

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4344
 TESTED BY: H. HAHN
 DATE: 11/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1581
 SLOPE (mV/dB) 27.63
 LIMITED IF OUTPUT (dBm)
 0.55 INTERCEPT (mV) 1513
 SLOPE (mV/dB) 26.18
 LIMITED IF OUTPUT (dBm)
 0.80 INTERCEPT (mV) 1415
 SLOPE (mV/dB) 24.47
 LIMITED IF OUTPUT (dBm)
 LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 0.90
 FREQUENCY FLATNESS ± 3.46

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.41V

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

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

VIDEO RISE TIME
 25 nS MAX @ 25C 20 nS

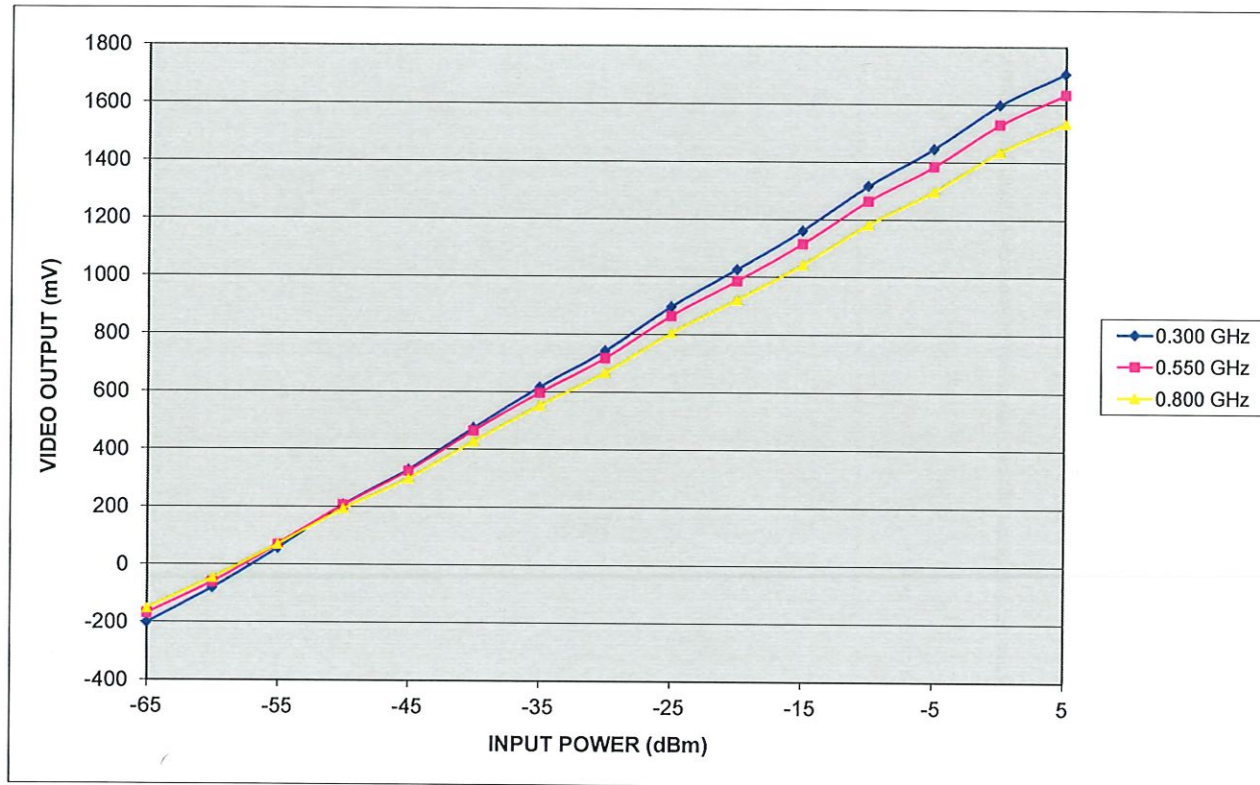
VIDEO FALL TIME
 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 14 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)	-202	-81	56	207	329	475	617	743	896	1026	1161	1316	1444	1597	1706	Measured Value (mV)
0.30 Error (mV)	12	-5	-5	7	-9	-2	2	-10	5	-3	-6	11	1	16	-13	Error (mV)
0.30 Limited IF Output (dBm)	-16.79	-16.46	-16.35	-16.28	-16.23	-16.18	-16.17	-16.16	-16.16	-16.16	-16.17	-16.18	-16.18	-16.18	-16.19	Limited IF Output (dBm)
0.55 Measured Value (mV)	-170	-62	68	206	324	465	597	717	864	986	1115	1263	1383	1529	1633	Measured Value (mV)
0.55 Error (mV)	18	-4	-5	2	-11	-1	0	-11	6	-4	-6	12	1	16	-11	Error (mV)
0.55 Limited IF Output (dBm)	-16.69	-16.47	-16.34	-16.24	-16.16	-16.15	-16.18	-16.19	-16.20	-16.21	-16.21	-16.21	-16.21	-16.22	-16.24	Limited IF Output (dBm)
0.80 Measured Value (mV)	-154	-48	69	192	298	427	552	666	804	919	1042	1181	1295	1434	1533	Measured Value (mV)
0.80 Error (mV)	22	6	0	1	-16	-9	-6	-15	1	-6	-6	11	3	19	-4	Error (mV)
0.80 Limited IF Output (dBm)	-16.59	-16.38	-16.28	-16.24	-16.21	-16.19	-16.20	-16.22	-16.24	-16.25	-16.25	-16.24	-16.25	-16.26	-16.29	Limited IF Output (dBm)



