

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4325  
 TESTED BY: H. HAHN  
 DATE: 9/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) 1565  
 SLOPE (mV/dB) 27.45  
 LIMITED IF OUTPUT (dBm)

-201	-83	51	197	317	462	603	728	881	1011	1145	1301	1430	1582	1694	Measured Value (mV)
19	-1	-4	5	-12	-5	-1	-13	2	-5	-8	11	3	18	-8	Error (mV)
-16.44	-16.18	-16.09	-16.02	-15.97	-15.93	-15.90	-15.90	-15.89	-15.89	-15.90	-15.91	-15.91	-15.90	-15.89	Measured Value (mV)

0.55 INTERCEPT (mV) 1501  
 SLOPE (mV/dB) 26.05  
 LIMITED IF OUTPUT (dBm)

-168	-62	65	197	313	454	586	707	863	975	1103	1252	1373	1519	1626	Measured Value (mV)
24	1	-3	-1	-15	-5	-3	-13	3	-5	-8	11	2	18	-6	Error (mV)
-16.36	-16.18	-16.08	-15.98	-15.90	-15.90	-15.93	-15.94	-15.95	-15.97	-15.97	-15.97	-15.97	-15.98	-16.00	Measured Value (mV)

0.80 INTERCEPT (mV) 1408  
 SLOPE (mV/dB) 24.71  
 LIMITED IF OUTPUT (dBm)

-183	-70	51	177	282	413	540	655	793	909	1031	1171	1287	1425	1527	Measured Value (mV)
15	4	1	4	-14	-7	-4	-12	3	-5	-7	10	2	16	-5	Error (mV)
-16.37	-16.14	-16.04	-16.00	-15.96	-15.92	-15.94	-15.97	-15.99	-16.00	-16.01	-16.00	-16.02	-16.04	-16.10	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.67  
 LINEARITY(-65 TO +5dBm) ± 0.93  
 FREQUENCY FLATNESS ± 3.34

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.06V

INPUT VSWR  
 2:1 MAX @ 25C 1.22:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.71:1

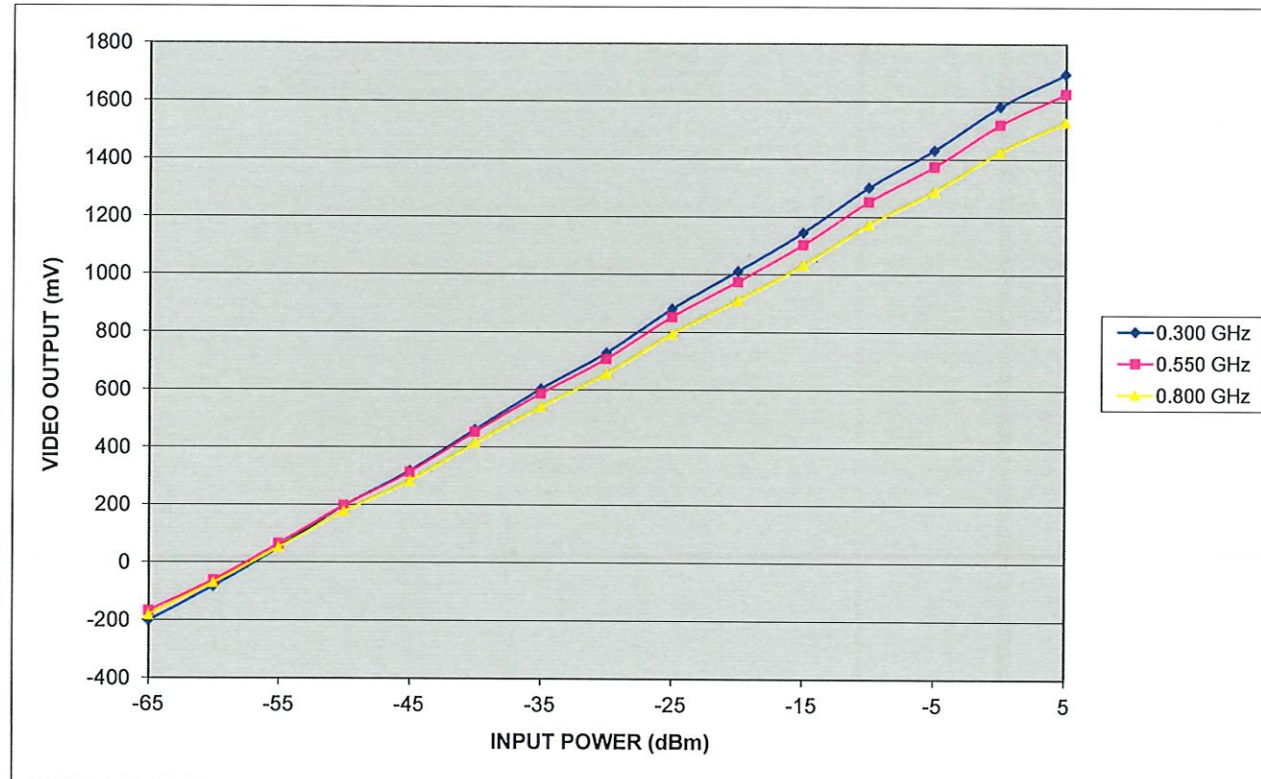
VIDEO RISE TIME  
 25 nS MAX @ 25C 20 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 44 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 117 mA



