

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4304
 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) 1545
 SLOPE (mV/dB) 27.77
 LIMITED IF OUTPUT (dBm)

-243	-125	11	164	287	428	575	700	852	986	1120	1277	1408	1561	1675	Measured Value (mV)
17	-4	-6	7	-9	-6	2	-12	1	-3	-9	10	2	16	-8	Error (mV)
-16.70	-16.31	-16.19	-16.11	-16.06	-16.02	-16.00	-15.99	-16.98	-15.98	-15.99	-15.99	-16.00	-16.00	-16.01	Measured Value (mV)

0.55 INTERCEPT (mV) 1483
 SLOPE (mV/dB) 26.37
 LIMITED IF OUTPUT (dBm)

-210	-102	26	166	285	423	559	679	825	951	1079	1230	1353	1498	1608	Measured Value (mV)
22	-2	-6	2	-10	-5	0	-13	2	-4	-8	11	2	16	-6	Error (mV)
-16.58	-16.32	-16.18	-16.08	-16.01	-15.98	-16.01	-16.03	-16.03	-16.04	-16.05	-16.05	-16.04	-16.05	-16.08	Measured Value (mV)

0.80 INTERCEPT (mV) 1385
 SLOPE (mV/dB) 24.59
 LIMITED IF OUTPUT (dBm)

-186	-82	31	155	260	387	516	630	767	886	1007	1149	1266	1404	1510	Measured Value (mV)
28	9	-1	1	-18	-13	-7	-17	-3	-7	-8	10	5	20	2	Error (mV)
-16.46	-16.23	-16.15	-16.11	-16.07	-16.05	-16.06	-16.08	-16.09	-16.10	-16.10	-16.10	-16.10	-16.11	-16.15	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.81
 LINEARITY(-65 TO +5dBm) ± 1.13
 FREQUENCY FLATNESS ± 3.32

TSS 25C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.39V

INPUT VSWR
 2:1 MAX @ 25C 1.2:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.44:1

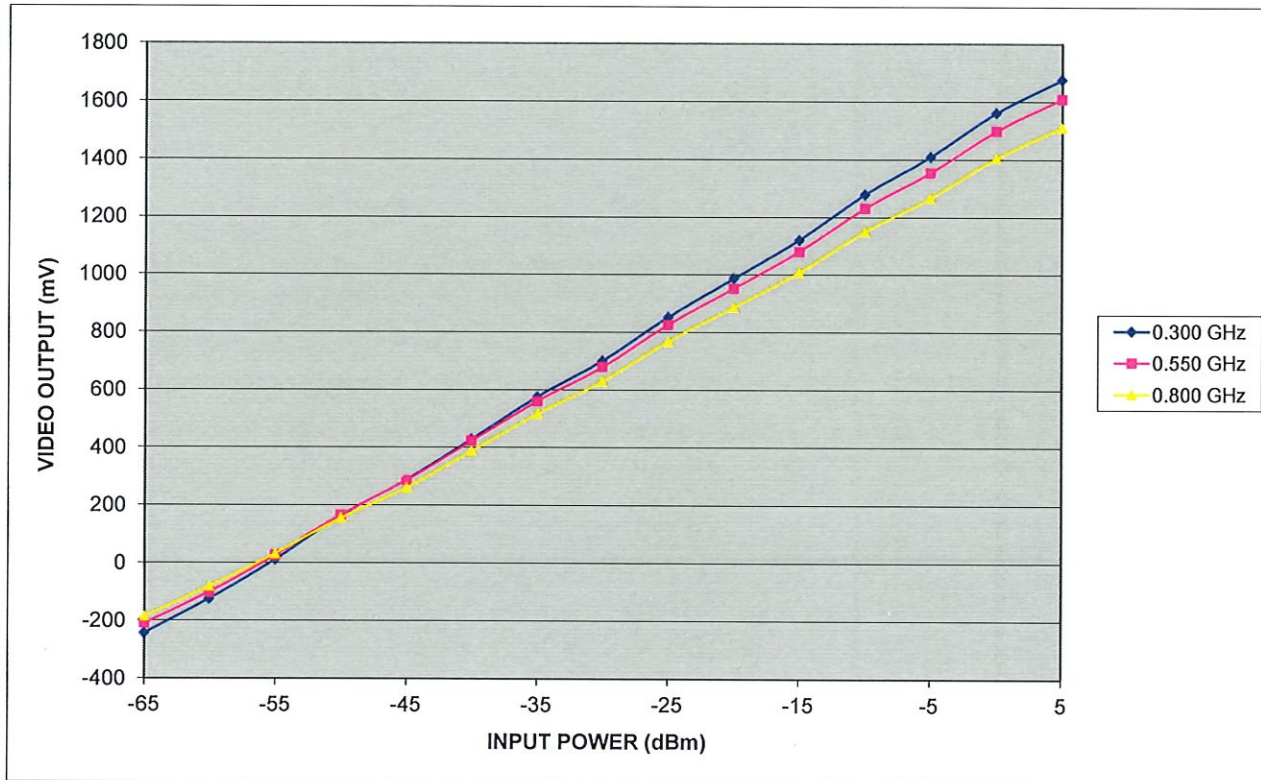
VIDEO RISE TIME
 25 nS MAX @ 25C 18 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 44 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 14 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -15.98 dBm
 LIMITED IF OUTPUT MIN -16.70 dBm
 LIMITED IF FLATNESS ± 0.36 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4304
 TESTED BY: H. HAHN
 DATE: 5/AUG/2008



