



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

PL45190/2413

Graph #1

Log Transfer vs Frequency @+25C

MODEL: SDLVA-18G40G-65-CD-292FF
SERIAL NO: PL45190
DATE: 04-16-24
TESTED BY: Anton L.
Test Temp: +25°C



PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway Suit 1
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Frequency		-63	-58	-53	-48	-43	-38	-33	-28	-23	-18	-13	-8	-3	2	RF Input Power (dBm)		
18 GHz	INTERCEPT (mV)	1812																
	SLOPE (mV/dB)	27																
		131	230	347	469	628	824	971	1106	1234	1355	1449	1578	1708	1833	Measured Value (mV)	Error (dB)	
		17	-19	-37	-49	-25	36	48	48	42	28	-13	-19	-23	-33	Error (mV)	MAX	MIN
		0.62	-0.70	-1.36	-1.84	-0.94	1.33	1.79	1.80	1.54	1.03	-0.48	-0.69	-0.87	-1.23	LINEARITY ERROR (dB)	1.80	-1.84
23.5 GHz	INTERCEPT (mV)	1808																
	SLOPE (mV/dB)	26.5																
		148	256	382	512	663	825	955	1088	1218	1347	1456	1585	1717	1845	Measured Value (mV)	Error (dB)	
		10	-15	-21	-24	-5	24	21	22	19	16	-8	-11	-12	-16	Error (mV)	MAX	MIN
		0.36	-0.56	-0.81	-0.90	-0.21	0.91	0.81	0.83	0.73	0.60	-0.29	-0.42	-0.44	-0.61	LINEARITY ERROR (dB)	0.91	-0.90
29 GHz	INTERCEPT (mV)	1731																
	SLOPE (mV/dB)	25.5																
		147	259	385	510	634	757	871	998	1127	1258	1399	1533	1668	1804	Measured Value (mV)	Error (dB)	
		23	5	5	2	-1	-6	-19	-19	-18	-14	0	6	14	23	Error (mV)	MAX	MIN
		0.84	0.23	0.18	0.09	-0.05	-0.22	-0.74	-0.76	-0.69	-0.55	-0.01	0.25	0.55	0.88	LINEARITY ERROR (dB)	0.88	-0.76
34.5 GHz	INTERCEPT (mV)	1734																
	SLOPE (mV/dB)	24.8																
		174	291	418	542	661	781	911	1052	1192	1318	1390	1513	1651	1789	Measured Value (mV)	Error (dB)	
		2	-5	-2	-1	-6	-10	-4	13	29	31	-21	-22	-8	6	Error (mV)	MAX	MIN
		0.10	-0.18	-0.06	-0.06	-0.26	-0.42	-0.18	0.51	1.16	1.24	-0.86	-0.90	-0.33	0.24	LINEARITY ERROR (dB)	1.24	-0.90
40 GHz	INTERCEPT (mV)	1720																
	SLOPE (mV/dB)	25																
		139	251	377	516	650	783	912	1043	1172	1312	1369	1488	1627	1768	Measured Value (mV)	Error (dB)	
		-6	-19	-18	-4	5	13	17	23	27	42	-26	-32	-18	-4	Error (mV)	MAX	MIN
		-0.25	-0.76	-0.72	-0.16	0.20	0.52	0.68	0.92	1.08	1.68	-1.04	-1.28	-0.72	-0.15	LINEARITY ERROR (dB)	1.68	-1.28
Flatness +/- dB		0.80	1.20	1.40	1.40	0.70	1.30	1.90	2.10	2.10	1.90	1.70	1.90	1.70	1.50			
Max. Video Output (V)		0.17	0.29	0.42	0.54	0.66	0.83	0.97	1.11	1.23	1.36	1.46	1.59	1.72	1.85			
Min. Video Output (V)		0.13	0.23	0.35	0.47	0.63	0.76	0.87	1.00	1.13	1.26	1.37	1.49	1.63	1.77			
Nominal Log Slope mV/dB	25.74															Video Output @ -63dBm		
Log Slope Variation: ± mV/dB	1.08															Min(V)= 131.0		
																Max(V)= 174.0		
																Video Output @ +=2dBm		
																Min(V)= 1766.0		
																Max(V)= 1845.0		