LIMITED IF OUTPUT MAX -16.15 dBm
 LIMITED IF OUTPUT MIN -16.79 dBm
 LIMITED IF FLATNESS ± 0.32 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4344
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Frequency

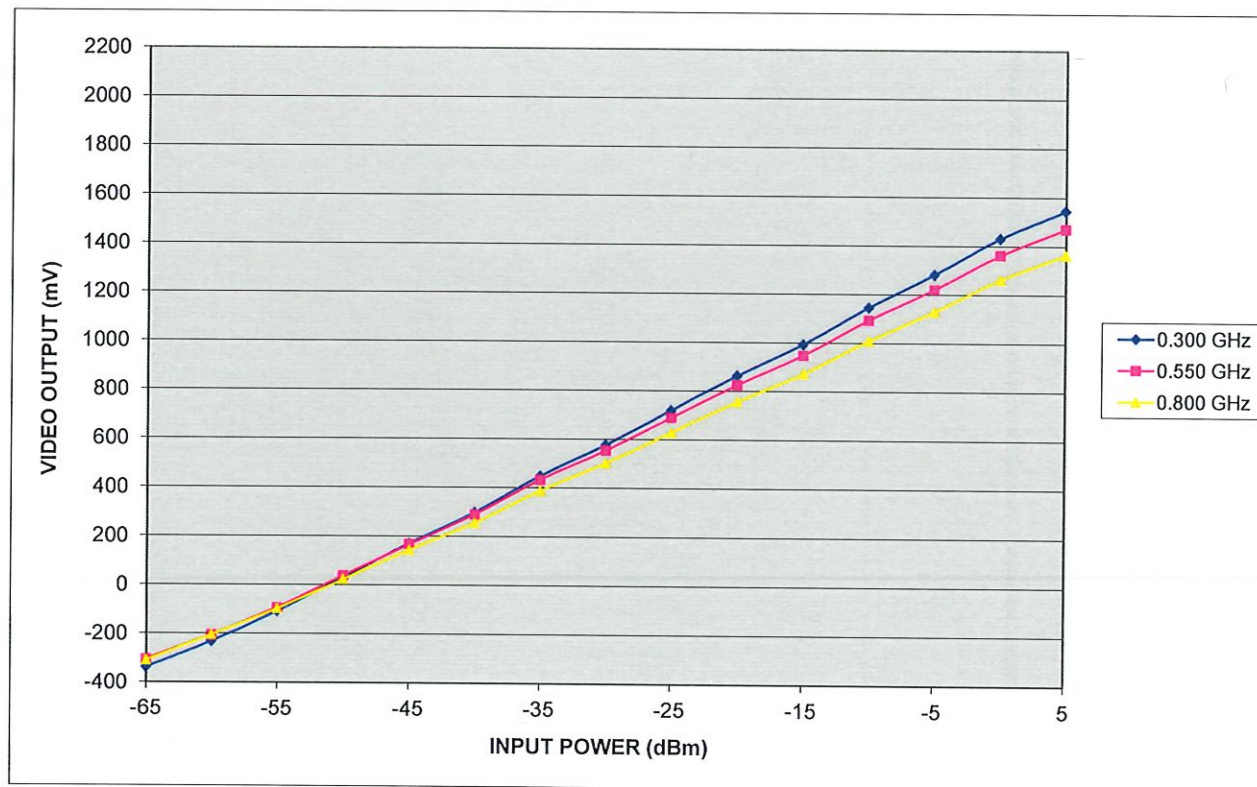
0.30 INTERCEPT (mV) 1412
 SLOPE (mV/dB) 27.47
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1344
 SLOPE (mV/dB) 25.96
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1243
 SLOPE (mV/dB) 24.32
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.37
 FREQUENCY FLATNESS ± 3.60

