

LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-2D5G4D9G-45-55MV
TESTED BY: EA Valdez
DATE: 06/14/2023
SERIAL NO: PL24959
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-rf.com

Vos -195mV

Frequency

2.5 GHz	INTERCEPT (mV)	3060
	SLOPE (mV/dB)	54.8

2.9 GHz	INTERCEPT (mV)	3058
	SLOPE (mV/dB)	55.4

3.3 GHz	INTERCEPT (mV)	3075
	SLOPE (mV/dB)	55.4

3.7 GHz	INTERCEPT (mV)	3057
	SLOPE (mV/dB)	55.4

4.1 GHz	INTERCEPT (mV)	3058
	SLOPE (mV/dB)	56.2

4.5 GHz	INTERCEPT (mV)	3058
	SLOPE (mV/dB)	56

4.9 GHz	INTERCEPT (mV)	3045
	SLOPE (mV/dB)	56.1

Flatness +/-dB

Slope Avg(mv/dB)	55.6
Slope Min(mv/dB)	54.8
Slope Max(mv/dB)	56.2

V Out Min @ -55dBm	-0.013
V Out Max @ -55dBm	0.052
V Avg @ -55dBm	0.022
V Avg @ -10dBm	2.464

Max Delta -55 to -45dBm	1.76	dB
Max Delta -45 to -10dBm	1.76	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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52	304	597	870	1127	1425	1724	1980	2250	2472
4	-18	1	1	-16	8	33	15	12	-40
0.07	-0.33	0.03	0.01	-0.30	0.15	0.61	0.28	0.21	-0.73

29	274	550	833	1097	1390	1697	1971	2246	2468
21	-11	-12	-7	-20	-4	26	22	20	-35
0.38	-0.20	-0.22	-0.12	-0.36	-0.07	0.46	0.40	0.36	-0.63

42	286	563	849	1136	1444	1724	1984	2255	2471
12	-20	-20	-11	-1	30	33	16	11	-50
0.23	-0.37	-0.37	-0.20	-0.02	0.54	0.60	0.30	0.19	-0.91

34	273	545	828	1105	1409	1696	1966	2244	2466
24	-14	-19	-13	-13	14	24	17	18	-37
0.43	-0.26	-0.35	-0.24	-0.24	0.25	0.43	0.31	0.33	-0.67

1	239	502	791	1067	1379	1677	1955	2238	2461
35	-8	-26	-18	-23	7	24	21	23	-35
0.62	-0.15	-0.47	-0.33	-0.42	0.13	0.44	0.38	0.42	-0.62

7	246	512	799	1077	1390	1681	1957	2239	2462
31	-10	-25	-18	-20	13	24	20	21	-36
0.55	-0.18	-0.44	-0.32	-0.36	0.23	0.42	0.35	0.38	-0.64

-13	227	499	788	1057	1363	1663	1943	2226	2450
30	-11	-20	-11	-23	2	22	21	23	-33
0.53	-0.19	-0.35	-0.20	-0.41	0.04	0.39	0.37	0.42	-0.59

0.6	0.7	0.9	0.7	0.7	0.7	0.5	0.4	0.3	0.2
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RF Input Power (dBm)

