

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4347
 TESTED BY: H. HAHN
 DATE: 12/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1602
 SLOPE (mV/dB) 27.48
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1539
 SLOPE (mV/dB) 26.1
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1446
 SLOPE (mV/dB) 24.42
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.81
 LINEARITY(-65 TO +5dBm) ± 0.86
 FREQUENCY FLATNESS ± 3.21

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.43V

INPUT VSWR 2:1 MAX @ 25C
 1.16:1

IF OUTPUT VSWR 2:1 MAX @ 25C
 1.29:1

VIDEO RISE TIME 25 nS MAX @ 25C
 20 nS

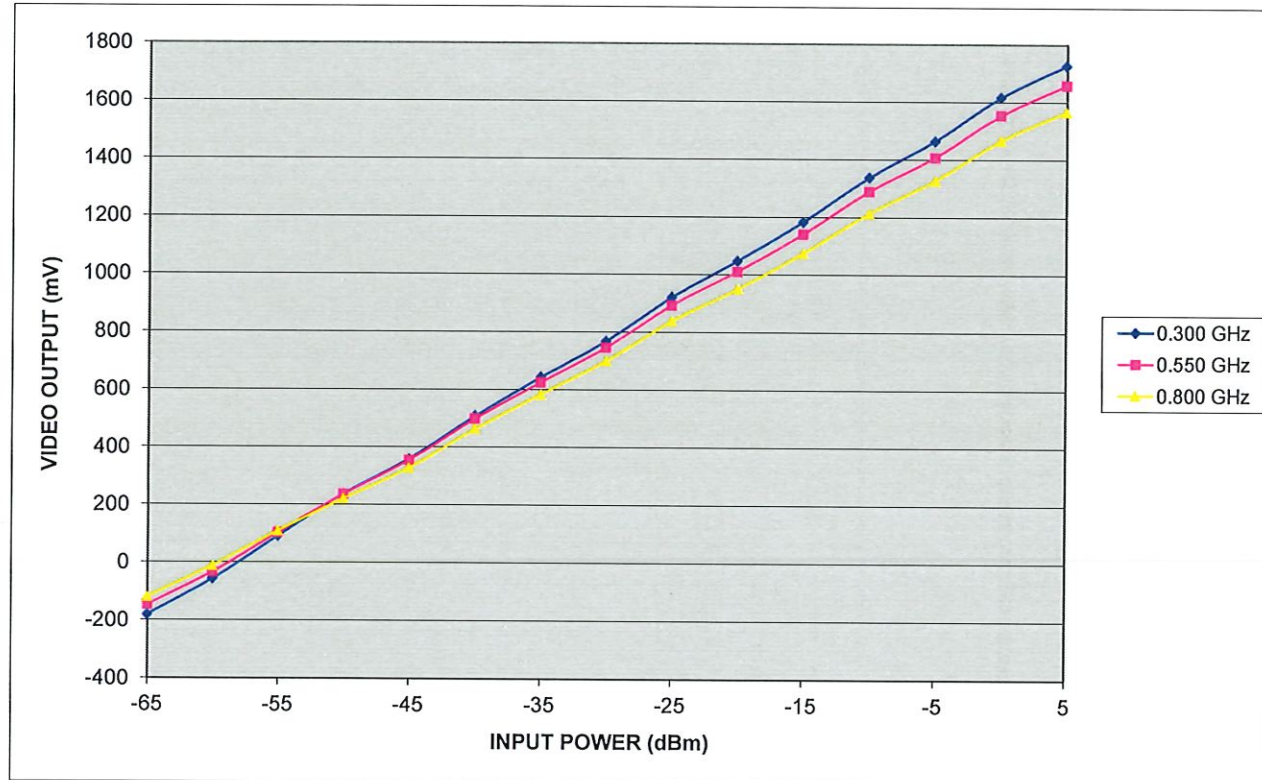
VIDEO FALL TIME 80 nS MAX @ 25C
 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C
 18 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-181	-57	91	238	359	508	643	769	922	1047	1183	1337	1464	1616	1726	
0.30 Error (mV)	3	-10	0	10	-7	5	3	-9	7	-5	-7	10	-1	14	-14	
0.30 Measured Value (mV)	-16.45	-16.19	-16.13	-16.08	-16.03	-15.99	-15.98	-15.97	-15.97	-15.97	-15.98	-15.99	-15.99	-15.99	-16.00	
0.55 Measured Value (mV)	-148	-34	103	237	355	499	626	747	894	1011	1141	1289	1408	1554	1658	
0.55 Error (mV)	10	-7	0	3	-9	4	0	-9	7	-6	-7	10	-1	15	-11	
0.55 Measured Value (mV)	-16.37	-16.21	-16.12	-16.04	-15.97	-15.97	-16.01	-16.02	-16.02	-16.04	-16.04	-16.04	-16.03	-16.05	-16.07	
0.80 Measured Value (mV)	-120	-12	109	222	328	463	583	700	838	950	1074	1213	1326	1466	1665	
0.80 Error (mV)	21	7	5	-4	-20	-6	-8	-14	3	-8	-6	11	2	20	-3	
0.80 Measured Value (mV)	-16.28	-16.15	-16.11	-16.09	-16.04	-15.98	-16.02	-16.05	-16.07	-16.08	-16.08	-16.07	-16.07	-16.09	-16.13	