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-339	-234	-110	31	170	298	449	578	720	863	993	1147	1282	1431	1544	
0.30 Error (mV)	35	2	-11	-8	-6	-16	-2	-11	-6	0	-7	9	7	19	-5	
0.30 Measured Value (mV)	-17.09	-16.44	-16.16	-16.03	-15.94	-15.88	-15.85	-15.83	-15.83	-15.83	-15.84	-15.84	-15.84	-15.85	-15.85	
0.55 Measured Value (mV)	-308	-207	-95	37	166	290	433	554	690	825	947	1094	1221	1363	1470	
0.55 Error (mV)	35	6	-12	-9	-10	-16	-3	-11	-5	0	-7	10	6	18	-4	
0.55 Measured Value (mV)	-16.86	-16.40	-16.16	-16.01	-15.92	-15.87	-15.87	-15.88	-15.88	-15.89	-15.90	-15.90	-15.90	-15.91	-15.94	
0.80 Measured Value (mV)	-311	-206	-99	22	142	254	387	501	628	755	871	1008	1129	1261	1364	
0.80 Error (mV)	26	9	-5	-5	-7	-16	-5	-12	-7	-2	-7	8	7	18	-1	
0.80 Measured Value (mV)	-16.84	-16.33	-16.10	-15.97	-15.92	-15.92	-15.93	-15.94	-15.94	-15.95	-15.95	-15.95	-15.95	-15.97	-15.99	



LIMITED IF OUTPUT MAX -15.83 dBm
 LIMITED IF OUTPUT MIN -17.09 dBm
 LIMITED IF FLATNESS ± 0.63 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4344
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 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1386
 SLOPE (mV/dB) 27.47
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1318
 SLOPE (mV/dB) 25.96
 LIMITED IF OUTPUT (dBm)

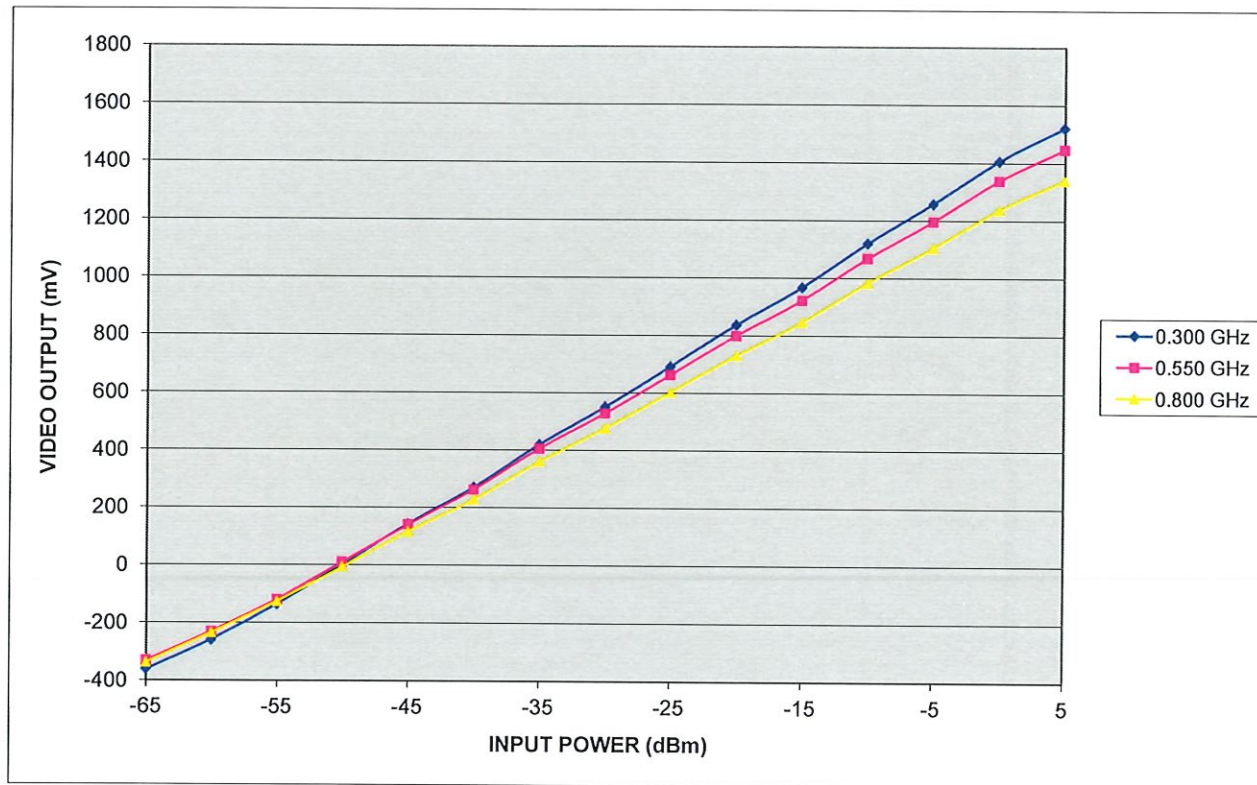
0.80 INTERCEPT (mV) 1217
 SLOPE (mV/dB) 24.35
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.73
 LINEARITY(-65 TO +5dBm) ± 1.46
 FREQUENCY FLATNESS ± 3.62