LIMITED IF OUTPUT MAX -15.89 dBm  
 LIMITED IF OUTPUT MIN -16.44 dBm  
 LIMITED IF FLATNESS ± 0.28 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4325  
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 DATE: 8/AUG/2008



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Frequency

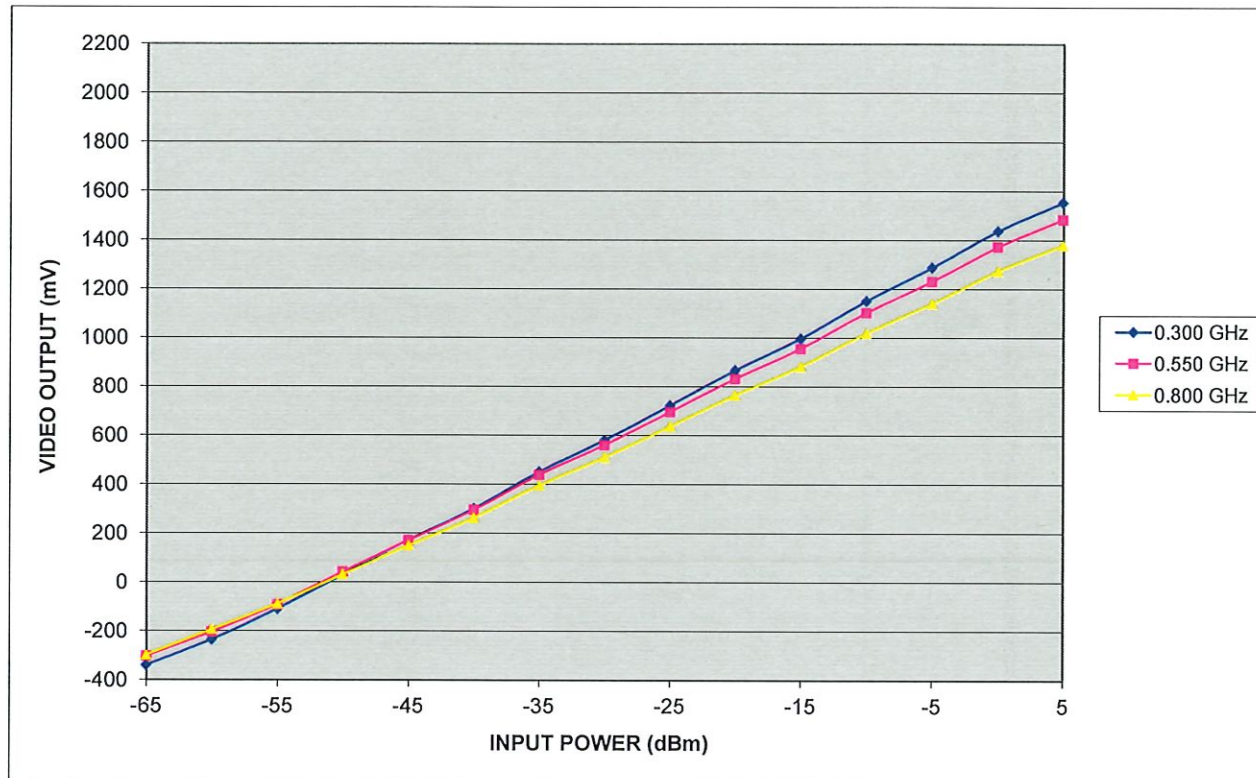
0.30 INTERCEPT (mV)    1418  
 SLOPE (mV/dB)    27.59  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1354  
 SLOPE (mV/dB)    26.08  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1253  
 SLOPE (mV/dB)    24.33  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.78  
 LINEARITY(-65 TO +5dBm)    ± 1.45  
 FREQUENCY FLATNESS    ± 3.50