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

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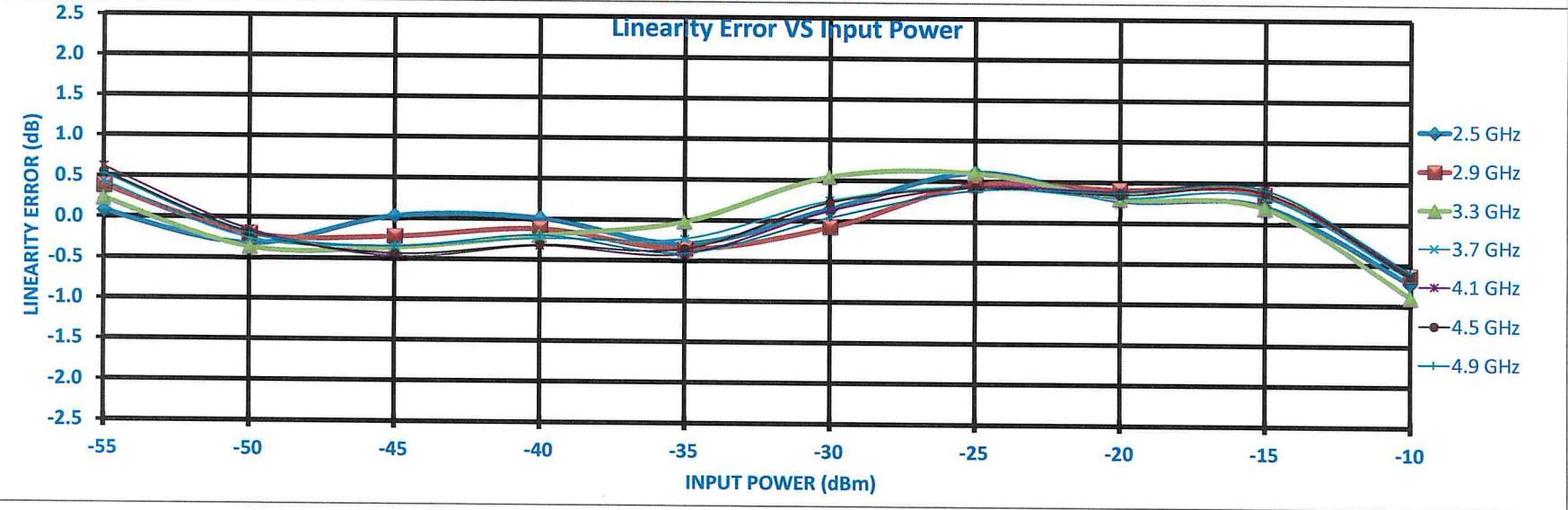
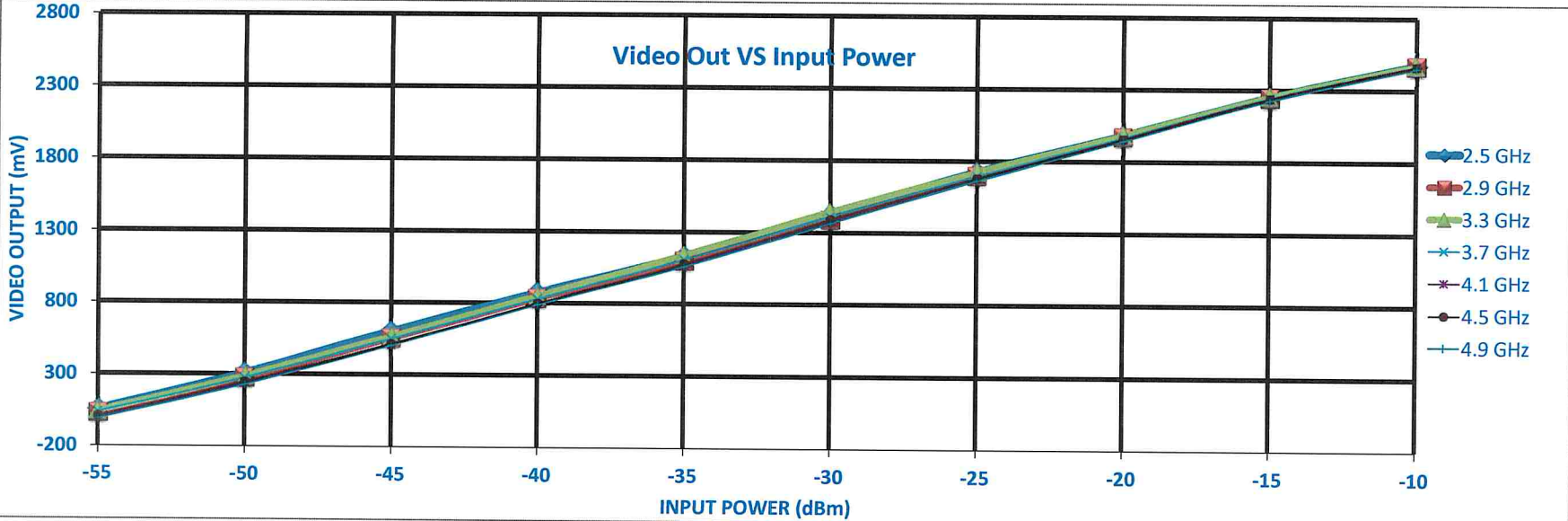
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LOG TRANSFER WITH FREQUENCY
MODEL: SDLVA-2D5G4D9G-45-55MV
TESTED BY: EA Valdez
DATE: 06/14/2023
SERIAL NO: PL24959
Test Temp: -20C

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Vos -235mV

Frequency

2.5 GHz	INTERCEPT (mV)	3060
	SLOPE (mV/dB)	55.4

2.9 GHz	INTERCEPT (mV)	3058
	SLOPE (mV/dB)	55.9

3.3 GHz	INTERCEPT (mV)	3072
	SLOPE (mV/dB)	55.5

3.7 GHz	INTERCEPT (mV)	3060
	SLOPE (mV/dB)	55.7

4.1 GHz	INTERCEPT (mV)	3061
	SLOPE (mV/dB)	56.6

4.5 GHz	INTERCEPT (mV)	3060
	SLOPE (mV/dB)	56.4

4.9 GHz	INTERCEPT (mV)	3047
	SLOPE (mV/dB)	56.6

Flatness +/-dB

Slope Avg(mv/dB)	56.0
Slope Min(mv/dB)	55.4
Slope Max(mv/dB)	56.6

V Out Min @ -55dBm	-0.042
V Out Max @ -55dBm	0.031
V Avg @ -55dBm	-0.003
V Avg @ -10dBm	2.457

