

LOG TRANSFER WITH FREQUENCY  
 MODEL: SDLVA-2D5G4D9G-45-55MV  
 TESTED BY: Simon K.  
 DATE: 05/29/20  
 SERIAL NO: PL29041  
 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-

Frequency

2.5 GHz	INTERCEPT (mV)	3089
	SLOPE (mV/dB)	55.6

2.9 GHz	INTERCEPT (mV)	3078
	SLOPE (mV/dB)	56

3.3 GHz	INTERCEPT (mV)	3079
	SLOPE (mV/dB)	55.9

3.7 GHz	INTERCEPT (mV)	3073
	SLOPE (mV/dB)	55.6

4.1 GHz	INTERCEPT (mV)	3077
	SLOPE (mV/dB)	56.1

4.5 GHz	INTERCEPT (mV)	3076
	SLOPE (mV/dB)	55.7

4.9 GHz	INTERCEPT (mV)	3061
	SLOPE (mV/dB)	55.7

Flatness +/-dB	
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Slope Avg(mv/dB)	55.8
Slope Min(mv/dB)	55.6
Slope Max(mv/dB)	56.1

V Out Min @ -55dBm	-0.017
V Out Max @ -55dBm	0.003
V Avg @ -55dBm	-0.008
V Avg @ -10dBm	2.498

Max Delta -55 to -45dBm	1.11	dB
Max Delta -45 to -10dBm	1.11	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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-6	279	591	908	1174	1436	1731	1984	2219	2504
-37	-30	4	43	31	15	32	7	-36	-29
-0.67	-0.54	0.07	0.77	0.56	0.27	0.58	0.13	-0.65	-0.52

x

-17	255	548	871	1145	1392	1701	1967	2213	2501
-15	-23	-10	33	27	-6	23	9	-25	-17
-0.26	-0.40	-0.17	0.60	0.49	-0.10	0.42	0.17	-0.44	-0.30

x

-13	257	542	867	1156	1419	1710	1964	2209	2497
-15	-25	-19	26	35	18	30	4	-31	-23
-0.27	-0.44	-0.35	0.46	0.63	0.33	0.53	0.07	-0.55	-0.40

x

0	268	549	871	1159	1425	1710	1959	2211	2496
-13	-23	-20	23	33	21	28	-1	-27	-21
-0.23	-0.42	-0.37	0.42	0.60	0.38	0.50	-0.02	-0.49	-0.37

x

-11	254	529	852	1143	1414	1704	1954	2210	2500
-5	-20	-25	17	28	19	29	-2	-26	-16
-0.08	-0.36	-0.45	0.31	0.50	0.34	0.51	-0.03	-0.46	-0.29

x

3	270	550	869	1161	1437	1714	1957	2213	2500
-12	-23	-22	19	33	30	29	-6	-28	-20
-0.22	-0.42	-0.39	0.34	0.59	0.55	0.52	-0.11	-0.51	-0.36

x

-9	257	536	853	1136	1402	1695	1943	2203	2491
-7	-19	-19	20	25	12	27	-4	-22	-13
-0.12	-0.34	-0.33	0.36	0.44	0.22	0.48	-0.07	-0.40	-0.23

x

0.2	0.2	0.6	0.5	0.3	0.4	0.3	0.4	0.1	0.1
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RF Input Power (dBm)

