SUMMARY TEST DATA
ON
SDLVA-212-65-16MV-12DBM

Customer:		**Tested By:**	Jim Hopson
SO No:		**Temperature:**	+25°C
Model No:	SDLVA-212-65-16MV-12DBM	**Date:**	09/30/24
Serial No:	PL46793/2440	**Drawing No:**	27626223 **Rev:** A2

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range	2 GHz to 12 GHz	**2 GHz to 12 GHz**	PMI QA3
2	TSS	-64 dBm max	**-64 dBm**	
3	Input Power Handling	+20 dBm	**Pass**	
4	Simultaneous Signal Suppression	Simultaneous signal, 5 dB lower at RF input, shall be 5 dB lower at output with -45 dBm Min input signal	**-5.5 Typ.**	
5	Output Harmonics	-9 dBc	**-10 dBc Typ.**	
6	Video Log Range	-55 dBm to +10 dBm	**-55 dBm to +10 dBm**	
7	Video Log Linearity	+2.2 dB	**1.12/-.86 dB**	
8	Video Log Slope	16.0 ±2.0 mV/dB nom	**15.67/17.53 mV/dB**	
9	Video Freq Flatness	±4 dB max	**±2.21 dB**	
10	Pulse Width Range	25 nsec to CW	**25 nsec to CW**	
11	Video Rise Time	10 nsec max	**5.8 nsec**	

4921 Robert J. Mathews Parkway, Suite 1, El Dorado Hills, CA, 95762
Phone: (916) 542-1401 Fax: (916) 265-2597
Email: sales@pmi-rf.com

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ON
SDLVA-212-65-16MV-12DBM

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
12	Video Fall Time	15 nsec max	**13.3 nsec**	PMI QA3
13	Recovery Time	30 nsec max	**<30 nsec**	
14	Delay	<2 nsec	**<2 nsec**	
15	Video Output Impedance	35Ω Nominal	**Pass**	
16	RF In/Out Impedance	50Ω	**Pass**	
17	Input VSWR (50Ω)	2.0:1 max	**1.90:1**	
18	DC Supply	+15 V @ 800 mA -15 V @ 200 mA	**500 mA** **30 mA**	

QA/QC Approval: K. Klamm **Date:** 10-1-24

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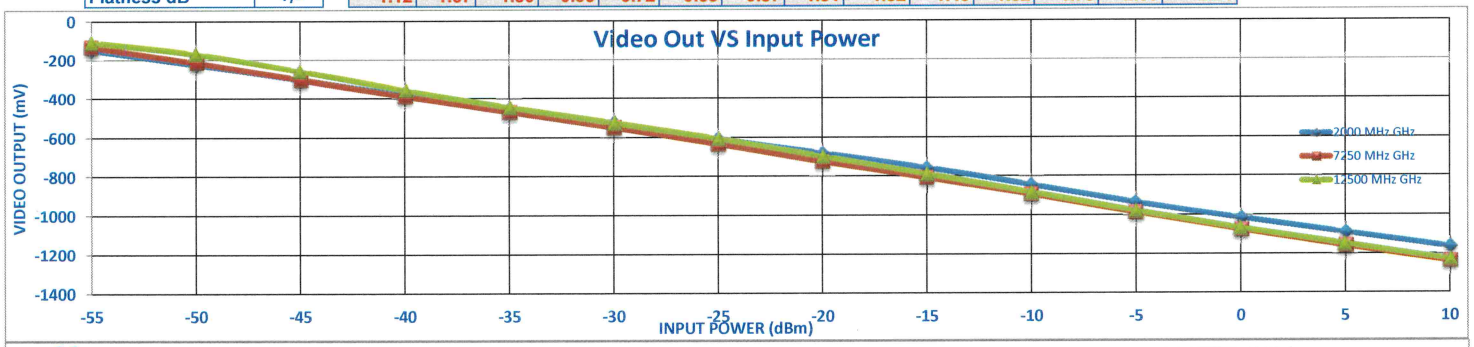
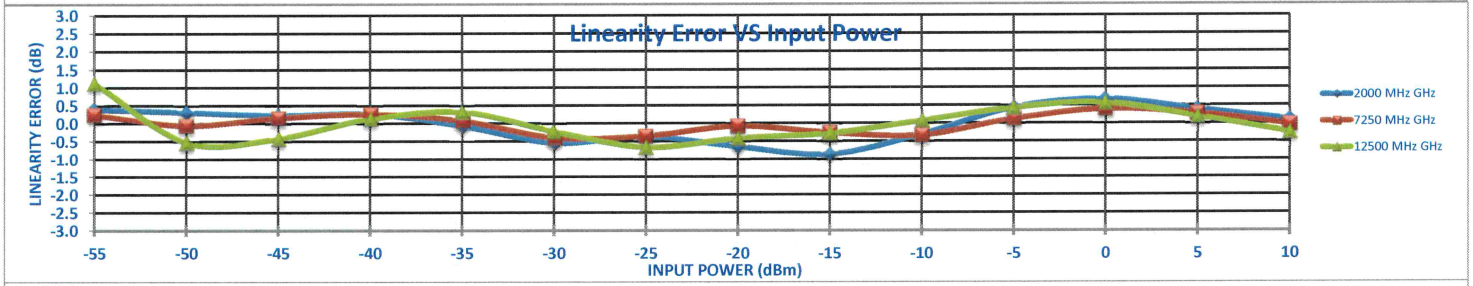
LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-212-65-16MV-12DBM
TESTED BY: Jim Hopson
DATE: 9-30-2024
SERIAL NO: PL46793

