

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4354
 TESTED BY: H. HAHN
 DATE: 12/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1619
 SLOPE (mV/dB) 27.4
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1554
 SLOPE (mV/dB) 26.02
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1463
 SLOPE (mV/dB) 24.39
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.81
 LINEARITY(-65 TO +5dBm) ± 0.81
 FREQUENCY FLATNESS ± 3.22

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

-167	-37	117	259	382	534	662	790	943	1065	1202	1355	1479	1631	1741	Measured Value (mV)
-5	-12	5	10	-4	11	2	-7	9	-6	-6	10	-3	12	-15	Error (mV)
-16.28	-16.04	-15.98	-15.94	-15.91	-15.87	-15.86	-15.85	-15.85	-15.85	-15.86	-15.87	-15.87	-15.88	-15.88	Measured Value (mV)
-134	-16	126	256	376	523	644	767	913	1027	1168	1304	1420	1566	1671	Measured Value (mV)
3	-9	3	3	-7	9	0	-6	10	-7	-6	10	-3	13	-12	Error (mV)
-16.20	-16.06	-15.99	-15.91	-15.85	-15.87	-15.90	-15.90	-15.90	-15.92	-15.92	-15.92	-15.92	-15.92	-15.95	Measured Value (mV)
-107	5	129	236	345	486	602	720	858	966	1092	1229	1341	1480	1580	Measured Value (mV)
16	6	8	-8	-20	-1	-7	-11	5	-8	-5	10	0	18	-4	Error (mV)
-16.14	-16.02	-15.98	-15.97	-15.91	-15.85	-15.92	-15.94	-15.96	-15.97	-15.97	-15.96	-15.96	-15.97	-16.01	Measured Value (mV)

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.65V

INPUT VSWR 2:1 MAX @ 25C
 1.13:1

IF OUTPUT VSWR 2:1 MAX @ 25C
 1.31:1

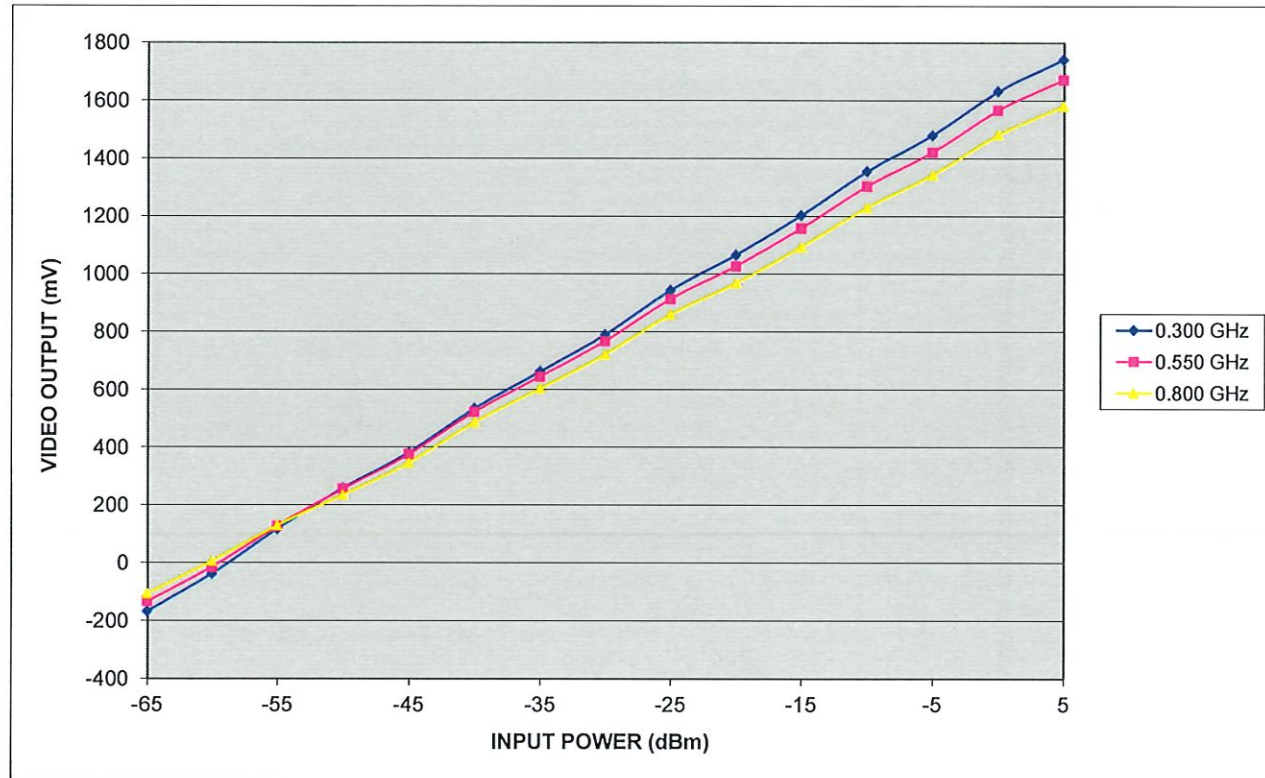
VIDEO RISE TIME 25 nS MAX @ 25C
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C
 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C
 12 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -15.85 dBm
 LIMITED IF OUTPUT MIN -16.28 dBm
 LIMITED IF FLATNESS ± 0.21 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
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Frequency

