

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4303
 TESTED BY: H. HAHN
 DATE: 5/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 RF Input Power (dBm)

0.30 INTERCEPT (mV) 1633
 SLOPE (mV/dB) 27.65
 LIMITED IF OUTPUT (dBm)

-166	-37	116	260	383	535	667	795	950	1074	1210	1366	1492	1646	1758	Measured Value (mV)
-2	-11	4	10	-6	8	2	-8	8	-6	-8	10	-2	13	-13	Error (mV)
-16.30	-16.13	-16.10	-16.06	-16.02	-15.98	-15.97	-15.96	-15.96	-15.97	-15.98	-15.98	-15.98	-15.98	-15.99	Measured Value (mV)

0.55 INTERCEPT (mV) 1665
 SLOPE (mV/dB) 26.24
 LIMITED IF OUTPUT (dBm)

-135	-17	124	257	377	523	647	770	918	1034	1164	1313	1432	1579	1686	Measured Value (mV)
6	-8	2	4	-8	7	0	-8	9	-7	-7	10	-3	13	-11	Error (mV)
-16.24	-16.14	-16.08	-16.00	-15.94	-15.94	-15.99	-15.99	-16.00	-16.01	-16.01	-16.01	-16.01	-16.02	-16.04	Measured Value (mV)

0.80 INTERCEPT (mV) 1471
 SLOPE (mV/dB) 24.55
 LIMITED IF OUTPUT (dBm)

-108	5	128	239	346	485	604	722	861	971	1096	1235	1349	1489	1591	Measured Value (mV)
17	7	7	-5	-20	-3	-7	-13	4	-9	-7	10	1	19	-2	Error (mV)
-16.18	-16.09	-16.05	-16.04	-15.98	-15.91	-15.97	-16.00	-16.02	-16.04	-16.03	-16.03	-16.03	-16.04	-16.09	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 0.80
 FREQUENCY FLATNESS ± 3.33

TSS 25C
 -65dBm MAX -70 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.49V