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Frequency

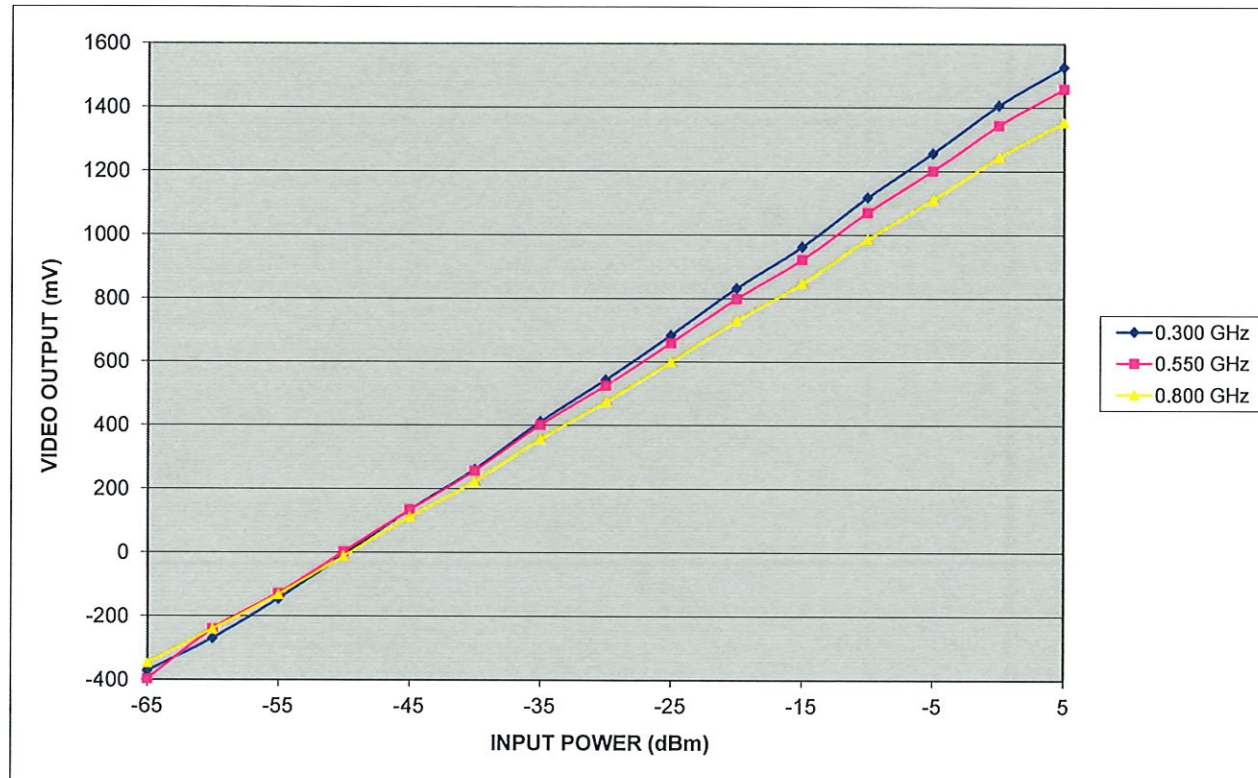
0.30 INTERCEPT (mV) 1386
 SLOPE (mV/dB) 27.68
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1329
 SLOPE (mV/dB) 26.53
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1225
 SLOPE (mV/dB) 24.62
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 1.49
 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)	-372	-269	-146	-8	133	260	412	543	684	831	962	1117	1256	1406	1526	Measured Value (mV)
0.30 Error (mV)	41	5	-10	-10	-7	-19	-6	-12	-10	-1	-9	8	8	20	2	Error (mV)
0.30 Limited If Output (dBm)	-17.05	-16.37	-16.07	-16.94	-15.85	-15.80	-15.76	-15.74	-15.73	-15.73	-15.73	-15.74	-15.74	-15.74	-15.73	Measured Value (mV)
0.55 Measured Value (mV)	-398	-241	-130	2	133	256	401	524	659	798	921	1070	1201	1343	1458	Measured Value (mV)
0.55 Error (mV)	-3	21	0	-1	-2	-11	0	-9	-7	0	-10	6	5	14	-3	Error (mV)
0.55 Limited If Output (dBm)	-16.80	-16.32	-16.07	-15.93	-15.84	-15.79	-15.78	-15.79	-15.80	-15.81	-15.81	-15.82	-15.82	-15.83	-15.85	Measured Value (mV)
0.80 Measured Value (mV)	-347	-241	-133	-12	111	222	356	473	599	729	846	985	1109	1243	1352	Measured Value (mV)
0.80 Error (mV)	28	11	-4	-6	-6	-18	-7	-13	-10	-3	-9	7	8	18	4	Error (mV)
0.80 Limited If Output (dBm)	-16.81	-16.26	-16.03	-15.92	-15.87	-15.86	-15.87	-15.88	-15.88	-15.89	-15.89	-15.89	-15.90	-15.92	-15.96	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.73 dBm
 LIMITED IF OUTPUT MIN -17.05 dBm
 LIMITED IF FLATNESS ± 0.66 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4304
 TESTED BY: H. HAHN
 DATE: 4/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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Frequency