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-340	-236	-110	31	171	299	461	580	722	866	996	1150	1287	1436	1553	Measured Value (mV)
0.30 Error (mV)	35	2	-11	-7	-6	-15	-2	-11	-6	0	-8	8	7	18	-3	Error (mV)
0.30 Limited If Output (dBm)	-17.01	-16.36	-16.09	-15.96	-15.88	-15.82	-15.78	-15.77	-15.76	-15.76	-15.76	-15.77	-15.78	-15.78	-15.78	Measured Value (mV)
0.55 Measured Value (mV)	-304	-205	-93	41	169	294	438	559	696	831	954	1102	1230	1372	1483	Measured Value (mV)
0.55 Error (mV)	38	6	-12	-8	-11	-17	-3	-12	-6	0	-8	9	7	18	-1	Error (mV)
0.55 Limited If Output (dBm)	-16.76	-16.33	-16.09	-15.95	-15.86	-15.81	-15.80	-15.81	-15.82	-15.83	-15.84	-15.84	-15.85	-15.86	-15.89	Measured Value (mV)
0.80 Measured Value (mV)	-299	-195	-91	31	149	261	394	508	635	763	879	1017	1138	1272	1378	Measured Value (mV)
0.80 Error (mV)	30	12	-5	-5	-9	-19	-7	-15	-9	-3	-9	8	8	19	4	Error (mV)
0.80 Limited If Output (dBm)	-16.66	-16.22	-16.02	-15.91	-15.87	-15.86	-15.87	-15.88	-15.89	-15.89	-15.90	-15.90	-15.90	-15.92	-15.96	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.76 dBm  
 LIMITED IF OUTPUT MIN    -17.01 dBm  
 LIMITED IF FLATNESS    ± 0.63 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4325  
 TESTED BY: H. HAHN  
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1398  
 SLOPE (mV/dB)    27.64  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1333  
 SLOPE (mV/dB)    26.11  
 LIMITED IF OUTPUT (dBm)