INPUT VSWR 2:1 MAX @ 25C
 1.1:1

IF OUTPUT VSWR 2:1 MAX @ 25C
 1.4:1

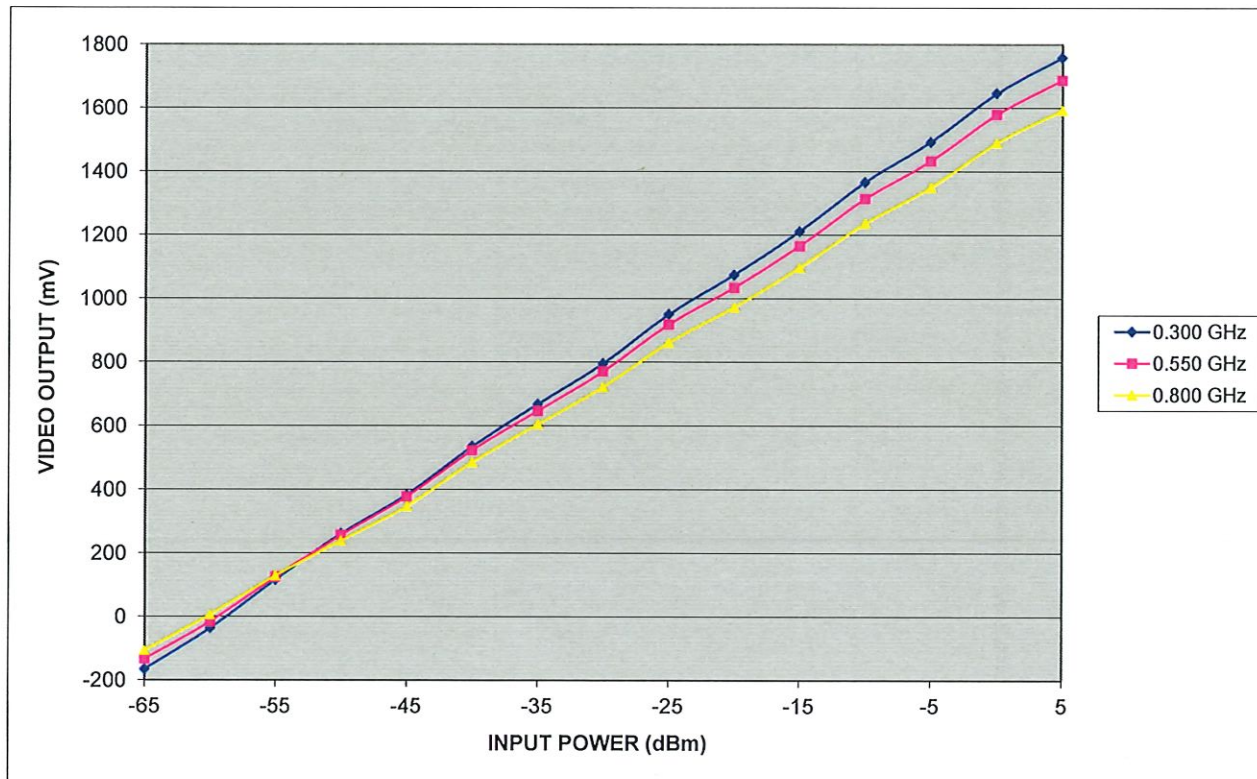
VIDEO RISE TIME 25 nS MAX @ 25C
 20 nS

VIDEO FALL TIME 80 nS MAX @ 25C
 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C
 12 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 117 mA



LIMITED IF OUTPUT MAX -15.91 dBm
 LIMITED IF OUTPUT MIN -16.30 dBm
 LIMITED IF FLATNESS ± 0.19 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4303
 TESTED BY: H. HAHN
 DATE: 5/AUG/2008



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Frequency

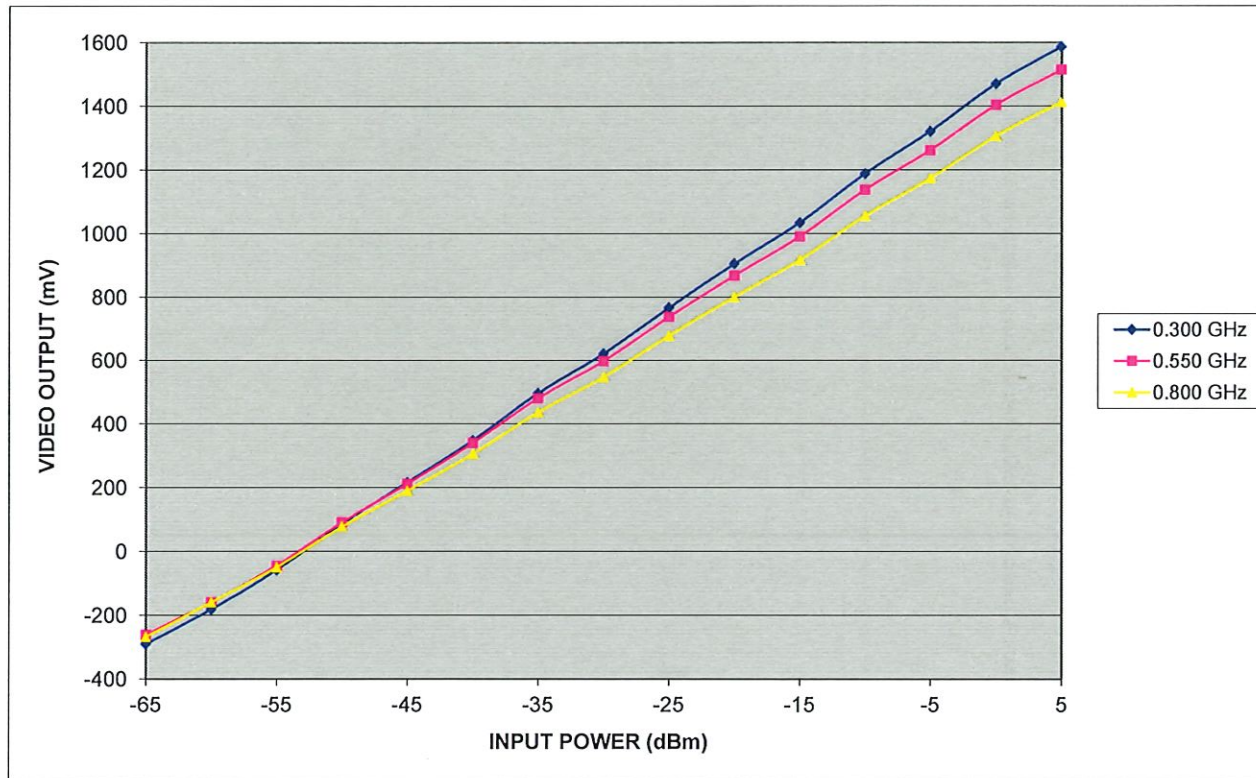
0.30 INTERCEPT (mV) 1452
 SLOPE (mV/dB) 27.28
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1386
 SLOPE (mV/dB) 25.84
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1289
 SLOPE (mV/dB) 24.28
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.70
 LINEARITY(-65 TO +5dBm) ± 1.25
 FREQUENCY FLATNESS ± 3.48