0.30 INTERCEPT (mV) 1367
 SLOPE (mV/dB) 27.75
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1305
 SLOPE (mV/dB) 26.29
 LIMITED IF OUTPUT (dBm)

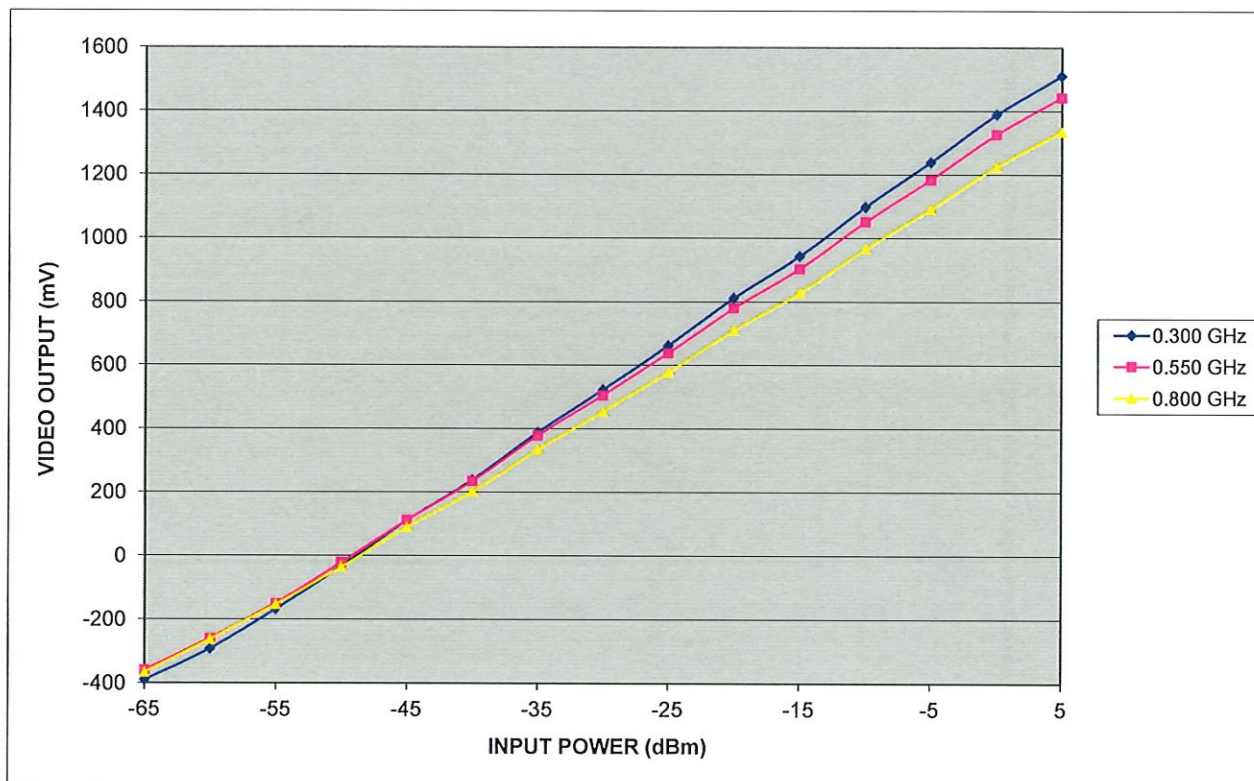
0.80 INTERCEPT (mV) 1205
 SLOPE (mV/dB) 24.67
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.67
 FREQUENCY FLATNESS ± 3.50