LIMITED IF OUTPUT MAX -15.97 dBm
 LIMITED IF OUTPUT MIN -16.45 dBm
 LIMITED IF FLATNESS ± 0.24 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
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Frequency

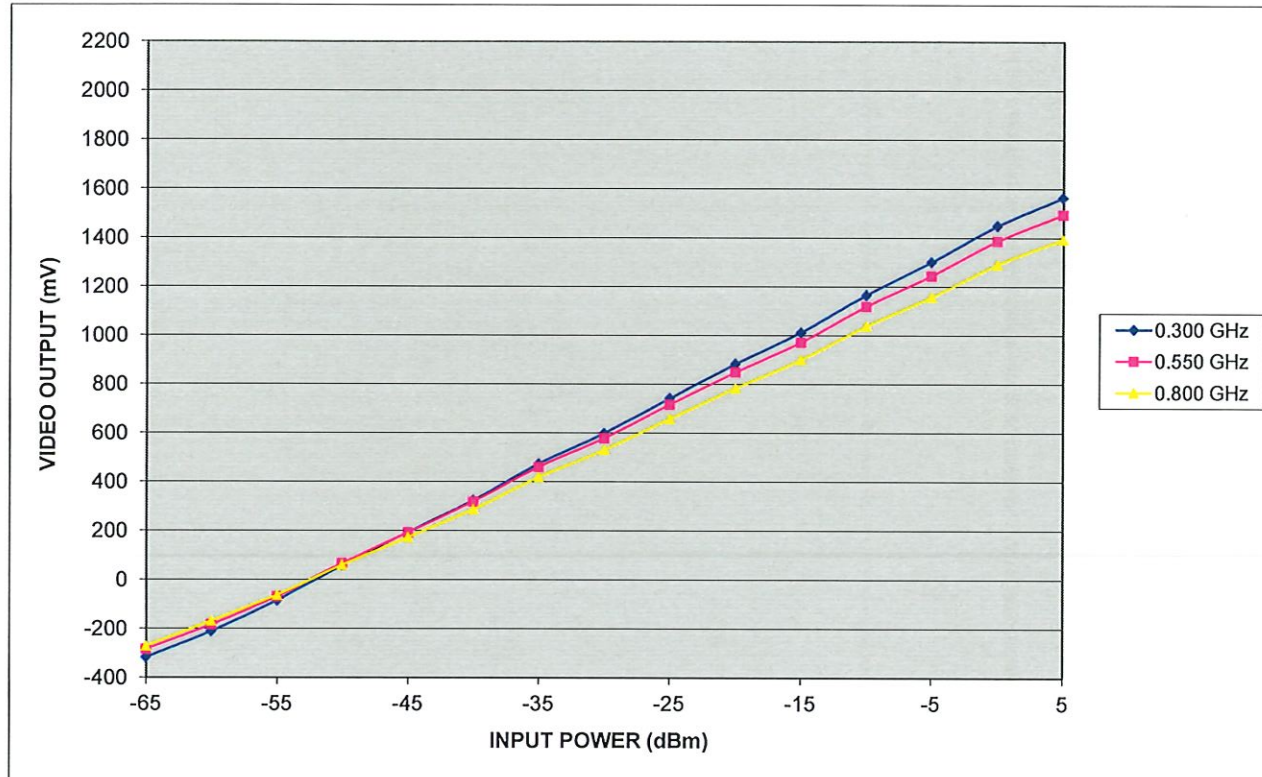
0.30 INTERCEPT (mV) 1430
 SLOPE (mV/dB) 27.36
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1368
 SLOPE (mV/dB) 25.93
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1270
 SLOPE (mV/dB) 24.17
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.81
 LINEARITY(-65 TO +5dBm) ± 1.28
 FREQUENCY FLATNESS ± 3.39