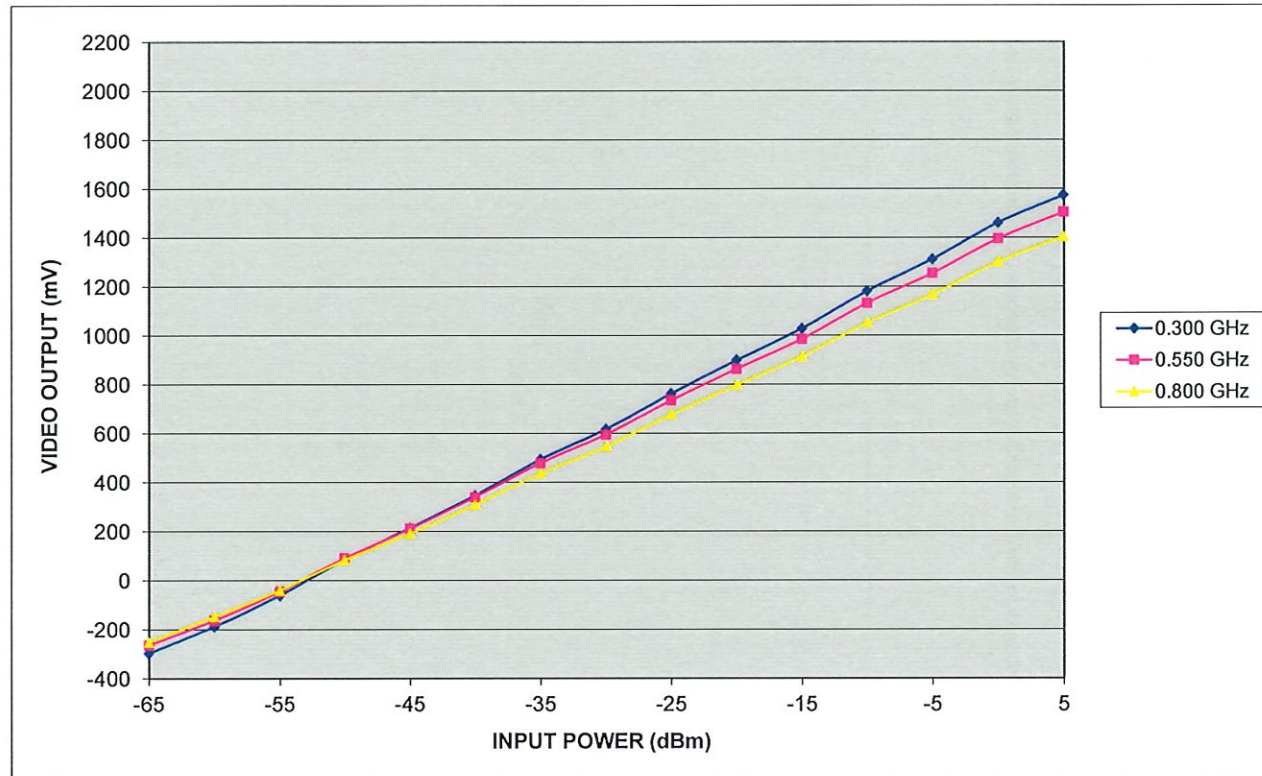
0.30 INTERCEPT (mV) 1443
 SLOPE (mV/dB) 27.17
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1379
 SLOPE (mV/dB) 25.72
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1282
 SLOPE (mV/dB) 23.99
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 1.13
 FREQUENCY FLATNESS ± 3.38