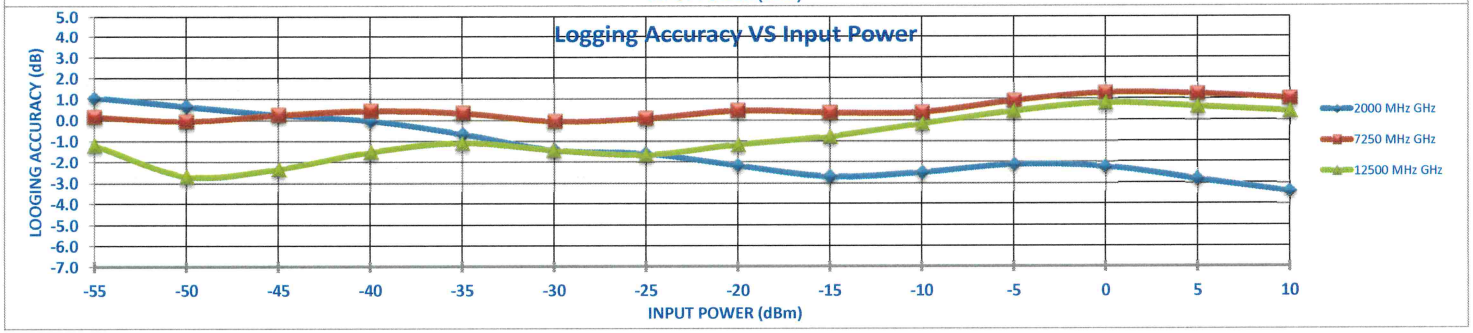
Test Temp: 25C

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
2000 MHz	INTERCEPT (mV)	-1005	-149	-226	-303	-382	-455	-526	-607	-681	-756	-843	-933	-1015	-1089	-1163	Measured Value (mV)
	SLOPE (mV/dB)	-15.67	-6	-5	-4	-4	1	8	6	10	14	5	-7	-10	-6	-2	Error (mV)
			0.40	0.31	0.22	0.27	-0.07	-0.54	-0.37	-0.65	-0.86	-0.31	0.43	0.67	0.39	0.11	LINEARITY ERROR (dB)
			1.04	0.64	0.24	-0.04	-0.68	-1.44	-1.61	-2.19	-2.71	-2.52	-2.14	-2.24	-2.83	-3.41	ACCURACY ERROR (dB)
7250 MHz	INTERCEPT (mV)	-1067	-134	-214	-303	-390	-472	-549	-635	-725	-807	-891	-984	-1074	-1157	-1237	Measured Value (mV)
	SLOPE (mV/dB)	-17.04	-4	1	-3	-4	-1	7	6	1	5	6	-2	-7	-5	1	Error (mV)
			0.25	-0.06	0.15	0.26	0.08	-0.41	-0.36	-0.08	-0.27	-0.34	0.12	0.40	0.27	-0.03	LINEARITY ERROR (dB)
			0.16	-0.07	0.23	0.44	0.33	-0.07	0.06	0.44	0.34	0.35	0.90	1.28	1.23	1.01	ACCURACY ERROR (dB)
12500 MHz	INTERCEPT (mV)	-1056	-111	-170	-260	-357	-448	-526	-606	-698	-788	-882	-976	-1066	-1147	-1227	Measured Value (mV)
	SLOPE (mV/dB)	-17.53	-20	9	8	-2	-6	4	12	7	5	-1	-8	-10	-3	4	Error (mV)
			1.12	-0.54	-0.43	0.13	0.32	-0.23	-0.67	-0.42	-0.29	0.07	0.43	0.57	0.19	-0.25	LINEARITY ERROR (dB)
			-1.20	-2.70	-2.36	-1.54	-1.10	-1.44	-1.67	-1.17	-0.80	-0.19	0.43	0.80	0.64	0.41	ACCURACY ERROR (dB)
	Flatness dB	+/-	1.12	1.67	1.30	0.99	0.72	0.69	0.87	1.31	1.52	1.43	1.52	1.76	2.03	2.21	