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

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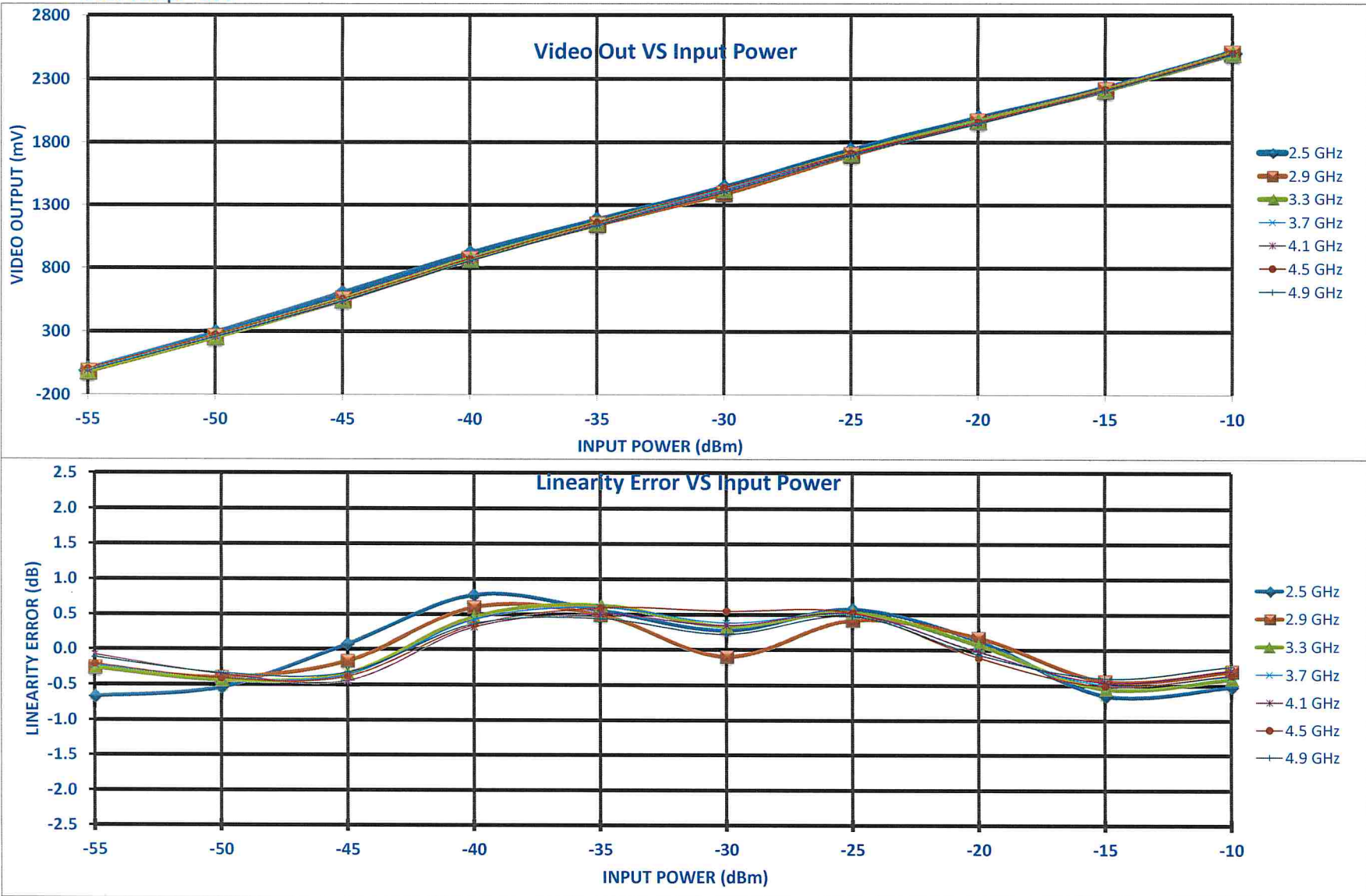
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MODEL: SDLVA-2D5G4D9G-45-55MV  
SERIAL NO: PL29041  
Test Temp: +25C

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LOG TRANSFER WITH FREQUENCY  
 MODEL: SDLVA-2D5G4D9G-45-55MV  
 TESTED BY: Simon K.  
 DATE: 05/19/2020  
 SERIAL NO: PL29041  
 Test Temp: +85C

TEMPERATURE VERIFICATION



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Frequency

2.5 GHz	INTERCEPT (mV)	3117
	SLOPE (mV/dB)	56.3

2.9 GHz	INTERCEPT (mV)	3115
	SLOPE (mV/dB)	56.2

3.3 GHz	INTERCEPT (mV)	3112
	SLOPE (mV/dB)	56.5

3.7 GHz	INTERCEPT (mV)	3102
	SLOPE (mV/dB)	56.5

4.1 GHz	INTERCEPT (mV)	3096
	SLOPE (mV/dB)	56.4

4.5 GHz	INTERCEPT (mV)	3096
	SLOPE (mV/dB)	56.2

4.9 GHz	INTERCEPT (mV)	3102
	SLOPE (mV/dB)	56.3

Flatness +/-dB	
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Slope Avg(mv/dB)	56.3
Slope Min(mv/dB)	56.2
Slope Max(mv/dB)	56.5

V Out Min @ -55dBm	0.005
V Out Max @ -55dBm	0.021
V Avg @ -55dBm	0.011
V Avg @ -10dBm	2.532