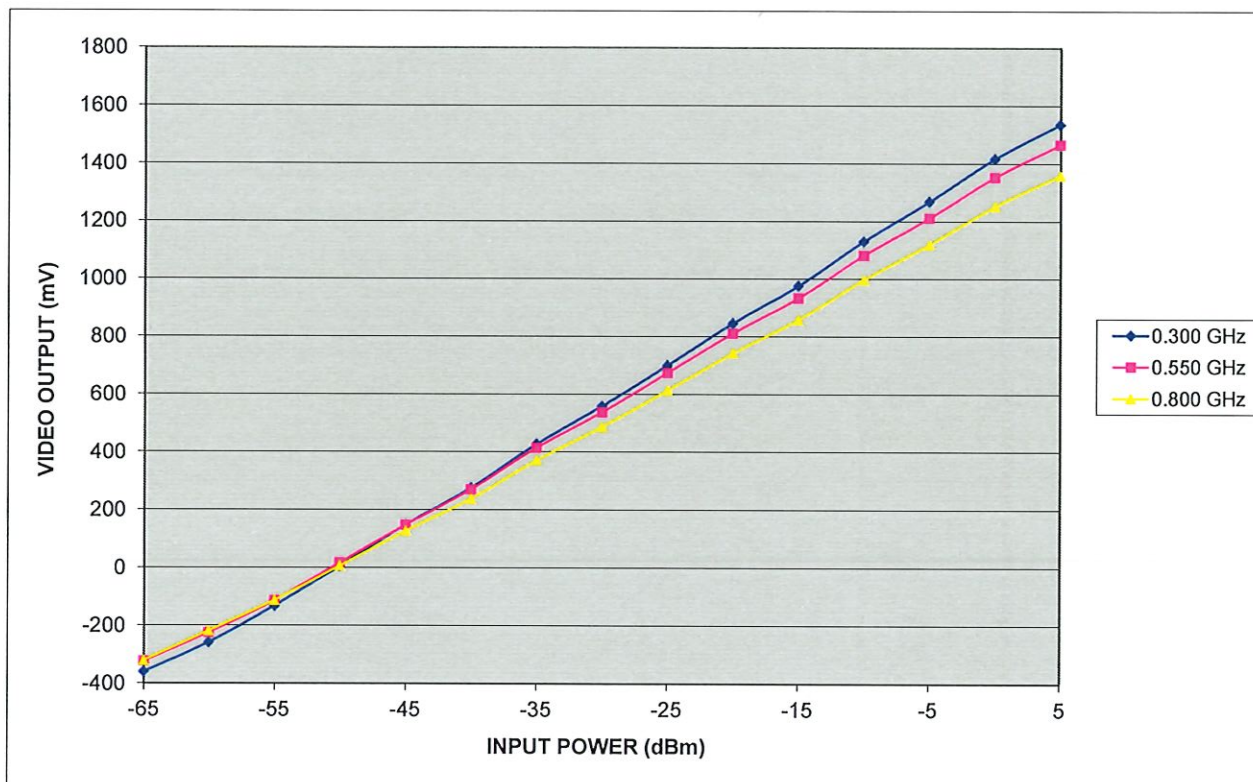
0.80 INTERCEPT (mV)    1232  
 SLOPE (mV/dB)    24.38  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.77  
 LINEARITY(-65 TO +5dBm)    ± 1.53  
 FREQUENCY FLATNESS    ± 3.53

TSS    95C  
 -65dBm MAX    -66 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.32V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-360	-269	-133	6	149	276	427	559	699	846	975	1129	1267	1416	1534	
0.30 Error (mV)	38	2	-11	-10	-6	-16	-3	-10	-8	0	-8	8	7	18	-2	
0.30 Limited If Output (dBm)	-17.18	-16.47	-16.16	-16.02	-15.92	-15.86	-15.83	-15.81	-15.80	-15.80	-15.81	-15.81	-15.82	-15.82	-15.82	
0.55 Measured Value (mV)	-324	-226	-115	17	148	271	415	538	673	811	933	1081	1210	1352	1464	
0.55 Error (mV)	40	8	-12	-10	-10	-18	-4	-12	-7	0	-8	9	7	19	0	
0.55 Limited If Output (dBm)	-16.89	-16.41	-16.16	-16.01	-15.91	-15.86	-15.85	-15.86	-15.86	-15.88	-15.88	-15.88	-15.89	-15.90	-15.93	
0.80 Measured Value (mV)	-322	-218	-113	6	127	238	371	487	613	742	858	995	1118	1251	1358	
0.80 Error (mV)	30	12	-5	-7	-8	-19	-8	-14	-10	-3	-9	7	8	19	4	
0.80 Limited If Output (dBm)	-16.81	-16.30	-16.08	-15.96	-15.91	-15.90	-15.91	-15.92	-15.93	-15.93	-15.94	-15.94	-15.95	-15.96	-16.00	