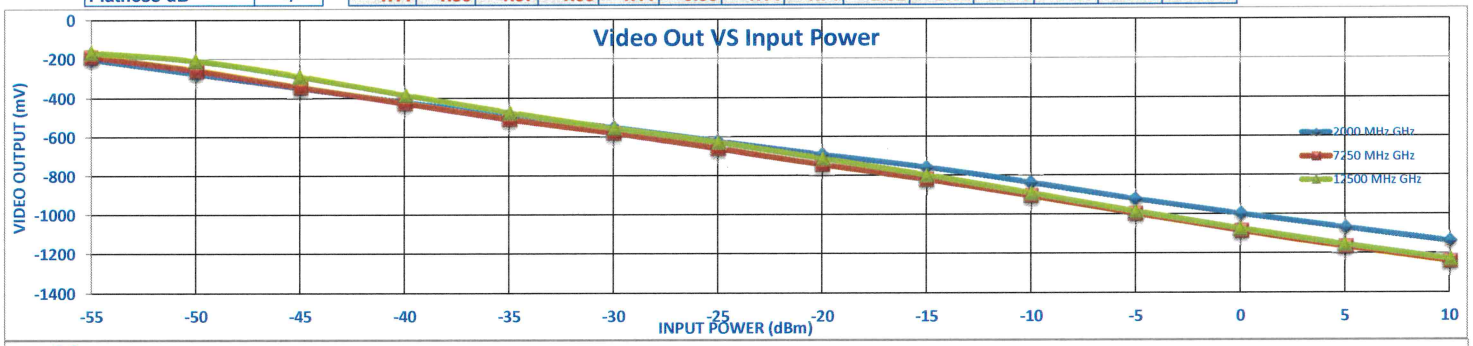


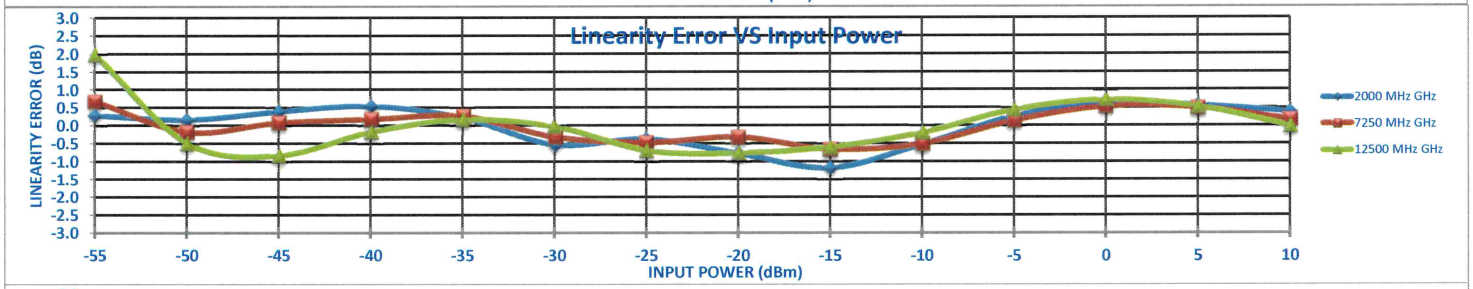
LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-212-65-16MV-12DBM
TESTED BY: Jim Hopson
DATE: 9-30-2024
SERIAL NO: PL46793