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-317	-211	-85	59	193	323	473	598	741	882	1012	1165	1299	1448	1563	Measured Value (mV)
0.30 Error (mV)	31	0	-11	-3	-6	-13	0	-11	-5	-1	-8	8	6	18	-4	Error (mV)
0.30 Limited IF Output (dBm)	-17.05	-16.45	-16.20	-16.08	-16.01	-15.96	-15.93	-15.91	-15.91	-15.91	-15.92	-15.92	-15.92	-15.92	-15.93	Measured Value (mV)
0.55 Measured Value (mV)	-284	-184	-69	67	192	318	460	578	716	848	971	1118	1244	1386	1495	Measured Value (mV)
0.55 Error (mV)	33	3	-11	-5	-10	-13	-1	-12	-4	-1	-8	9	5	18	-3	Error (mV)
0.55 Limited IF Output (dBm)	-16.84	-16.43	-16.21	-16.08	-16.00	-15.95	-15.95	-15.96	-15.97	-15.98	-15.99	-15.99	-15.99	-16.00	-16.03	Measured Value (mV)
0.80 Measured Value (mV)	-273	-169	-64	60	173	286	418	529	658	792	899	1037	1156	1290	1393	Measured Value (mV)
0.80 Error (mV)	28	11	-5	-2	-10	-17	-6	-16	-8	-4	-9	8	7	20	3	Error (mV)
0.80 Limited IF Output (dBm)	-16.71	-16.32	-16.15	-16.06	-16.03	-16.02	-16.03	-16.04	-16.04	-16.05	-16.05	-16.05	-16.06	-16.07	-16.11	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.91 dBm
 LIMITED IF OUTPUT MIN -17.05 dBm
 LIMITED IF FLATNESS ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
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Frequency

0.30 INTERCEPT (mV) 1409
 SLOPE (mV/dB) 27.38
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1347
 SLOPE (mV/dB) 25.95
 LIMITED IF OUTPUT (dBm)

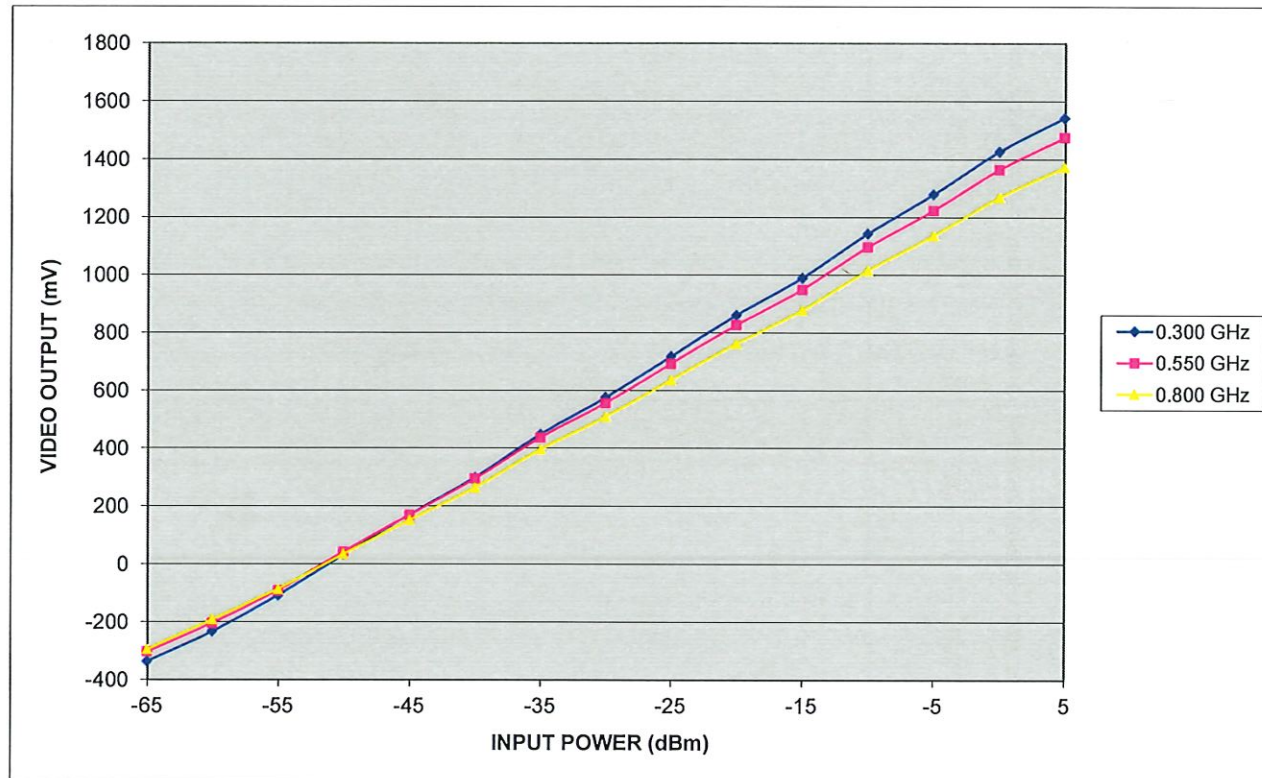
0.80 INTERCEPT (mV) 1248
 SLOPE (mV/dB) 24.2
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 1.38
 FREQUENCY FLATNESS ± 3.40

