

LOG TRANSFER WITH FREQUENCY
 MODEL: SDLVA-2D5G4D9G-45-55MV
 TESTED BY: EA Valdez
 DATE: 06/13/2023
 SERIAL NO: PL24955
 Test Temp: +25C

GRAPH # 3



PLANAR MONOLITHICS INDUSTRIES
 4921 Robert J. Mathews Parkway, Suite 1
 El Dorado Hills, CA 95762
 Phone: 916-542-1401 Fax: 301-662-1731
 Email: sales@pmi-rf.com | www.pmi-

Vos -155mV

Frequency

2.5 GHz	INTERCEPT (mV)	3009
	SLOPE (mV/dB)	54.1

2.9 GHz	INTERCEPT (mV)	3013
	SLOPE (mV/dB)	54.6

3.3 GHz	INTERCEPT (mV)	3006
	SLOPE (mV/dB)	54.9

3.7 GHz	INTERCEPT (mV)	3008
	SLOPE (mV/dB)	55.1

4.1 GHz	INTERCEPT (mV)	3006
	SLOPE (mV/dB)	53.9

4.5 GHz	INTERCEPT (mV)	3003
	SLOPE (mV/dB)	54.6

4.9 GHz	INTERCEPT (mV)	2998
	SLOPE (mV/dB)	54.6

Flatness +/-dB

Slope Avg(mv/dB)	54.5
Slope Min(mv/dB)	53.9
Slope Max(mv/dB)	55.1

V Out Min @ -55dBm	0.01
V Out Max @ -55dBm	0.053
V Avg @ -55dBm	0.029
V Avg @ -10dBm	2.473

Max Delta -55 to -45dBm	1.12	dB
Max Delta -45 to -10dBm	1.47	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
41	295	568	845	1135	1394	1641	1928	2195	2471
7	-10	-7	-1	19	7	-16	1	-3	3
0.12	-0.18	-0.13	-0.01	0.35	0.14	-0.29	0.01	-0.05	0.05
X									
19	274	549	830	1121	1379	1628	1919	2196	2472
8	-9	-7	1	19	4	-20	-2	2	5
0.16	-0.17	-0.14	0.01	0.34	0.07	-0.37	-0.04	0.04	0.09
X									
10	257	523	806	1097	1358	1613	1904	2192	2469
22	-6	-14	-5	11	-2	-21	-5	9	12
0.39	-0.11	-0.26	-0.10	0.21	-0.04	-0.39	-0.09	0.16	0.21
X									
14	254	507	790	1078	1345	1608	1899	2199	2476
37	1	-21	-14	-1	-10	-22	-7	18	19
0.67	0.02	-0.39	-0.25	-0.02	-0.18	-0.40	-0.12	0.32	0.35
X									
53	300	563	842	1152	1425	1639	1907	2197	2474
10	-12	-19	-9	32	35	-20	-22	-1	6
0.19	-0.23	-0.35	-0.17	0.58	0.65	-0.38	-0.40	-0.02	0.12
X									
32	270	519	804	1092	1365	1614	1895	2198	2477
35	0	-25	-13	2	2	-22	-15	15	21
0.64	0.00	-0.45	-0.23	0.04	0.03	-0.41	-0.27	0.28	0.38
X									
33	271	518	796	1080	1359	1612	1893	2199	2473
38	3	-23	-18	-7	-1	-21	-13	20	21
0.70	0.06	-0.42	-0.33	-0.13	-0.02	-0.38	-0.24	0.36	0.38
X									
0.4	0.4	0.6	0.5	0.7	0.7	0.3	0.3	0.1	0.1