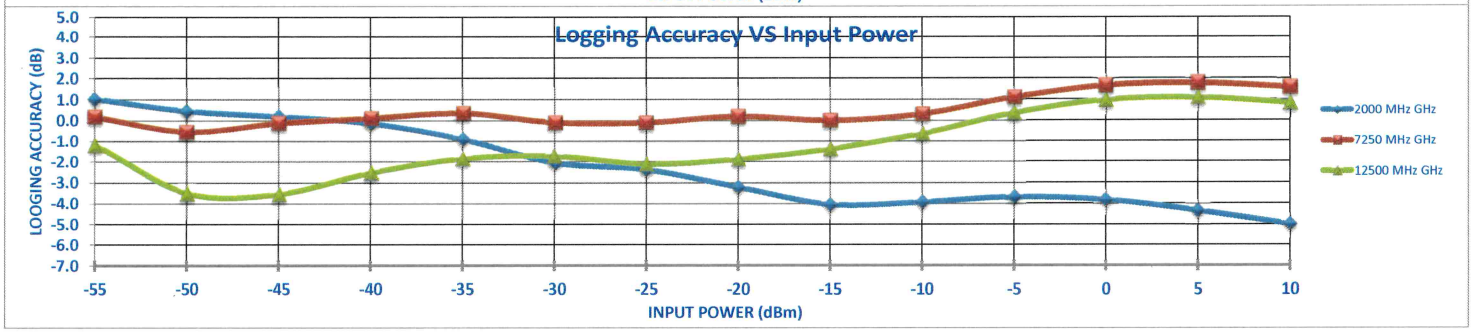
Test Temp: +85C

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
2000 MHz	INTERCEPT (mV)	-988.1	-203	-273	-348	-422	-489	-550	-624	-690	-756	-837	-920	-997	-1068	-1137	Measured Value (mV)
	SLOPE (mV/dB)	-14.35	-4	-2	-5	-8	-3	8	5	11	17	8	-4	-9	-8	-5	Error (mV)
			0.28	0.15	0.38	0.54	0.21	-0.54	-0.38	-0.78	-1.18	-0.53	0.25	0.62	0.57	0.38	LINEARITY ERROR (dB)
			1.02	0.44	0.17	-0.15	-0.92	-2.07	-2.39	-3.22	-4.05	-3.94	-3.69	-3.83	-4.34	-4.99	ACCURACY ERROR (dB)
7250 MHz	INTERCEPT (mV)	-1075	-190	-257	-343	-426	-509	-581	-660	-744	-820	-904	-996	-1084	-1165	-1241	Measured Value (mV)
	SLOPE (mV/dB)	-16.3	-11	3	-1	-3	-4	5	8	5	11	8	-2	-9	-8	-3	Error (mV)
			0.67	-0.19	0.08	0.17	0.26	-0.32	-0.48	-0.33	-0.66	-0.51	0.13	0.53	0.50	0.16	LINEARITY ERROR (dB)
			0.17	-0.56	-0.14	0.10	0.34	-0.11	-0.12	0.19	-0.01	0.30	1.11	1.67	1.78	1.58	ACCURACY ERROR (dB)
12500 MHz	INTERCEPT (mV)	-1061	-168	-210	-289	-384	-474	-555	-628	-711	-798	-889	-984	-1073	-1154	-1229	Measured Value (mV)
	SLOPE (mV/dB)	-16.84	-34	8	14	3	-3	1	12	13	10	3	-7	-12	-9	0	Error (mV)
			1.99	-0.50	-0.84	-0.18	0.16	-0.03	-0.70	-0.77	-0.60	-0.20	0.44	0.72	0.53	-0.02	LINEARITY ERROR (dB)
			-1.20	-3.52	-3.57	-2.55	-1.87	-1.75	-2.14	-1.90	-1.40	-0.65	0.35	0.97	1.09	0.83	ACCURACY ERROR (dB)
	Flatness dB	+/-	1.11	1.98	1.87	1.33	1.11	0.98	1.14	1.71	2.02	2.12	2.40	2.75	3.06	3.28	





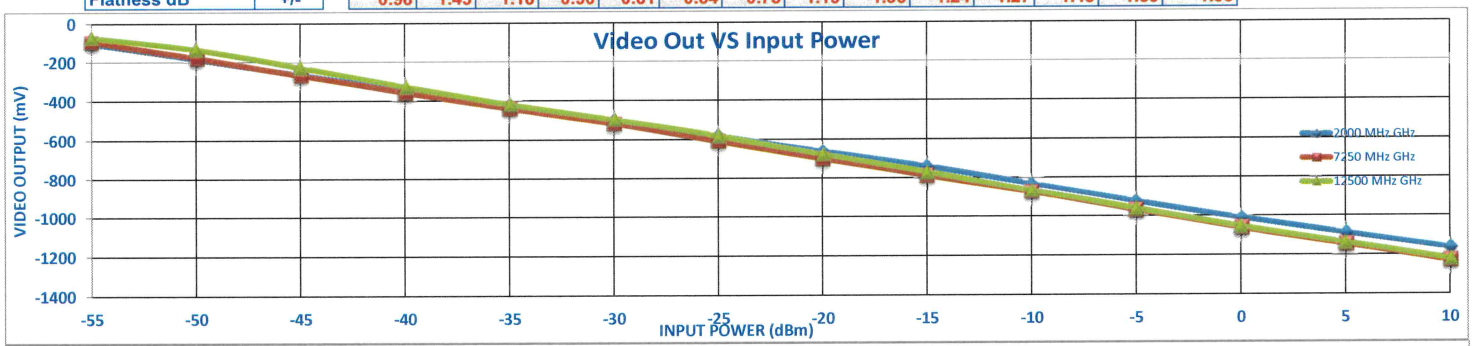


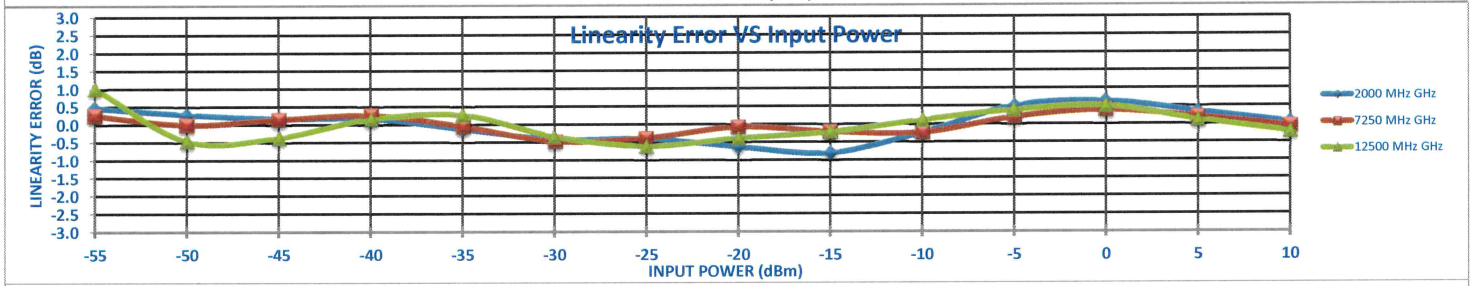
LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-212-65-16MV-12DBM
TESTED BY: Jim Hopson
DATE: 9-30-2024
SERIAL NO: PL46793