TSS 95C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.33V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-336	-233	-108	33	171	298	449	576	717	860	989	1143	1278	1427	1543	Measured Value (mV)
0.30 Error (mV)	35	1	-11	-7	-6	-15	-2	-11	-7	-1	-8	8	7	19	-3	Error (mV)
0.30 Limited If Output (dBm)	-17.28	-16.63	-16.35	-16.22	-16.14	-16.08	-16.05	-16.04	-16.03	-16.03	-16.03	-16.04	-16.04	-16.04	-16.04	Limited If Output (dBm)
0.55 Measured Value (mV)	-304	-205	-92	42	170	295	437	557	693	827	949	1096	1224	1365	1475	Measured Value (mV)
0.55 Error (mV)	36	5	-12	-7	-10	-15	-2	-12	-6	-1	-8	9	6	18	-2	Error (mV)
0.55 Limited If Output (dBm)	-17.04	-16.59	-16.35	-16.22	-16.13	-16.08	-16.07	-16.08	-16.09	-16.10	-16.11	-16.11	-16.11	-16.12	-16.14	Limited If Output (dBm)
0.80 Measured Value (mV)	-296	-192	-87	35	151	263	395	507	635	761	877	1014	1135	1268	1372	Measured Value (mV)
0.80 Error (mV)	29	11	-5	-4	-8	-17	-7	-15	-9	-4	-9	8	7	19	3	Error (mV)
0.80 Limited If Output (dBm)	-16.93	-16.48	-16.29	-16.19	-16.15	-16.15	-16.15	-16.16	-16.17	-16.17	-16.17	-16.17	-16.18	-16.19	-16.23	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -16.03 dBm
 LIMITED IF OUTPUT MIN -17.28 dBm
 LIMITED IF FLATNESS ± 0.63 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) 1891
 SLOPE (mV/dB) 28.67
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1828
 SLOPE (mV/dB) 27.37
 LIMITED IF OUTPUT (dBm)