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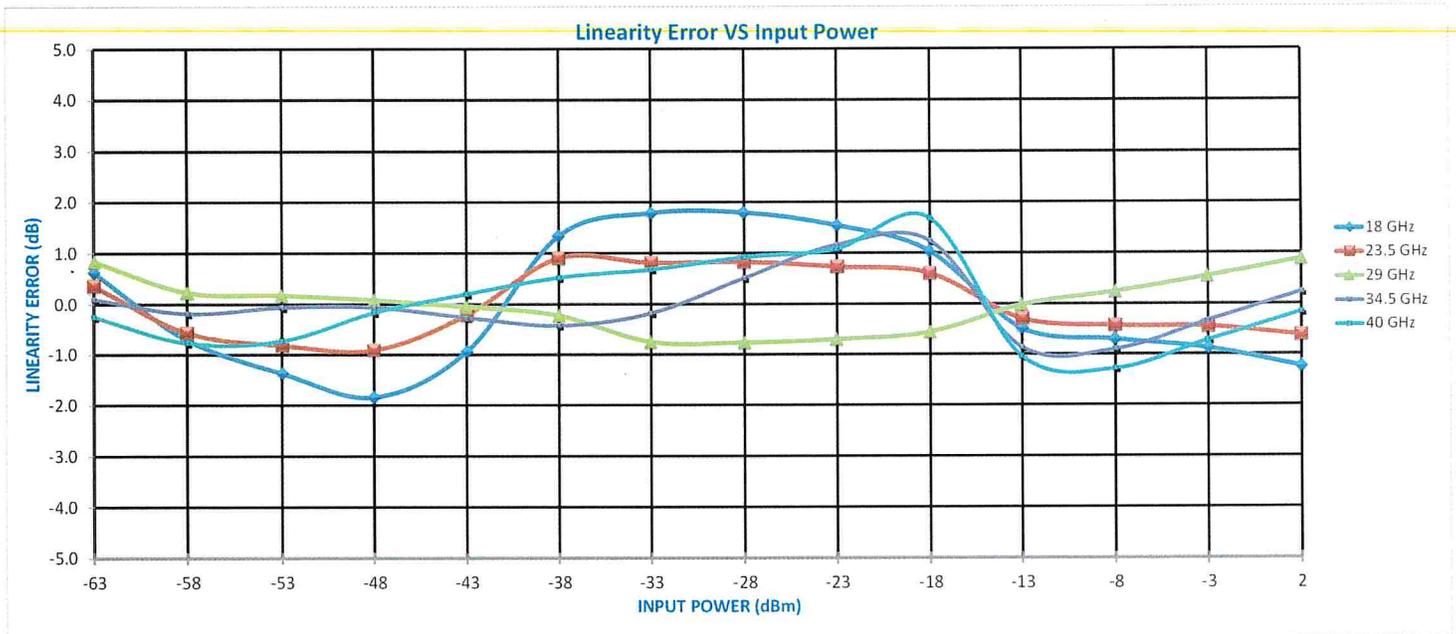


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Graph #1 (cont.)