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-361	-269	-136	1	143	270	420	551	692	837	967	1120	1256	1405	1520	
0.30 Error (mV)	39	3	-11	-11	-7	-17	-4	-11	-8	0	-7	9	8	19	-4	
0.30 Measured Value (mV)	-17.35	-16.63	-16.32	-16.17	-16.08	-16.02	-15.98	-15.97	-15.96	-15.96	-15.97	-15.97	-15.98	-15.97	-15.98	
0.55 Measured Value (mV)	-331	-232	-121	9	140	262	405	528	662	799	921	1068	1196	1337	1446	
0.55 Error (mV)	38	8	-11	-11	-10	-17	-4	-11	-7	0	-7	9	7	19	-2	
0.55 Measured Value (mV)	-17.09	-16.58	-16.32	-16.16	-16.06	-16.01	-16.00	-16.01	-16.02	-16.03	-16.03	-16.03	-16.04	-16.05	-16.07	
0.80 Measured Value (mV)	-339	-236	-127	-7	116	227	360	475	600	729	845	981	1103	1235	1338	
0.80 Error (mV)	27	8	-5	-7	-6	-16	-5	-11	-8	-2	-7	8	7	18	-1	
0.80 Measured Value (mV)	-17.11	-16.53	-16.26	-16.12	-16.06	-16.06	-16.07	-16.08	-16.08	-16.08	-16.08	-16.08	-16.09	-16.10	-16.13	

TSS 95C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.30V



LIMITED IF OUTPUT MAX -15.96 dBm
 LIMITED IF OUTPUT MIN -17.35 dBm
 LIMITED IF FLATNESS ± 0.69 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4344
 TESTED BY: H. HAHN
 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1867
 SLOPE (mV/dB) 28.76
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1789
 SLOPE (mV/dB) 27.36
 LIMITED IF OUTPUT (dBm)