RF Input Power (dBm)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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Error (mV)
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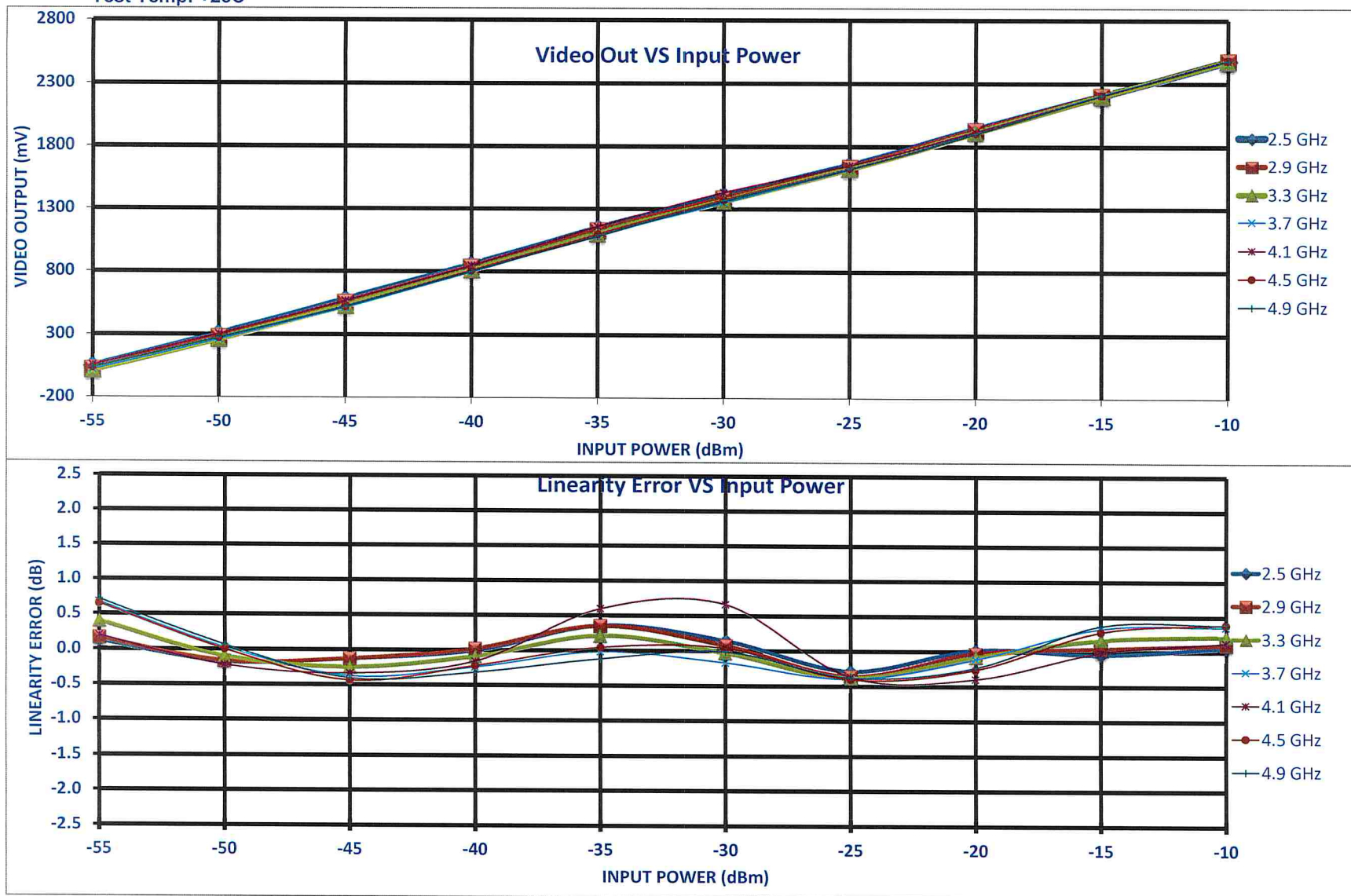
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MODEL: SDLVA-2D5G4D9G-45-55MV
SERIAL NO: PL24955
Test Temp: +25C

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Vos -175mV

Frequency

2.5 GHz	INTERCEPT (mV)	3032
	SLOPE (mV/dB)	56.2

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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-44	192	491	785	1093	1360	1615	1917	2183	2460
15	-30	-12	1	28	14	-12	9	-6	-10
0.27	-0.53	-0.21	0.02	0.50	0.25	-0.21	0.17	-0.10	-0.17

2.9 GHz	INTERCEPT (mV)	3026
	SLOPE (mV/dB)	56

-35	207	489	782	1085	1348	1607	1910	2191	2465
21	-17	-15	-3	20	3	-18	5	5	-1
0.37	-0.31	-0.28	-0.05	0.36	0.05	-0.32	0.08	0.10	-0.01

3.3 GHz	INTERCEPT (mV)	3018
	SLOPE (mV/dB)	56

-34	207	477	768	1066	1333	1597	1896	2191	2466
30	-9	-19	-8	9	-4	-20	-1	14	8
0.54	-0.16	-0.34	-0.15	0.17	-0.07	-0.36	-0.02	0.24	0.15