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-297	-188	-62	86	214	346	494	617	762	898	1027	1180	1311	1459	1573	Measured Value (mV)
0.30 Error (mV)	26	-1	-11	1	-7	-10	2	-11	-2	-1	-8	9	4	16	-6	Error (mV)
0.30 Limited IF Output (dBm)	-16.52	-15.99	-15.78	-15.67	-15.61	-15.56	-15.53	-15.52	-15.51	-15.51	-15.52	-15.53	-15.53	-15.53	-15.53	Limited IF Output (dBm)
0.55 Measured Value (mV)	-264	-164	-46	91	211	340	478	595	734	862	985	1131	1254	1395	1504	Measured Value (mV)
0.55 Error (mV)	29	1	-10	-2	-10	-10	0	-12	-1	-2	-8	10	4	16	-4	Error (mV)
0.55 Limited IF Output (dBm)	-16.34	-16.98	-15.79	-15.67	-15.59	-15.56	-15.56	-15.57	-15.58	-15.59	-15.60	-15.60	-15.60	-15.61	-15.63	Limited IF Output (dBm)
0.80 Measured Value (mV)	-252	-149	-42	84	191	308	437	546	677	798	914	1051	1167	1301	1404	Measured Value (mV)
0.80 Error (mV)	25	9	-5	1	-11	-15	-6	-16	-5	-5	-9	9	5	18	2	Error (mV)
0.80 Limited IF Output (dBm)	-16.23	-15.88	-15.74	-15.67	-15.64	-15.63	-15.63	-15.65	-15.66	-15.66	-15.66	-15.66	-15.67	-15.68	-15.71	Limited IF Output (dBm)



LIMITED IF OUTPUT MAX -15.51 dBm
 LIMITED IF OUTPUT MIN -16.52 dBm
 LIMITED IF FLATNESS ± 0.50 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4354
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Frequency

0.30 INTERCEPT (mV) 1422
 SLOPE (mV/dB) 27.18
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1358
 SLOPE (mV/dB) 25.74
 LIMITED IF OUTPUT (dBm)

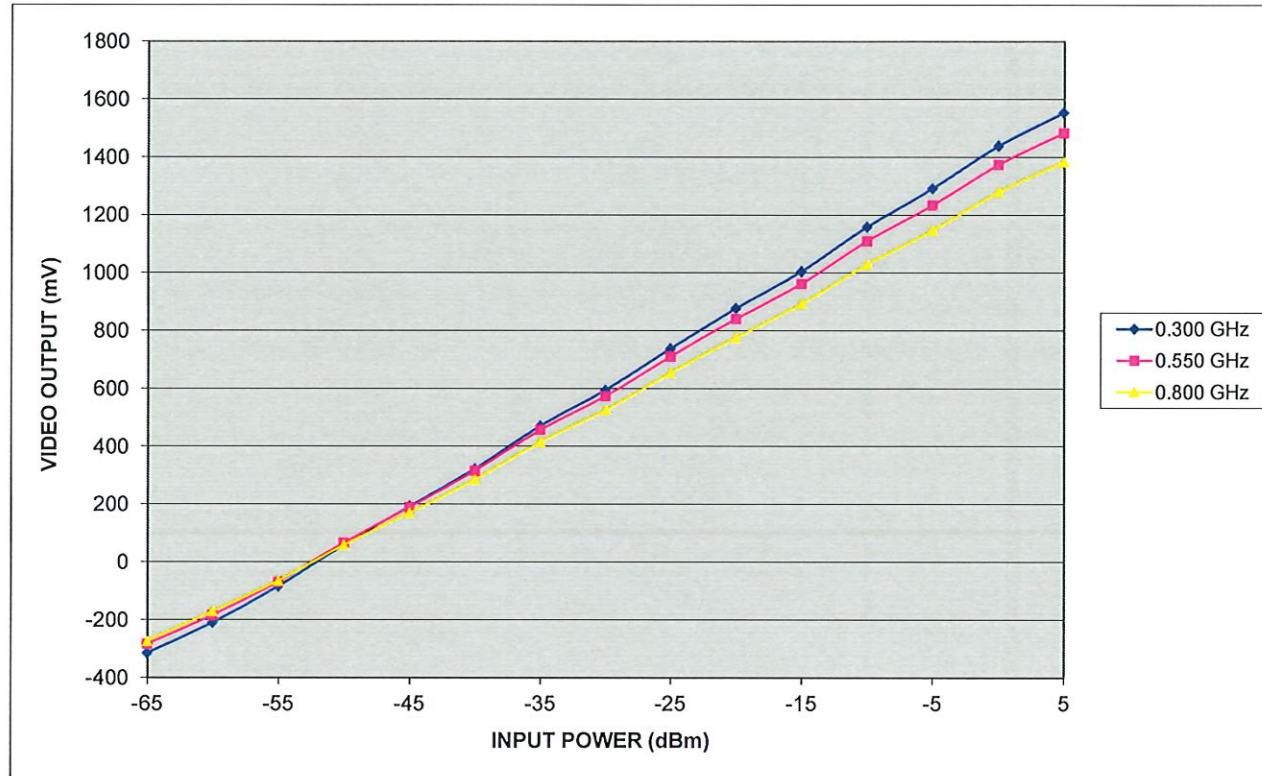
0.80 INTERCEPT (mV) 1261
 SLOPE (mV/dB) 24.03
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.23
 FREQUENCY FLATNESS ± 3.41