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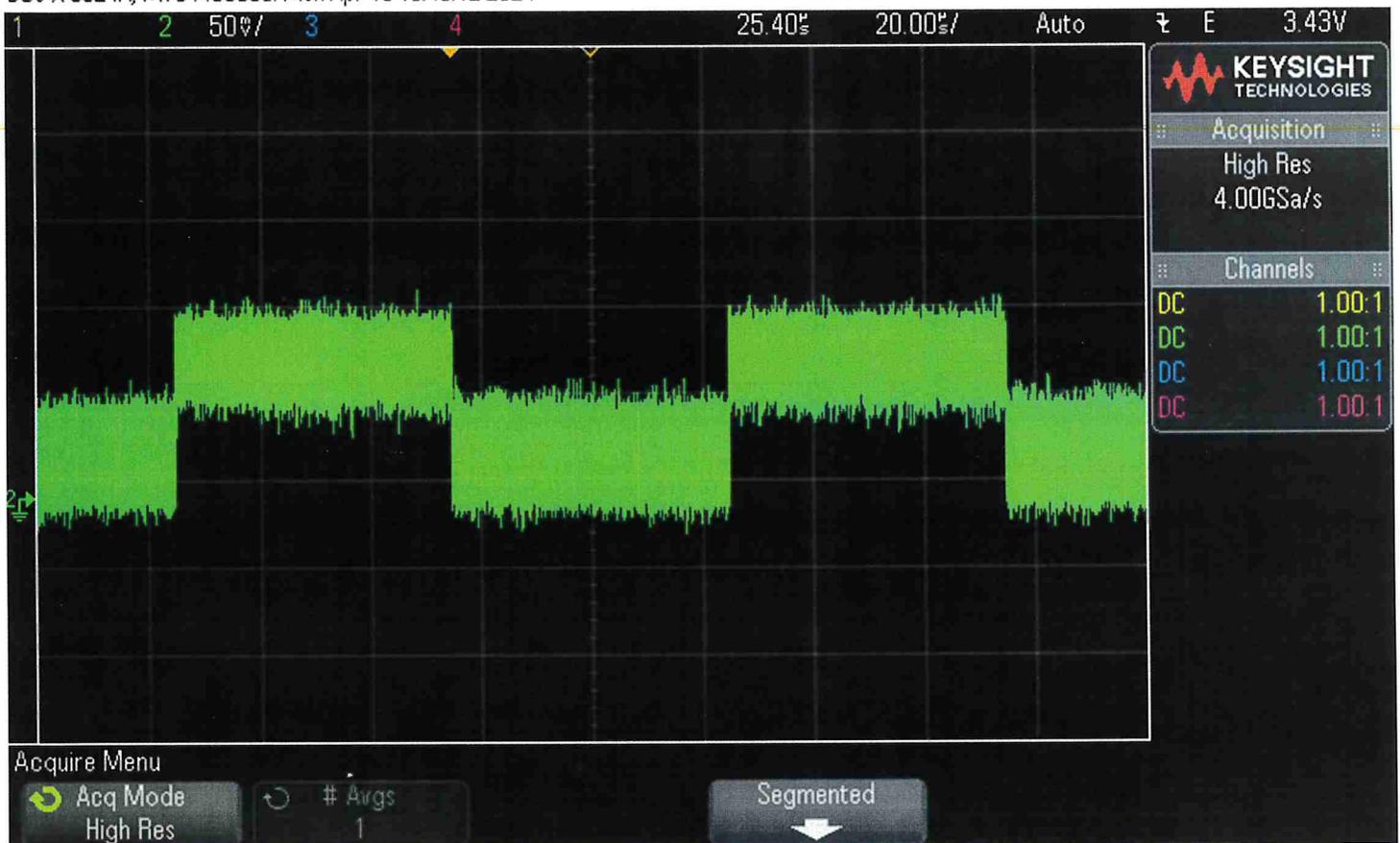
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Graph #2

TSS-66.5 dBm @+25C

DSO-X 3024A, MY54490369: Mon Apr 15 15:46:12 2024



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Graph #3

Rise Time 7.0ns

DSO-X 3024A, MY54490369, Mon Apr 15 15:31:13 2024



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Graph #4

Recovery Time 16.0ns

DSO-X 3024A, MY54490369: Mon Apr 15 15:32:26 2024



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Graph #5

VSWR 2.3:1 @+25C & -20 dBm

