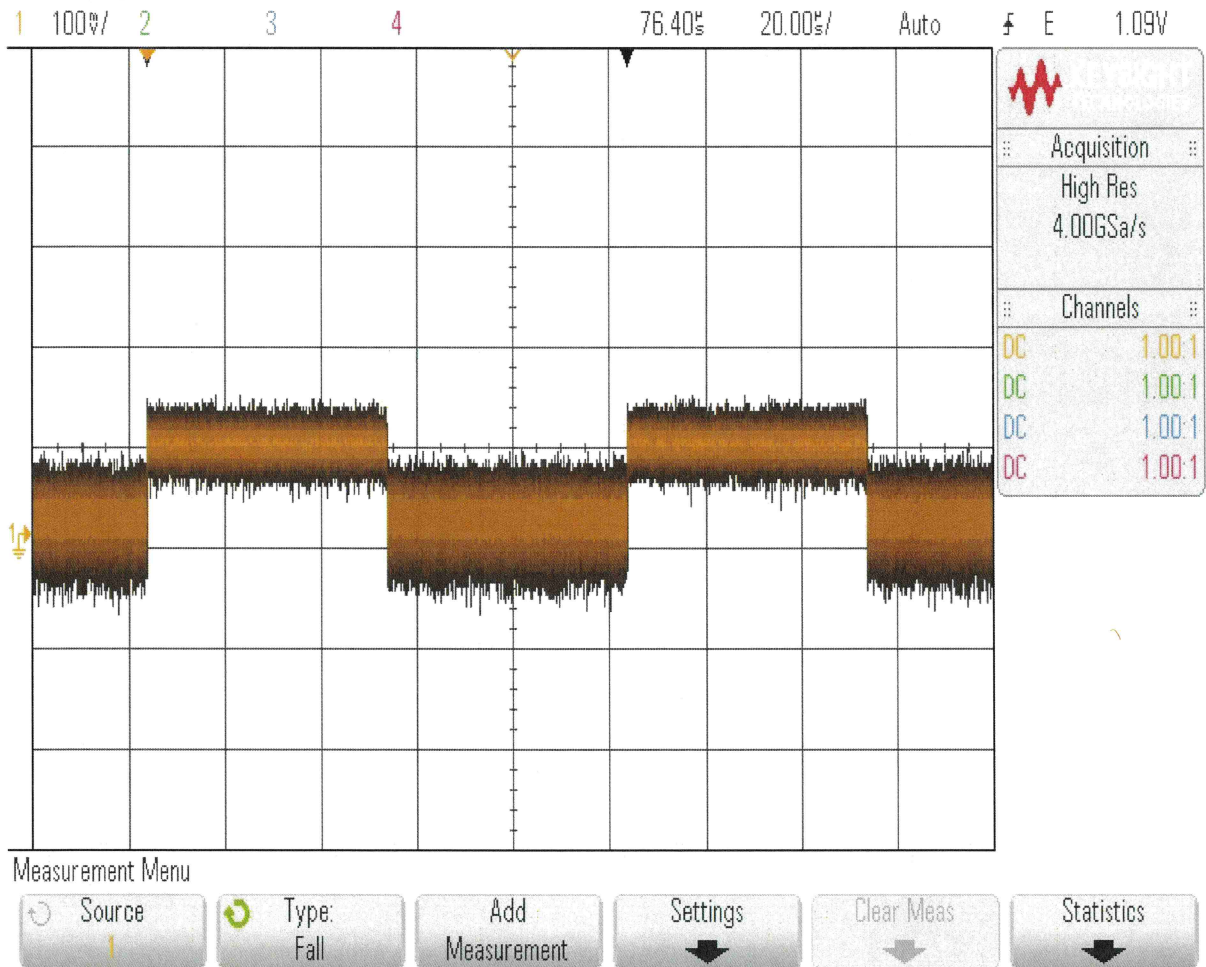
**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF-
OPHS**