TSS 95C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.57V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-316	-210	-85	60	192	322	471	595	738	877	1005	1168	1291	1438	1553	Measured Value (mV)
0.30 Error (mV)	30	0	-11	-2	-7	-12	1	-11	-4	-1	-9	9	5	17	-4	Error (mV)
0.30 Measured Value (mV)	-16.71	-16.13	-15.89	-15.78	-15.71	-15.66	-15.63	-15.61	-15.61	-15.61	-15.62	-15.62	-15.63	-15.63	-15.63	Measured Value (mV)
0.55 Measured Value (mV)	-284	-184	-70	67	189	316	456	573	711	841	963	1110	1233	1374	1484	Measured Value (mV)
0.55 Error (mV)	32	3	-11	-4	-10	-12	0	-12	-3	-1	-9	10	5	17	-3	Error (mV)
0.55 Measured Value (mV)	-16.51	-16.11	-15.90	-15.78	-15.70	-15.66	-15.65	-15.67	-15.68	-15.68	-15.69	-15.69	-15.69	-15.70	-15.72	Measured Value (mV)
0.80 Measured Value (mV)	-275	-172	-66	59	170	284	414	524	653	776	891	1029	1146	1279	1383	Measured Value (mV)
0.80 Error (mV)	26	10	-5	0	-10	-15	-5	-15	-6	-4	-9	8	6	18	2	Error (mV)
0.80 Measured Value (mV)	-16.41	-16.02	-15.85	-15.77	-15.74	-15.73	-15.73	-15.74	-15.75	-15.76	-15.76	-15.76	-15.77	-15.78	-15.81	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.61 dBm
 LIMITED IF OUTPUT MIN -16.71 dBm
 LIMITED IF FLATNESS ± 0.55 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
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 TESTED BY: H. HAHN
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1911
 SLOPE (mV/dB) 28.68
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1846
 SLOPE (mV/dB) 27.37
 LIMITED IF OUTPUT (dBm)