3.7 GHz	INTERCEPT (mV)	3022
	SLOPE (mV/dB)	56.2

-26	213	468	757	1049	1324	1595	1895	2202	2477
43	1	-25	-17	-6	-12	-22	-3	23	17
0.77	0.02	-0.44	-0.30	-0.10	-0.21	-0.39	-0.05	0.41	0.30

4.1 GHz	INTERCEPT (mV)	3024
	SLOPE (mV/dB)	55.2

5	258	515	802	1116	1399	1625	1904	2200	2476
17	-6	-25	-14	24	31	-19	-16	4	4
0.30	-0.11	-0.46	-0.26	0.43	0.56	-0.34	-0.29	0.08	0.08

4.5 GHz	INTERCEPT (mV)	3018
	SLOPE (mV/dB)	55.7

-9	233	481	771	1068	1349	1603	1890	2202	2478
39	2	-29	-18	1	3	-22	-13	20	17
0.69	0.03	-0.52	-0.31	0.01	0.05	-0.39	-0.24	0.36	0.31

4.9 GHz	INTERCEPT (mV)	3012
	SLOPE (mV/dB)	55.6

-5	237	483	768	1055	1339	1600	1887	2203	2475
42	6	-26	-19	-10	-4	-21	-12	26	19
0.76	0.11	-0.47	-0.34	-0.18	-0.08	-0.38	-0.22	0.46	0.35

Flatness +/-dB

0.4	0.6	0.4	0.4	0.6	0.7	0.3	0.3	0.2	0.2
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Slope Avg(mv/dB)	55.9
Slope Min(mv/dB)	55.2
Slope Max(mv/dB)	56.2

V Out Min @ -55dBm	-0.044
V Out Max @ -55dBm	0.005
V Avg @ -55dBm	-0.021
V Avg @ -10dBm	2.471

Max Delta -55 to -45dBm	1.18	dB
Max Delta -45 to -10dBm	1.34	dB

RF Input Power (dBm)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

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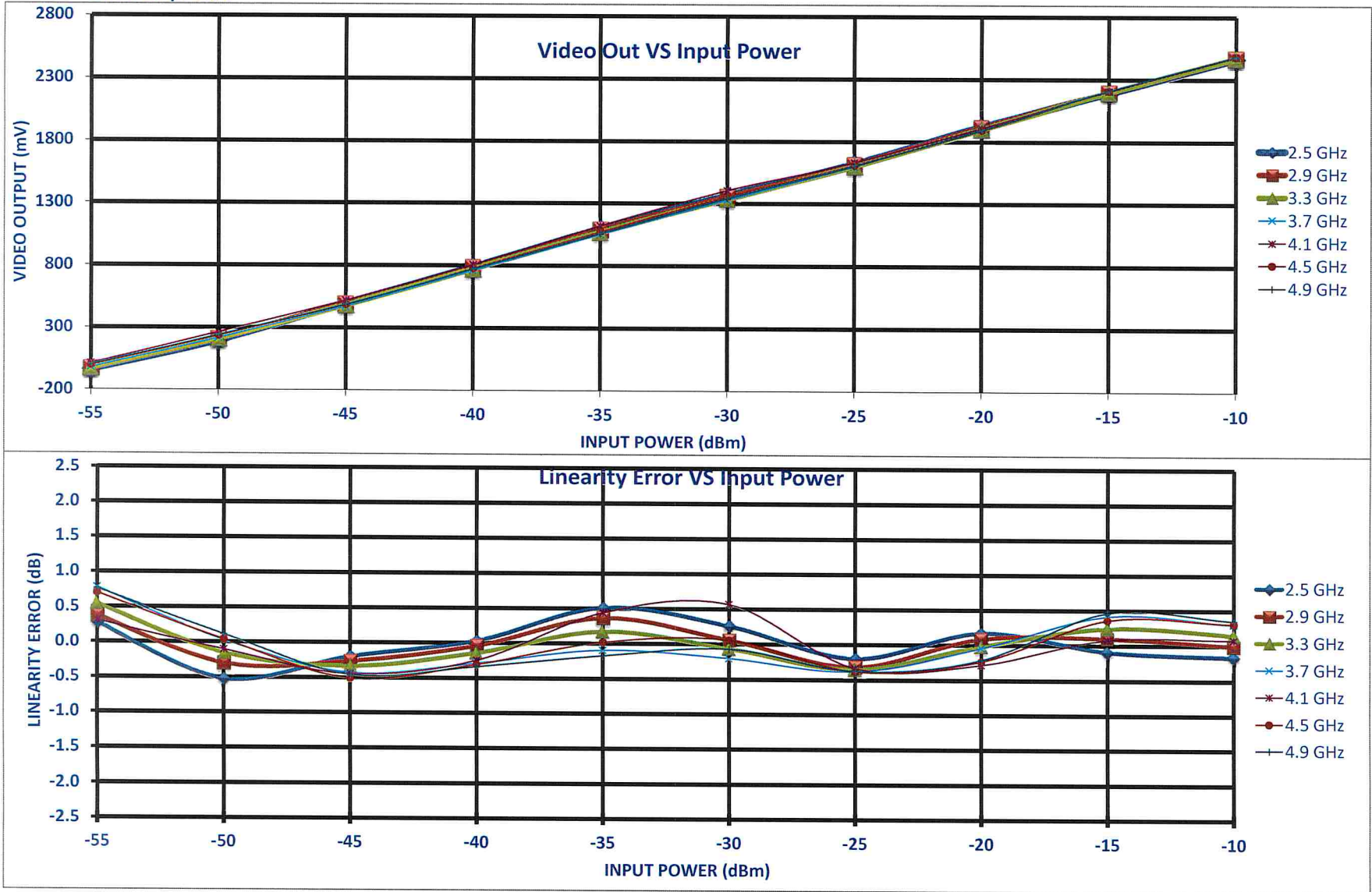
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Vos -135mV