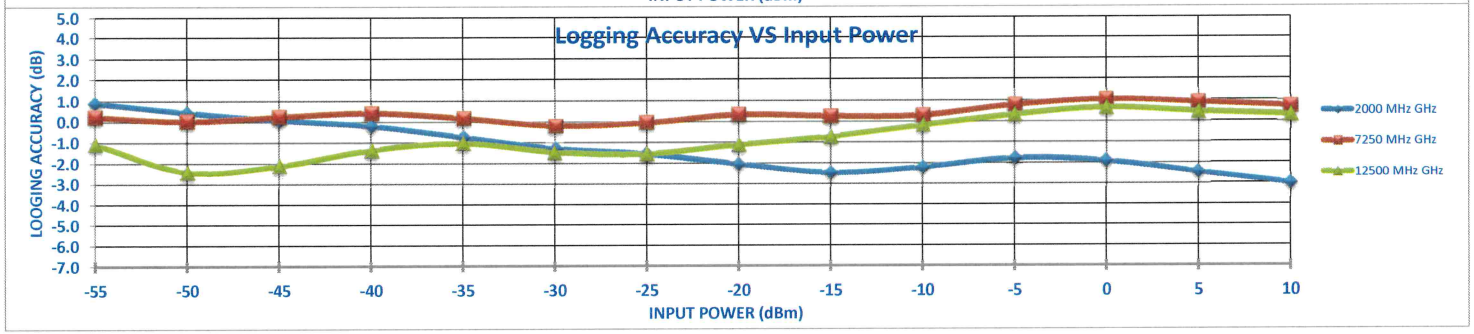
Test Temp: 0C

PLANAR MONOLITHICS INDUSTRIES
4921 Robert J. Mathews Parkway STE 1
TEL: 916-542-1401 FAX: 301-662-1731
EMAIL: SALES@PMI-RF.COM
ISO 9001:2000 CERTIFIED

Frequency			-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	RF Input Power (dBm)
2000 MHz	INTERCEPT (mV)	-998.5	-107	-185	-265	-347	-424	-501	-583	-661	-740	-831	-925	-1009	-1086	-1163	Measured Value (mV)
	SLOPE (mV/dB)	-16.36	-8	-5	-3	-3	2	7	7	10	13	4	-8	-10	-6	-1	Error (mV)
			0.47	0.28	0.17	0.17	-0.12	-0.42	-0.40	-0.64	-0.81	-0.24	0.50	0.64	0.35	0.05	LINEARITY ERROR (dB)
			0.87	0.42	0.06	-0.22	-0.76	-1.30	-1.56	-2.05	-2.47	-2.21	-1.77	-1.91	-2.45	-3.00	ACCURACY ERROR (dB)
7250 MHz	INTERCEPT (mV)	-1053	-96	-178	-268	-358	-440	-520	-609	-702	-787	-874	-969	-1060	-1144	-1227	Measured Value (mV)
	SLOPE (mV/dB)	-17.49	-5	0	-3	-5	1	8	7	1	4	4	-3	-7	-3	1	Error (mV)
			0.26	0.00	0.15	0.27	-0.04	-0.47	-0.38	-0.07	-0.21	-0.24	0.20	0.40	0.20	-0.06	LINEARITY ERROR (dB)
			0.23	0.02	0.24	0.42	0.17	-0.21	-0.05	0.33	0.25	0.28	0.78	1.04	0.91	0.71	ACCURACY ERROR (dB)
12500 MHz	INTERCEPT (mV)	-1044	-73	-136	-228	-327	-419	-498	-583	-677	-770	-866	-961	-1053	-1136	-1220	Measured Value (mV)
	SLOPE (mV/dB)	-17.99	-18	8	7	-3	-5	6	11	7	4	-2	-7	-9	-2	4	Error (mV)
			1.02	-0.46	-0.37	0.16	0.27	-0.34	-0.61	-0.39	-0.22	0.12	0.40	0.51	0.12	-0.21	LINEARITY ERROR (dB)
			-1.10	-2.43	-2.13	-1.37	-1.05	-1.48	-1.56	-1.12	-0.74	-0.18	0.32	0.64	0.44	0.30	ACCURACY ERROR (dB)
	Flatness dB	+/-	0.98	1.43	1.18	0.90	0.61	0.64	0.75	1.19	1.36	1.24	1.27	1.48	1.68	1.85	