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-291	-182	-58	87	216	348	497	621	766	905	1034	1188	1321	1470	1586	Measured Value (mV)
0.30 Error (mV)	30	2	-10	-1	-8	-13	-1	-13	-4	-2	-9	9	5	18	-3	Error (mV)
0.30 Limited IF Output (dBm)	-16.72	-16.23	-16.03	-15.93	-15.85	-16.80	-16.77	-15.76	-15.75	-15.75	-15.76	-15.76	-15.76	-15.76	-15.75	Measured Value (mV)
0.55 Measured Value (mV)	-261	-161	-46	91	212	340	481	598	737	867	989	1137	1261	1404	1514	Measured Value (mV)
0.55 Error (mV)	32	4	-10	-3	-11	-12	-1	-13	-3	-2	-9	9	5	18	-1	Error (mV)
0.55 Limited IF Output (dBm)	-16.67	-16.22	-16.03	-15.91	-15.83	-15.79	-16.78	-16.80	-16.81	-16.82	-16.83	-16.83	-16.83	-15.84	-15.86	Measured Value (mV)
0.80 Measured Value (mV)	-269	-160	-50	78	190	305	437	547	677	800	916	1054	1173	1306	1411	Measured Value (mV)
0.80 Error (mV)	20	7	-4	2	-7	-13	-3	-14	-5	-4	-9	8	5	17	1	Error (mV)
0.80 Limited IF Output (dBm)	-16.66	-16.14	-15.97	-15.88	-15.85	-16.84	-16.84	-16.86	-16.87	-16.87	-16.87	-16.88	-16.89	-16.91	-16.96	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.75 dBm
 LIMITED IF OUTPUT MIN -16.72 dBm
 LIMITED IF FLATNESS ± 0.48 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4303
 TESTED BY: H. HAHN
 DATE: 4/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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Frequency

0.30 INTERCEPT (mV) 1424
 SLOPE (mV/dB) 27.19
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1359
 SLOPE (mV/dB) 25.77
 LIMITED IF OUTPUT (dBm)