TSS 95C
 -65dBm MAX -68 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.31V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-391	-292	-169	-33	111	237	388	523	662	811	942	1097	1238	1388	1509	Measured Value (mV)
0.30 Error (mV)	46	5	-10	-13	-8	-20	-8	-12	-12	-1	-9	7	9	21	3	Error (mV)
0.30 Limited If Output (dBm)	-17.22	-16.47	-16.14	-15.98	-15.89	-15.83	-15.79	-15.78	-15.77	-15.77	-15.77	-15.77	-15.77	-15.77	-15.77	Measured Value (mV)
0.55 Measured Value (mV)	-360	-262	-151	-22	112	234	378	504	638	778	902	1050	1183	1325	1441	Measured Value (mV)
0.55 Error (mV)	44	10	-11	-13	-11	-20	-7	-12	-11	-1	-9	8	9	19	5	Error (mV)
0.55 Limited If Output (dBm)	-16.92	-16.40	-16.13	-15.98	-15.88	-15.83	-15.82	-15.82	-15.83	-15.84	-15.84	-15.85	-15.85	-15.86	-15.89	Measured Value (mV)
0.80 Measured Value (mV)	-367	-264	-154	-36	90	201	334	453	577	709	826	965	1090	1224	1334	Measured Value (mV)
0.80 Error (mV)	31	11	-3	-8	-6	-18	-8	-12	-12	-3	-9	6	8	18	5	Error (mV)
0.80 Limited If Output (dBm)	-16.95	-16.35	-16.09	-15.95	-15.90	-15.90	-15.90	-15.91	-15.92	-15.92	-15.92	-15.92	-15.93	-15.95	-15.99	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.77 dBm
 LIMITED IF OUTPUT MIN -17.22 dBm
 LIMITED IF FLATNESS ± 0.73 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4304
 TESTED BY: H. HAHN
 DATE: 5/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1840
 SLOPE (mV/dB) 29.05
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1776
 SLOPE (mV/dB) 27.68
 LIMITED IF OUTPUT (dBm)