Max Delta -55 to -45dBm	1.57	dB
Max Delta -45 to -10dBm	1.57	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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16	275	568	846	1112	1410	1713	1969	2240	2462
1	-17	-1	0	-11	10	37	16	10	-45
0.01	-0.31	-0.02	0.00	-0.19	0.19	0.66	0.29	0.18	-0.81

2	252	528	813	1087	1380	1688	1965	2238	2460
19	-11	-14	-9	-15	-1	27	25	18	-39
0.33	-0.19	-0.26	-0.16	-0.26	-0.02	0.49	0.44	0.33	-0.70

31	277	558	843	1134	1439	1721	1979	2248	2465
9	-22	-18	-11	3	31	36	16	8	-52
0.16	-0.40	-0.33	-0.19	0.06	0.56	0.64	0.30	0.15	-0.94

15	259	532	815	1103	1407	1694	1964	2241	2460
20	-15	-20	-16	-7	19	27	18	17	-43
0.36	-0.26	-0.36	-0.29	-0.12	0.33	0.48	0.33	0.30	-0.77

-24	224	487	775	1063	1376	1671	1953	2233	2454
28	-7	-27	-22	-17	13	25	24	21	-41
0.50	-0.12	-0.47	-0.38	-0.29	0.23	0.45	0.43	0.38	-0.72

-19	230	498	783	1071	1384	1675	1954	2233	2455
24	-9	-23	-20	-14	17	25	22	19	-41
0.43	-0.16	-0.41	-0.36	-0.25	0.29	0.45	0.39	0.34	-0.73

-42	209	480	768	1048	1355	1653	1939	2221	2443
24	-8	-20	-15	-18	6	21	24	23	-38
0.43	-0.14	-0.35	-0.26	-0.32	0.11	0.37	0.42	0.40	-0.67

0.7	0.6	0.8	0.7	0.8	0.7	0.6	0.4	0.2	0.2
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RF Input Power (dBm)

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 MODEL: SDLVA-2D5G4D9G-45-55MV
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Vos -145mV

Frequency

2.5 GHz	INTERCEPT (mV)	3039
	SLOPE (mV/dB)	54.6

2.9 GHz	INTERCEPT (mV)	3037
	SLOPE (mV/dB)	55.1

3.3 GHz	INTERCEPT (mV)	3066
	SLOPE (mV/dB)	56.2

3.7 GHz	INTERCEPT (mV)	3035
	SLOPE (mV/dB)	55.3

4.1 GHz	INTERCEPT (mV)	3031
	SLOPE (mV/dB)	56

4.5 GHz	INTERCEPT (mV)	3033
	SLOPE (mV/dB)	55.8

4.9 GHz	INTERCEPT (mV)	3023
	SLOPE (mV/dB)	55.6

Flatness +/-dB

Slope Avg(mv/dB)	55.5
Slope Min(mv/dB)	54.6
Slope Max(mv/dB)	56.2

V Out Min @ -55dBm	0.005
V Out Max @ -55dBm	0.049
V Avg @ -55dBm	0.022
V Avg @ -10dBm	2.452

Max Delta -55 to -45dBm	1.80	dB
Max Delta -45 to -10dBm	1.80	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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49	288	581	858	1109	1404	1702	1963	2235	2458
13	-21	-1	3	-19	3	28	16	15	-35
0.24	-0.39	-0.02	0.05	-0.35	0.05	0.51	0.29	0.27	-0.65

38	269	544	831	1082	1376	1683	1956	2234	2457
30	-14	-15	-3	-27	-9	23	21	23	-29
0.55	-0.26	-0.26	-0.05	-0.50	-0.16	0.42	0.37	0.42	-0.53

15	237	501	801	1072	1391	1692	1966	2246	2461
42	-17	-34	-15	-26	12	32	25	24	-42
0.75	-0.30	-0.61	-0.27	-0.46	0.22	0.57	0.44	0.42	-0.76

31	255	525	817	1077	1386	1677	1945	2227	2452
35	-17	-24	-8	-24	9	23	15	21	-30
0.63	-0.31	-0.43	-0.14	-0.44	0.16	0.42	0.27	0.38	-0.55

5	219	481	779	1037	1351	1658	1931	2219	2446
52	-14	-32	-14	-36	-2	26	19	27	-26
0.92	-0.25	-0.57	-0.25	-0.64	-0.03	0.46	0.34	0.48	-0.46

10	226	491	788	1048	1363	1663	1933	2220	2447
47	-16	-30	-12	-31	5	26	17	24	-28
0.84	-0.29	-0.54	-0.22	-0.56	0.08	0.46	0.30	0.44	-0.49

7	224	497	794	1048	1355	1657	1926	2213	2440
42	-19	-24	-5	-29	0	24	15	24	-27
0.75	-0.35	-0.44	-0.09	-0.52	0.00	0.43	0.27	0.43	-0.48

0.4	0.6	0.9	0.7	0.6	0.5	0.4	0.4	0.3	0.2
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