Max Delta -55 to -45dBm	0.82	dB
Max Delta -45 to -10dBm	0.89	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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8	256	577	909	1180	1435	1744	1993	2236	2536
-13	-46	-7	44	33	7	34	2	-37	-18
-0.22	-0.82	-0.12	0.78	0.59	0.12	0.61	0.03	-0.65	-0.32

x

21	271	576	903	1177	1435	1742	1992	2243	2540
-5	-36	-12	34	27	5	31	0	-30	-14
-0.10	-0.65	-0.21	0.61	0.49	0.08	0.55	0.00	-0.53	-0.24

x

12	256	546	877	1161	1425	1732	1981	2237	2536
6	-32	-24	24	26	8	32	-1	-28	-11
0.11	-0.57	-0.43	0.43	0.46	0.13	0.57	-0.02	-0.49	-0.19

x

5	246	531	862	1147	1417	1723	1969	2227	2528
11	-31	-28	20	23	10	34	-3	-27	-9
0.19	-0.54	-0.50	0.36	0.40	0.18	0.60	-0.05	-0.48	-0.16

x

6	248	531	859	1145	1415	1719	1964	2223	2526
11	-29	-28	18	22	10	32	-4	-27	-6
0.20	-0.51	-0.49	0.32	0.40	0.18	0.58	-0.08	-0.49	-0.11

x

13	260	546	869	1152	1425	1724	1966	2225	2528
6	-28	-23	19	22	14	32	-7	-29	-6
0.10	-0.50	-0.41	0.34	0.38	0.25	0.57	-0.12	-0.51	-0.11

x

12	259	543	867	1151	1428	1729	1969	2229	2531
7	-27	-25	18	20	15	35	-7	-28	-8
0.13	-0.49	-0.44	0.31	0.35	0.27	0.62	-0.12	-0.50	-0.14

x

0.1	0.2	0.4	0.4	0.3	0.2	0.2	0.3	0.2	0.1
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RF Input Power (dBm)

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 TESTED BY: Simon K.  
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 SERIAL NO: PL29041  
 Test Temp: -20C

TEMPERATURE VERIFICATION

Frequency

2.5 GHz	INTERCEPT (mV)	3122
	SLOPE (mV/dB)	56.6

2.9 GHz	INTERCEPT (mV)	3120
	SLOPE (mV/dB)	56.5

3.3 GHz	INTERCEPT (mV)	3118
	SLOPE (mV/dB)	56.7

3.7 GHz	INTERCEPT (mV)	3111
	SLOPE (mV/dB)	56.6

4.1 GHz	INTERCEPT (mV)	3110
	SLOPE (mV/dB)	56.5

4.5 GHz	INTERCEPT (mV)	3108
	SLOPE (mV/dB)	56.3

4.9 GHz	INTERCEPT (mV)	3112
	SLOPE (mV/dB)	56.3

Flatness +/-dB

Slope Avg(mv/dB)	56.5
Slope Min(mv/dB)	56.3
Slope Max(mv/dB)	56.7

V Out Min @ -55dBm	-0.028
V Out Max @ -55dBm	-0.003
V Avg @ -55dBm	-0.013
V Avg @ -10dBm	2.524

Max Delta -55 to -45dBm	0.62	dB
Max Delta -45 to -10dBm	0.64	dB

-55	-50	-45	-40	-35	-30	-25	-20	-15	-10
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-28	267	579	896	1176	1440	1740	2002	2237	2524
-39	-26	3	37	34	15	32	12	-36	-32
-0.68	-0.47	0.05	0.65	0.60	0.27	0.57	0.20	-0.64	-0.57

x

-12	275	575	889	1175	1438	1736	2003	2244	2528
-27	-22	-4	27	31	12	27	12	-29	-28
-0.47	-0.39	-0.08	0.49	0.55	0.21	0.48	0.21	-0.52	-0.49

x

-17	264	549	866	1165	1430	1727	1994	2241	2525
-15	-18	-16	17	32	14	27	11	-26	-25
-0.27	-0.32	-0.29	0.30	0.57	0.24	0.48	0.19	-0.46	-0.45

x

-15	265	544	860	1163	1432	1724	1988	2235	2521
-13	-16	-20	13	33	19	28	9	-27	-24
-0.23	-0.29	-0.36	0.23	0.58	0.33	0.49	0.16	-0.48	-0.43

x

-10	269	548	860	1164	1434	1723	1986	2237	2522
-12	-16	-19	10	32	19	26	6	-25	-23
-0.21	-0.28	-0.34	0.19	0.57	0.34	0.46	0.11	-0.44	-0.40

x

-3	278	562	869	1168	1441	1725	1985	2241	2524
-15	-16	-13	12	30	21	24	2	-23	-22
-0.27	-0.28	-0.24	0.22	0.53	0.38	0.42	0.04	-0.41	-0.38

x

-3	281	566	872	1172	1447	1729	1987	2244	2526
-18	-16	-12	12	31	24	25	1	-23	-23
-0.32	-0.28	-0.22	0.22	0.54	0.43	0.44	0.02	-0.42	-0.41

x

0.2	0.2	0.3	0.3	0.1	0.2	0.2	0.2	0.1	0.1
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