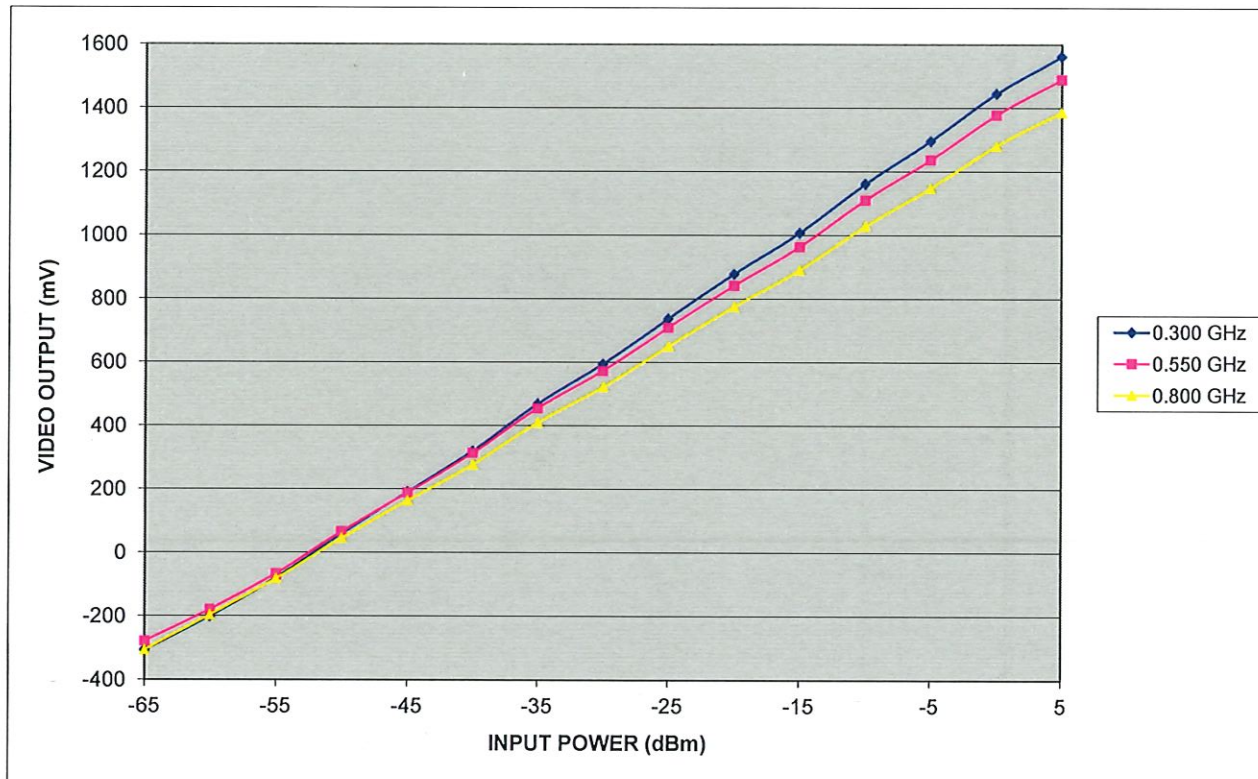
0.80 INTERCEPT (mV) 1265
 SLOPE (mV/dB) 24.44
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.39
 FREQUENCY FLATNESS ± 3.49

TSS 95C
 -65dBm MAX -68 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.36V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-306	-201	-82	59	191	320	469	594	737	878	1007	1161	1295	1444	1561	Measured Value (mV)
0.30 Error (mV)	37	6	-11	-5	-10	-17	-4	-14	-7	-2	-9	9	7	20	1	Error (mV)
0.30 Limited If Output (dBm)	-16.85	-16.35	-16.13	-16.01	-16.94	-16.88	-16.85	-16.83	-16.83	-16.83	-16.83	-16.83	-16.83	-16.82	-16.81	Limited If Output (dBm)
0.55 Measured Value (mV)	-280	-180	-68	65	188	313	454	572	709	841	983	1111	1236	1378	1489	Measured Value (mV)
0.55 Error (mV)	36	7	-10	-5	-12	-16	-3	-14	-6	-2	-10	9	6	19	1	Error (mV)
0.55 Limited If Output (dBm)	-16.70	-16.32	-16.12	-16.99	-16.91	-16.87	-16.86	-16.87	-16.88	-16.89	-16.90	-16.90	-16.90	-16.91	-16.94	Limited If Output (dBm)
0.80 Measured Value (mV)	-306	-197	-83	45	163	277	409	521	650	774	890	1028	1147	1280	1386	Measured Value (mV)
0.80 Error (mV)	17	4	-5	2	-3	-11	-1	-11	-5	-2	-9	7	4	15	-1	Error (mV)
0.80 Limited If Output (dBm)	-16.84	-16.30	-16.08	-16.97	-16.92	-16.92	-16.93	-16.94	-16.94	-16.95	-16.95	-16.96	-16.97	-16.00	-16.05	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -15.81 dBm
 LIMITED IF OUTPUT MIN -16.85 dBm
 LIMITED IF FLATNESS ± 0.52 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4303
 TESTED BY: H. HAHN
 DATE: 5/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1921
 SLOPE (mV/dB) 28.96
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1857
 SLOPE (mV/dB) 27.78
 LIMITED IF OUTPUT (dBm)