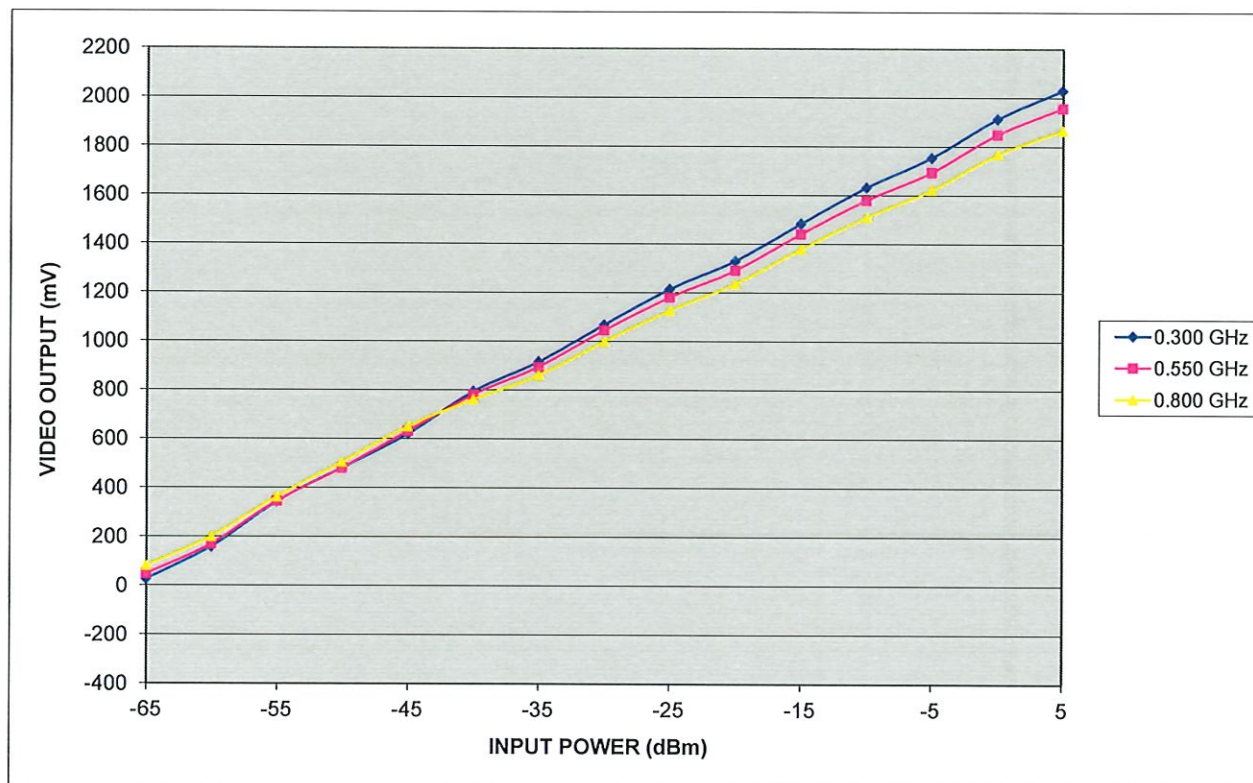
0.80 INTERCEPT (mV) 1758
 SLOPE (mV/dB) 25.45
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.47
 LINEARITY(-65 TO +5dBm) ± 1.47
 FREQUENCY FLATNESS ± 3.27

TSS -54C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.7V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	26	158	343	481	620	794	915	1068	1214	1330	1482	1631	1753	1912	2029	Measured Value (mV)
0.30 Error (mV)	-20	-32	9	4	0	31	8	17	20	-7	1	7	-15	1	-25	Error (mV)
0.30 Limited If Output (dBm)	-15.56	-15.51	-15.58	-15.66	-15.68	-15.74	-15.76	-15.77	-15.77	-15.79	-15.80	-15.80	-15.81	-15.81	-15.81	Limited If Output (dBm)
0.55 Measured Value (mV)	47	168	344	480	631	781	894	1044	1180	1291	1440	1579	1693	1849	1957	Measured Value (mV)
0.55 Error (mV)	-20	-36	3	2	16	30	6	19	18	-8	4	6	-16	2	-26	Error (mV)
0.55 Limited If Output (dBm)	-15.63	-15.60	-15.51	-15.58	-15.70	-15.70	-15.69	-15.69	-15.71	-15.74	-15.74	-15.74	-15.74	-15.74	-15.76	Limited If Output (dBm)
0.80 Measured Value (mV)	79	199	361	505	650	781	860	998	1126	1235	1378	1508	1621	1766	1865	Measured Value (mV)
0.80 Error (mV)	-25	-32	3	20	37	22	-7	4	4	-13	2	5	-9	9	-19	Error (mV)
0.80 Limited If Output (dBm)	-15.52	-15.60	-15.67	-15.71	-15.76	-15.79	-15.77	-15.74	-15.74	-15.74	-15.72	-15.72	-15.72	-15.76	-15.82	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -15.50 dBm
 LIMITED IF OUTPUT MIN -15.82 dBm
 LIMITED IF FLATNESS ± 0.16 dBm