Frequency

2.5 GHz	INTERCEPT (mV)	2982
	SLOPE (mV/dB)	53.6

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
35	279	573	850	1126	1383	1629	1902	2171	2450
1	-23	3	12	20	9	-13	-8	-7	4
0.02	-0.43	0.06	0.23	0.38	0.17	-0.24	-0.14	-0.13	0.08

RF Input Power (dBm)

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

2.9 GHz	INTERCEPT (mV)	2978
	SLOPE (mV/dB)	53.7

x

37	279	560	838	1115	1371	1620	1894	2174	2452
10	-16	-3	6	15	3	-16	-11	1	11
0.19	-0.30	-0.06	0.12	0.28	0.05	-0.31	-0.20	0.02	0.20

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

3.3 GHz	INTERCEPT (mV)	2972
	SLOPE (mV/dB)	54

x

28	262	531	813	1091	1353	1607	1879	2169	2449
24	-12	-13	0	8	0	-16	-14	6	17
0.45	-0.22	-0.23	-0.01	0.14	0.00	-0.30	-0.26	0.12	0.31

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

3.7 GHz	INTERCEPT (mV)	2969
	SLOPE (mV/dB)	54.3

x

21	246	505	789	1064	1333	1596	1867	2168	2450
39	-7	-20	-7	-4	-7	-15	-16	13	24
0.72	-0.13	-0.37	-0.14	-0.08	-0.12	-0.28	-0.29	0.25	0.44

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

4.1 GHz	INTERCEPT (mV)	2968
	SLOPE (mV/dB)	53.1

x

59	298	564	842	1142	1418	1627	1877	2166	2448
9	-18	-17	-4	31	41	-15	-30	-7	10
0.16	-0.33	-0.32	-0.08	0.58	0.78	-0.28	-0.57	-0.12	0.19

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

4.5 GHz	INTERCEPT (mV)	2962
	SLOPE (mV/dB)	53.9

x

34	260	511	795	1067	1345	1598	1861	2165	2449
39	-4	-23	-9	-7	2	-15	-22	12	27
0.73	-0.08	-0.43	-0.16	-0.12	0.03	-0.28	-0.40	0.23	0.49

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

4.9 GHz	INTERCEPT (mV)	2958
	SLOPE (mV/dB)	53.8

x

37	261	513	792	1064	1344	1599	1860	2164	2444
41	-5	-22	-12	-9	2	-13	-21	14	25
0.76	-0.08	-0.40	-0.22	-0.17	0.03	-0.23	-0.39	0.26	0.46

Measured Value (mV)
Error (mV)
LINEARITY ERROR (dB)

Flatness +/-dB

x

0.4	0.5	0.6	0.6	0.7	0.8	0.3	0.4	0.1	0.1
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Slope Avg(mv/dB)	53.8
Slope Min(mv/dB)	53.1
Slope Max(mv/dB)	54.3

V Out Min @ -55dBm	0.021
V Out Max @ -55dBm	0.059
V Avg @ -55dBm	0.036
V Avg @ -10dBm	2.449

Max Delta -55 to -45dBm	1.26	dB
Max Delta -45 to -10dBm	1.58	dB