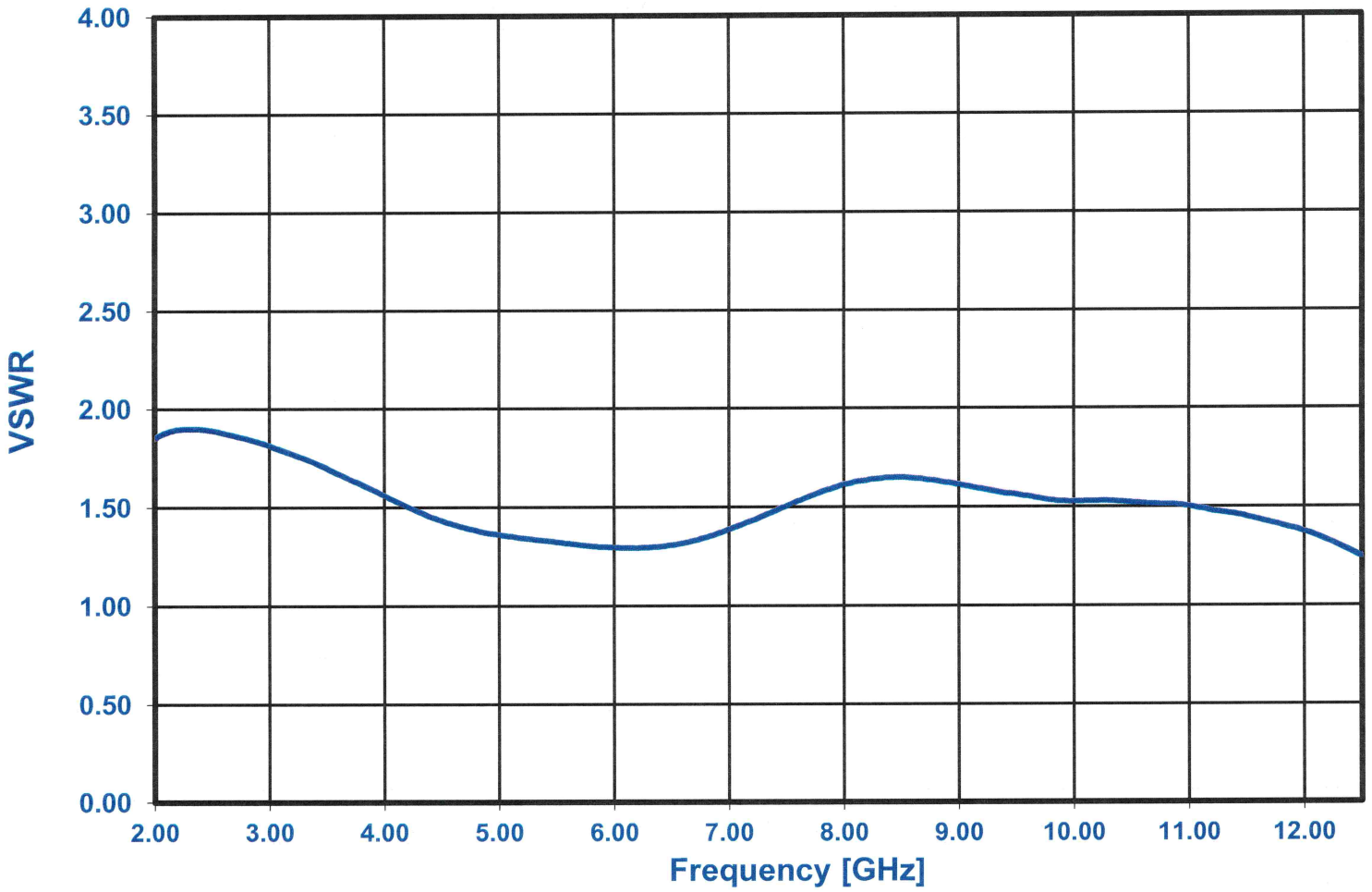




Model Number: SDLVA-212-65-16MV-12DBM
Serial Number: PL46793

Temperature: +25C

VSWR GRAPH

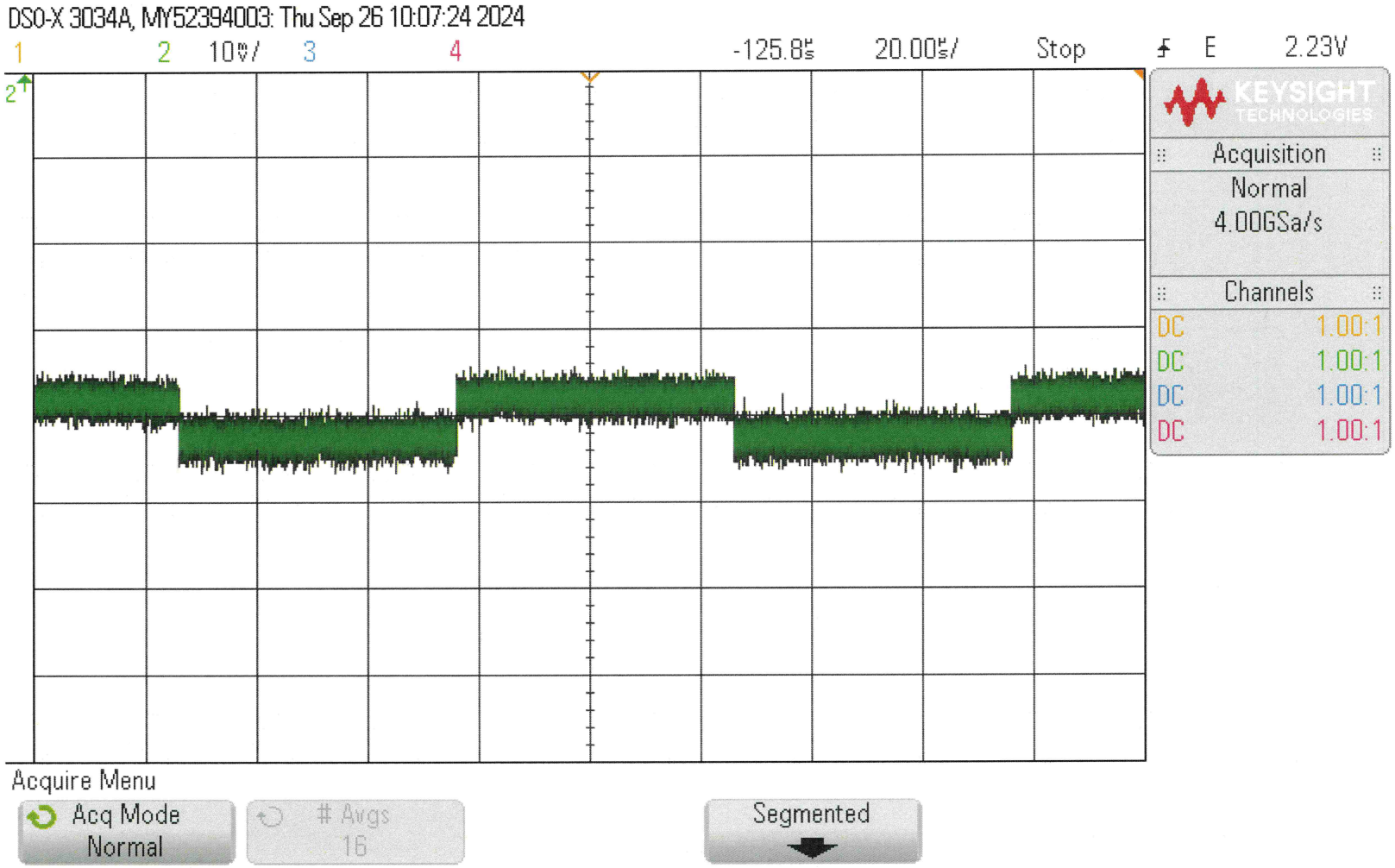


Input 1.90:1 Max

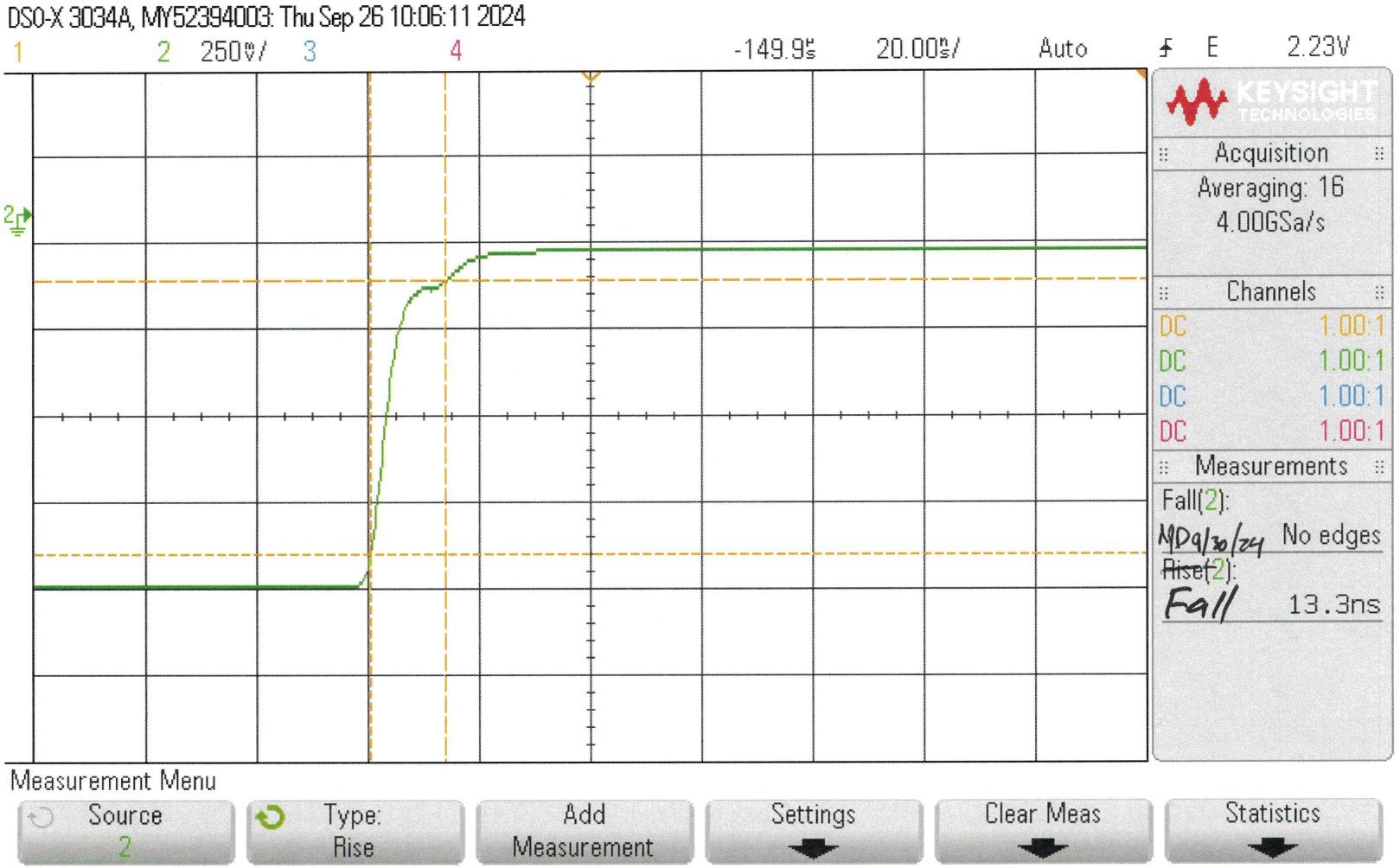