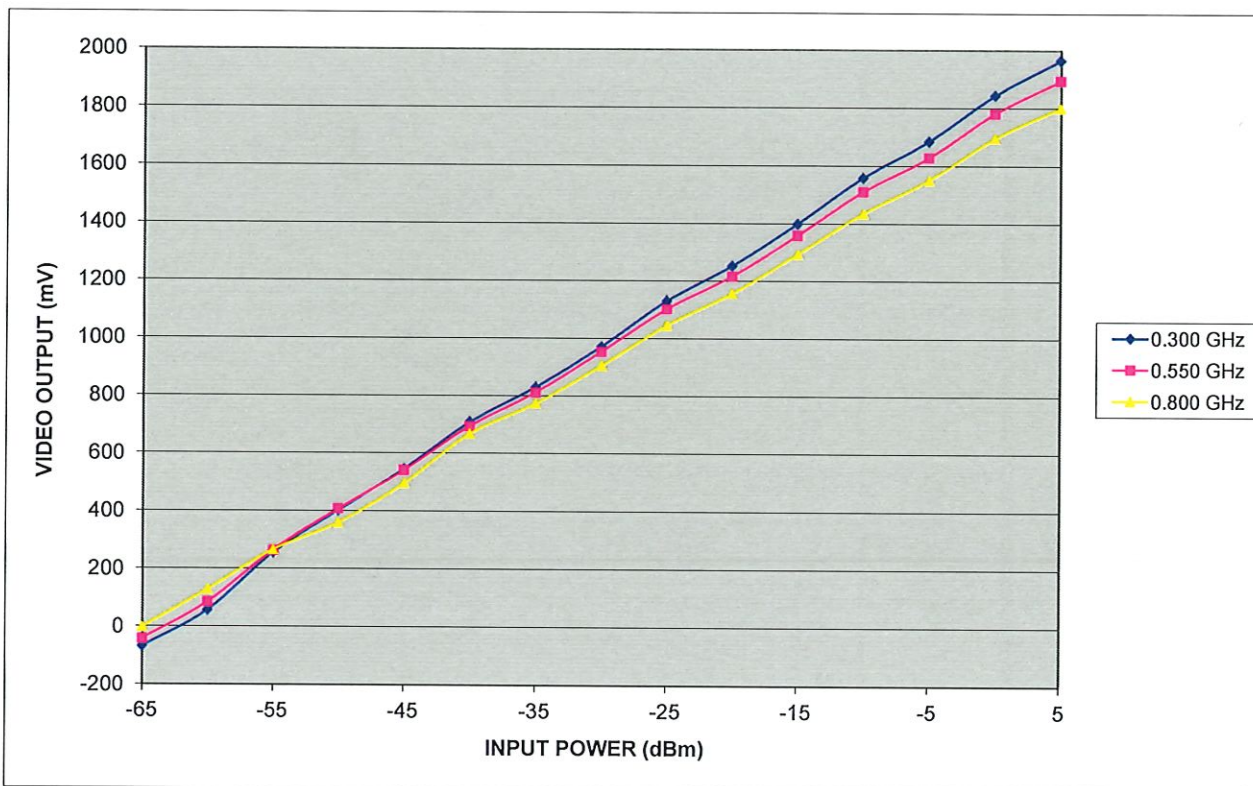
0.80 INTERCEPT (mV) 1683
 SLOPE (mV/dB) 25.98
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.39
 LINEARITY(-65 TO +5dBm) ± 1.39
 FREQUENCY FLATNESS ± 3.30

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.6 V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-69	56	254	402	544	708	830	971	1131	1252	1398	1558	1684	1843	1964	
0.30 Error (mV)	-21	-41	12	14	12	30	7	2	17	-7	-6	9	-11	3	-21	
0.30 Measured Value (mV)	-15.76	-15.71	-15.90	-16.99	-15.95	-16.98	-16.01	-15.99	-15.97	-16.98	-16.00	-16.00	-16.01	-16.02	-16.02	
0.55 Measured Value (mV)	-43	83	262	406	540	693	811	952	1102	1215	1358	1508	1626	1780	1893	
0.55 Error (mV)	-20	-32	8	14	10	24	3	6	18	-7	-3	9	-11	4	-21	
0.55 Measured Value (mV)	-15.69	-15.73	-15.78	-15.82	-15.92	-15.95	-15.89	-15.87	-16.90	-15.93	-15.94	-15.94	-15.94	-15.95	-15.96	
0.80 Measured Value (mV)	-4	127	264	358	495	666	773	904	1044	1155	1292	1433	1548	1694	1799	
0.80 Error (mV)	3	3	10	-25	-18	23	-1	1	11	-8	-1	10	-5	11	-14	
0.80 Measured Value (mV)	-15.68	-15.70	-15.74	-15.77	-15.76	-15.91	-15.91	-15.88	-16.90	-15.92	-15.90	-15.90	-15.90	-15.92	-15.99	



LIMITED IF OUTPUT MAX -15.68 dBm
 LIMITED IF OUTPUT MIN -16.02 dBm
 LIMITED IF FLATNESS ± 0.17 dBm