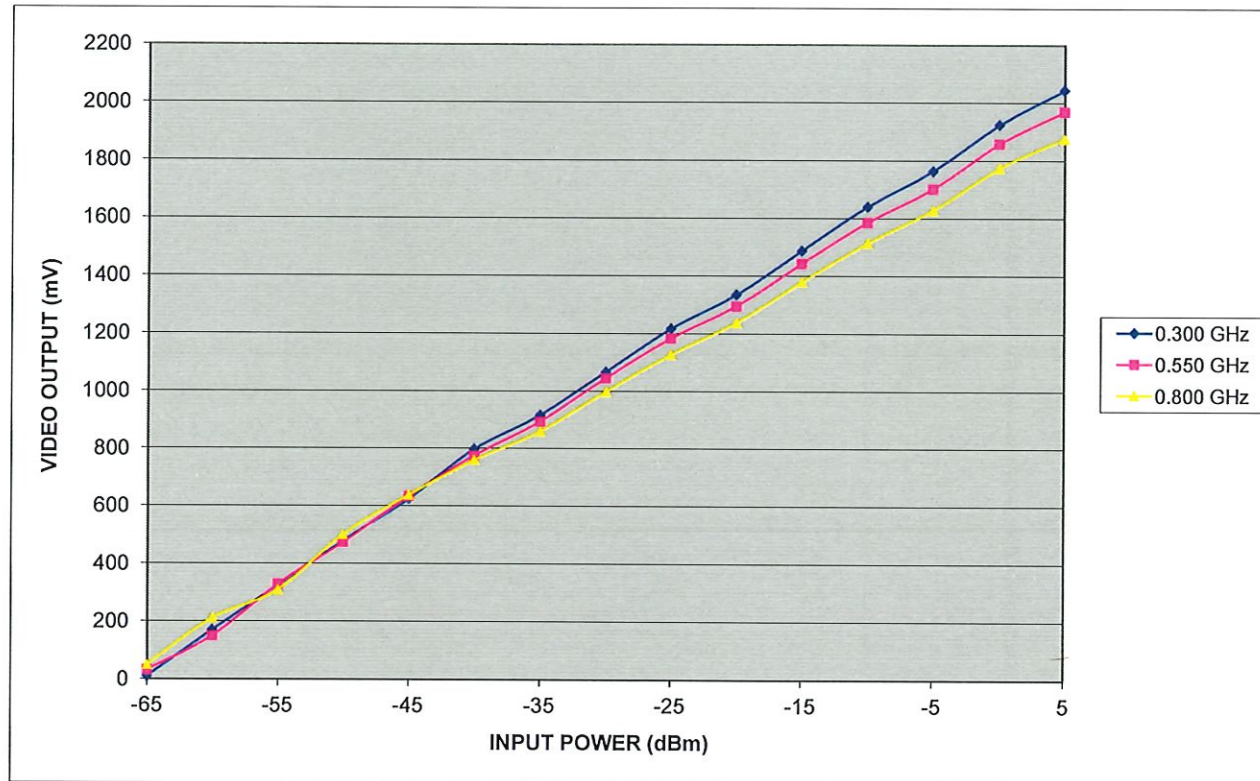
0.80 INTERCEPT (mV) 1767
 SLOPE (mV/dB) 25.9
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.49
 LINEARITY(-65 TO +5dBm) ± 1.49
 FREQUENCY FLATNESS ± 3.34

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.69 V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
10	170	323	478	624	797	916	1066	1216	1334	1486	1639	1763	1923	2042		Measured Value (mV)
-29	-14	-6	5	6	34	8	14	19	-8	-1	8	-14	1	-24		Error (mV)
-15.44	-15.46	-15.61	-15.75	-15.78	-15.83	-15.85	-15.83	-15.85	-15.88	-15.90	-15.90	-15.91	-15.91	-15.91		Measured Value (mV)
31	149	326	472	632	774	892	1044	1182	1294	1442	1585	1701	1857	1988		Measured Value (mV)
-20	-41	-2	5	26	28	8	21	20	-7	2	6	-17	0	-28		Error (mV)
-15.41	-15.46	-15.55	-15.65	-15.80	-15.79	-15.72	-15.75	-15.80	-15.83	-15.83	-15.83	-15.83	-15.83	-15.85		Measured Value (mV)
49	210	307	500	637	758	858	997	1126	1236	1378	1513	1627	1774	1875		Measured Value (mV)
-34	-2	-35	28	36	27	-2	7	7	-13	0	5	-10	7	-21		Error (mV)
-15.42	-15.47	-15.67	-15.81	-15.80	-15.83	-15.79	-15.76	-15.78	-15.78	-15.76	-15.76	-15.76	-15.76	-15.79	-15.87	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.41 dBm
 LIMITED IF OUTPUT MIN -15.91 dBm
 LIMITED IF FLATNESS ± 0.25 dBm