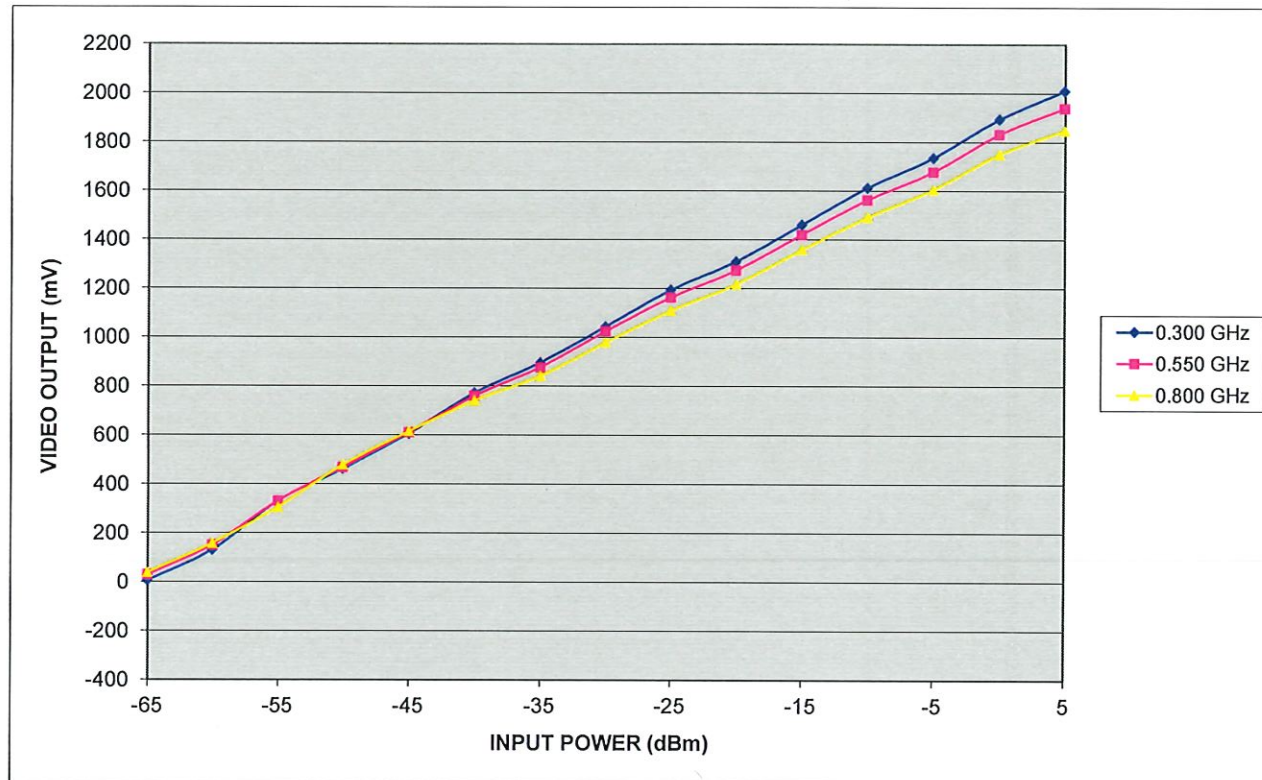
0.80 INTERCEPT (mV) 1744
 SLOPE (mV/dB) 25.87
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.38
 LINEARITY(-65 TO +5dBm) ± 1.38
 FREQUENCY FLATNESS ± 3.24

TSS -54C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.63V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	6	131	330	463	606	773	895	1043	1193	1310	1460	1612	1734	1893	2009	Measured Value (mV)
0.30 Error (mV)	-21	-39	16	6	6	29	8	12	19	-7	-1	8	-13	2	-25	Error (mV)
0.30 Limited If Output (dBm)	-15.77	-15.75	-15.85	-15.94	-15.99	-16.01	-16.07	-16.03	-16.04	-16.06	-16.07	-16.07	-16.08	-16.08	-16.08	Limited If Output (dBm)
0.55 Measured Value (mV)	28	149	330	468	611	760	876	1024	1162	1273	1420	1561	1677	1831	1938	Measured Value (mV)
0.55 Error (mV)	-21	-37	7	8	14	26	6	16	18	-7	2	7	-15	3	-27	Error (mV)
0.55 Limited If Output (dBm)	-15.73	-15.73	-15.75	-15.83	-15.94	-15.90	-15.94	-15.96	-15.99	-16.01	-16.01	-16.00	-16.00	-16.00	-16.02	Limited If Output (dBm)
0.80 Measured Value (mV)	38	156	304	478	614	740	841	978	1108	1216	1367	1491	1604	1749	1847	Measured Value (mV)
0.80 Error (mV)	-25	-36	-17	27	34	31	2	10	11	-11	1	5	-11	5	-27	Error (mV)
0.80 Limited If Output (dBm)	-15.72	-15.73	-15.78	-15.97	-15.98	-16.01	-15.99	-15.96	-15.97	-15.98	-15.96	-15.96	-15.97	-16.00	-16.07	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -15.72 dBm
 LIMITED IF OUTPUT MIN -16.08 dBm
 LIMITED IF FLATNESS ± 0.18 dBm