@ -20dBm

PL46793

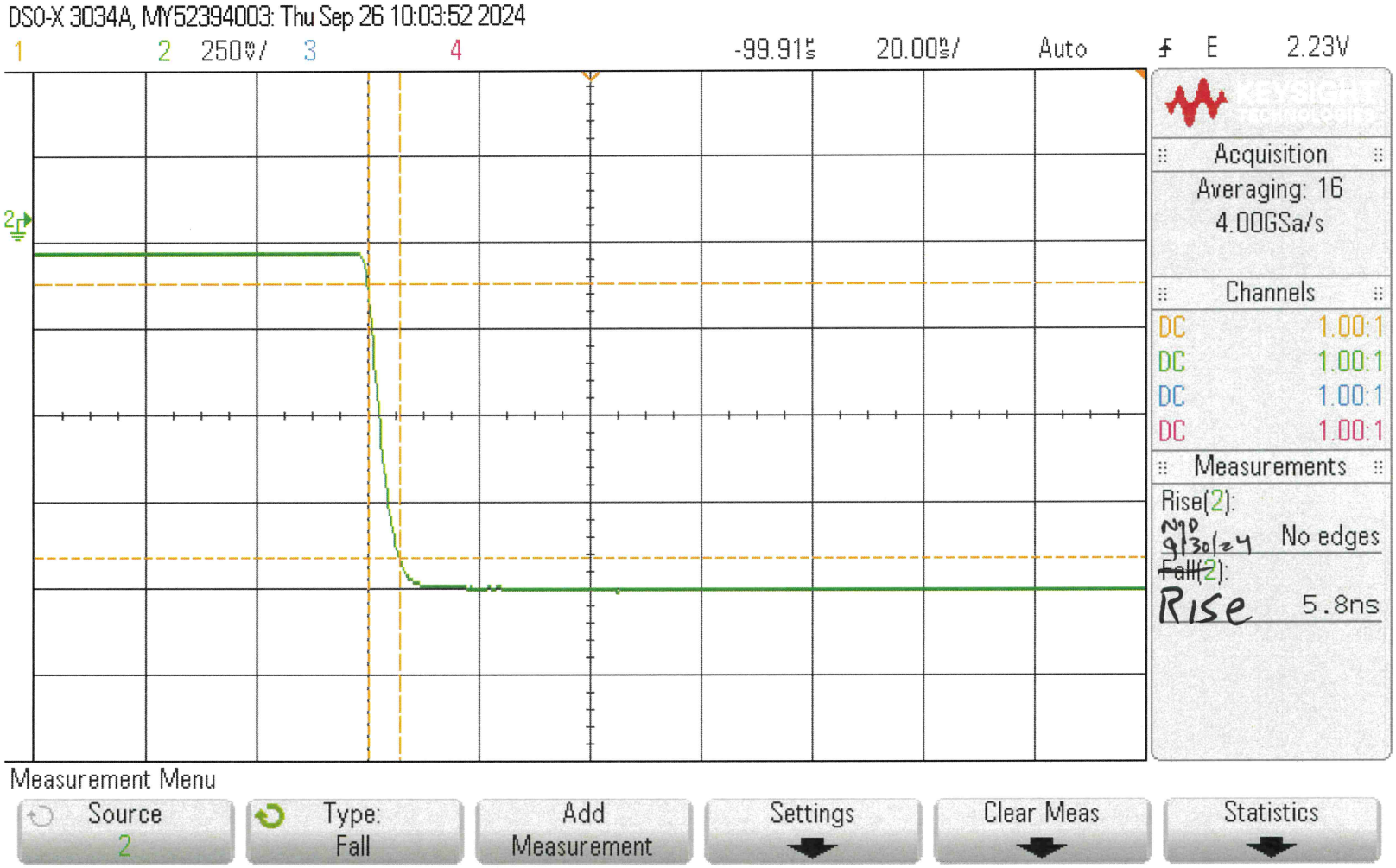
TSS - 64 dbm



PL46793
Fall & Recovery



PL46793
Rise Time



SDLVA-212-65-16MV-12DBM

SN# PL46793 **Power**

FREQ	-55 dbm		+10 dbm P-SAT	
2GHz	14.2	dBm	15	dBm
3GHz	15	dBm	15	dBm
4GHz	15.2	dBm	14.9	dBm
5GHz	15	dBm	15.2	dBm
6GHz	15	dBm	15.1	dBm
7GHz	15	dBm	15	dBm
8GHz	14.9	dBm	15.1	dBm
9GHz	14.6	dBm	14.6	dBm
10GHz	14.6	dBm	14.8	dBm
11GHz	14.7	dBm	15	dBm
12.5GHz	14.7	dBm	15.1	dBm