Model: SDLVA-18G40G-65-CD-292FF-OPHS **Serial Number:PL49578**

Graph #2

TSS-69dBm @+25C

MSO-X 3054A, MY53400180: Mon Jan 20 12:31:30 2025





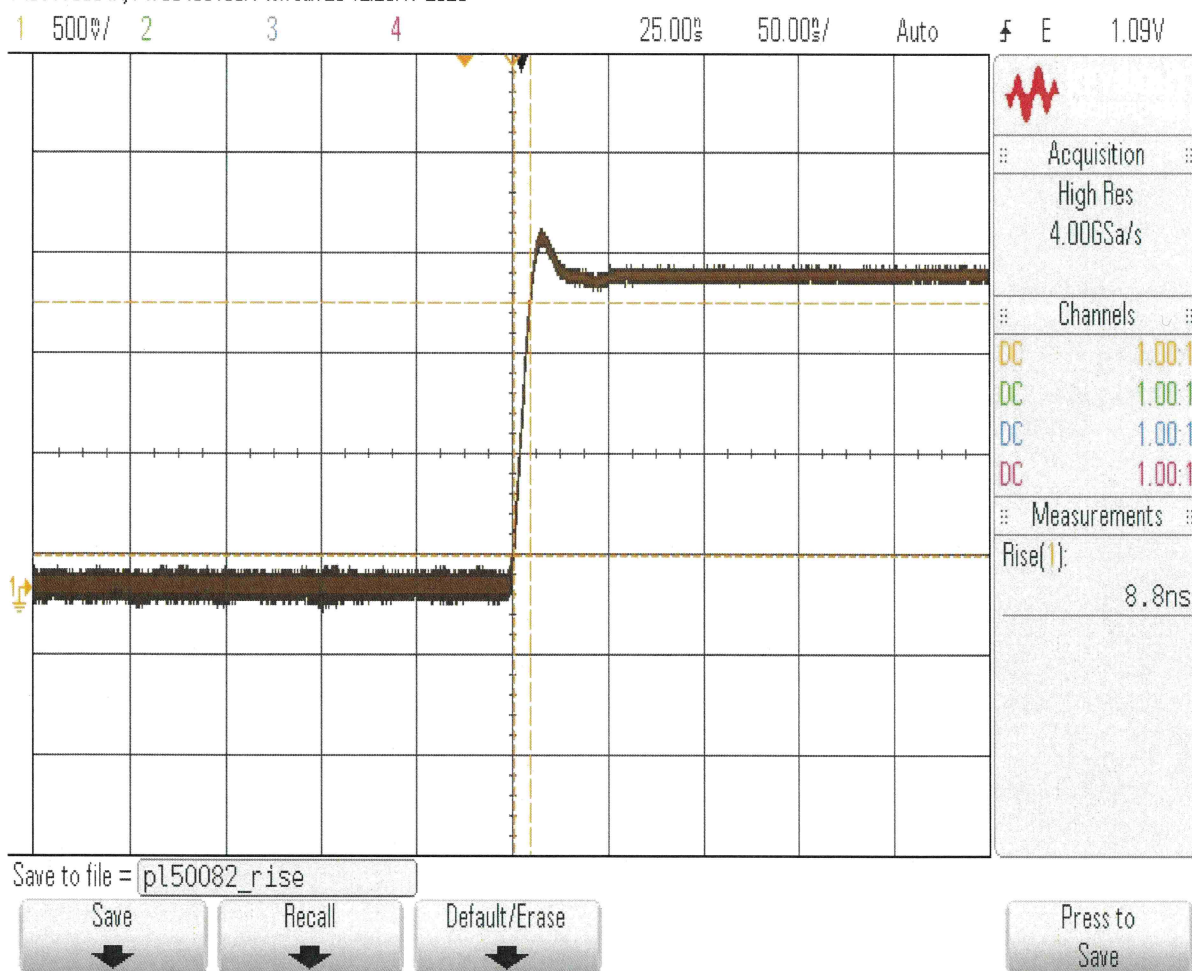
**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF-
OPHS**

Model: SDLVA-18G40G-65-CD-292FF-OPHS Serial Number:PL49578

Graph#3

Rise Time 8.8ns @+25C & +2dBm

MSO-X 3054A, MY53400180: Mon Jan 20 12:29:17 2025





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

Model: SDLVA-18G40G-65-CD-292FF-OPTHS **Serial Number: PL49578**

Graph#4

Fall Time 24.8ns @+25C & +2dBm

MSO-X 3054A, MY53400180: Mon Jan 20 12:30:14 2025





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

Model: SDLVA-18G40G-65-CD-292FF-OPHS Serial Number:PL49578

Graph #5

VSWR 2.28:1 @+25C & -20dBm