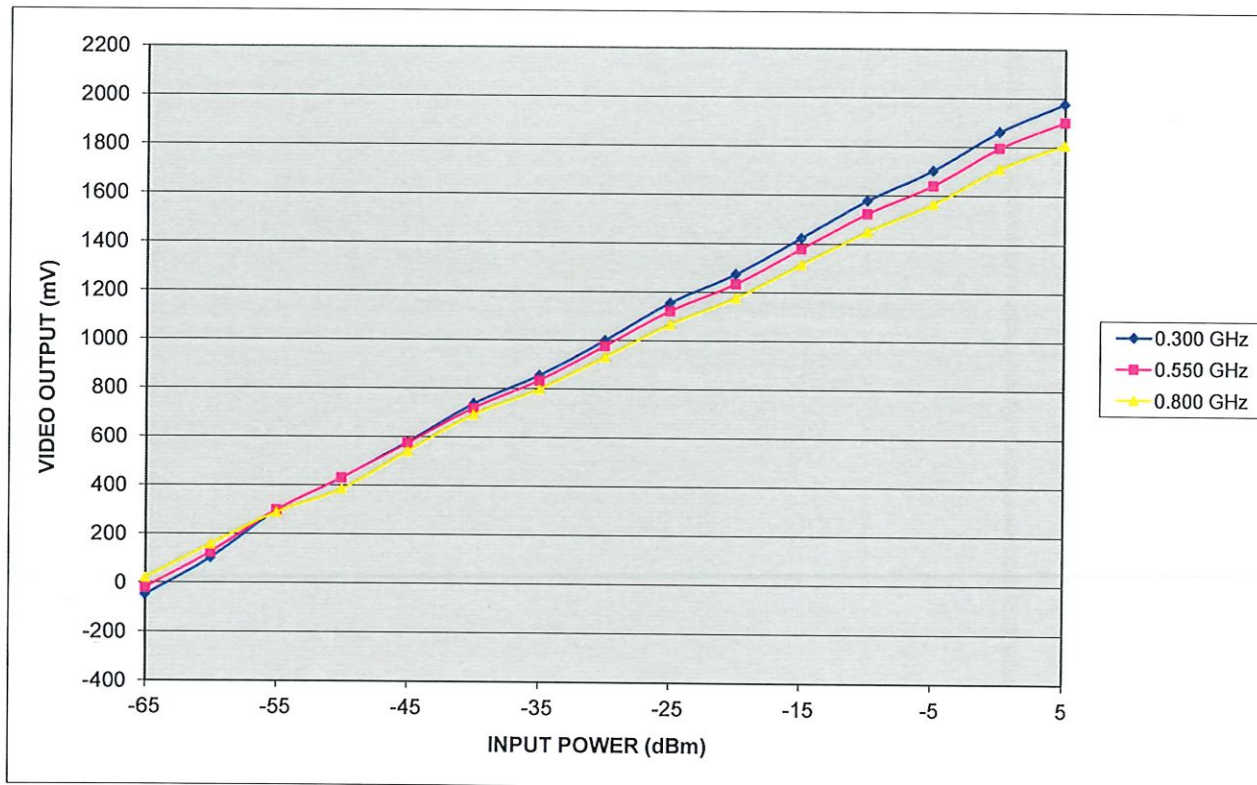
0.80 INTERCEPT (mV) 1697
 SLOPE (mV/dB) 25.72
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.07
 LINEARITY(-65 TO +5dBm) ± 1.25
 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)	-48	102	295	429	578	737	855	1000	1155	1274	1423	1577	1702	1861	1976	
0.30 Error (mV)	-36	-29	19	10	15	30	4	5	17	-8	-3	8	-11	4	-25	
0.30 Limited IF Output (dBm)	-15.70	-15.75	-15.99	-16.04	-15.98	-16.00	-16.04	-16.02	-16.02	-16.04	-16.05	-16.06	-16.07	-16.07	-16.07	
0.55 Measured Value (mV)	-20	124	297	429	574	719	833	976	1121	1233	1379	1524	1641	1795	1902	
0.55 Error (mV)	-31	-23	12	8	16	24	2	8	16	-9	0	8	-12	6	-24	
0.55 Limited IF Output (dBm)	-15.65	-15.73	-15.82	-15.85	-15.95	-15.96	-15.91	-15.91	-15.94	-15.97	-15.97	-15.96	-15.96	-15.97	-15.98	
0.80 Measured Value (mV)	19	157	287	383	539	691	796	929	1065	1174	1312	1448	1562	1709	1807	
0.80 Error (mV)	-5	3	5	-27	0	23	-1	4	11	-9	1	9	-6	12	-18	
0.80 Limited IF Output (dBm)	-15.64	-15.70	-15.73	-15.75	-15.74	-15.90	-15.89	-15.87	-15.90	-15.91	-15.90	-15.89	-15.89	-15.91	-15.97	

TSS -54C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.61V



LIMITED IF OUTPUT MAX -15.64 dBm
 LIMITED IF OUTPUT MIN -16.07 dBm
 LIMITED IF FLATNESS ± 0.21 dBm