LIMITED IF OUTPUT MAX    -15.80 dBm  
 LIMITED IF OUTPUT MIN    -17.18 dBm  
 LIMITED IF FLATNESS    ± 0.69 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4325  
 TESTED BY: H. HAHN  
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1872  
 SLOPE (mV/dB)    29.08  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1806  
 SLOPE (mV/dB)    27.63  
 LIMITED IF OUTPUT (dBm)

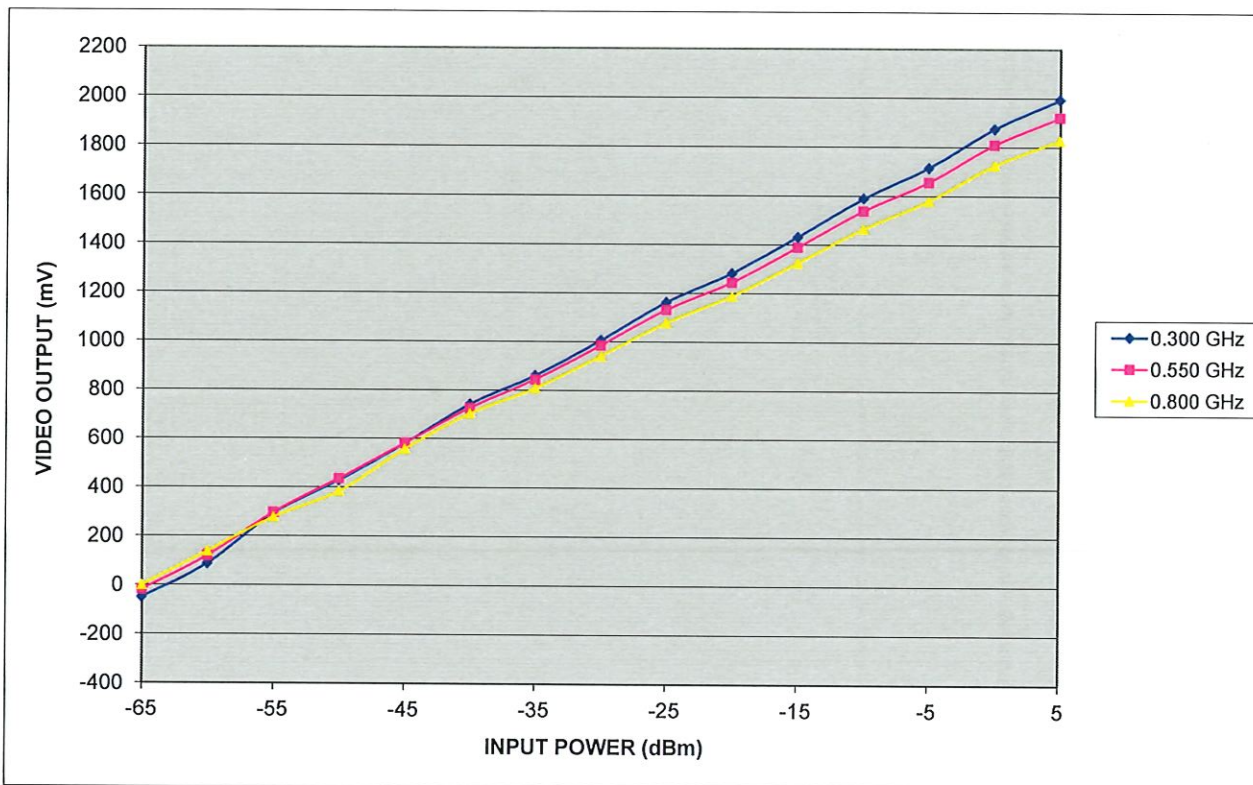
0.80 INTERCEPT (mV)    1719  
 SLOPE (mV/dB)    26.22  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.37  
 LINEARITY(-65 TO +5dBm)    ± 1.37  
 FREQUENCY FLATNESS    ± 3.30

TSS                    -54C  
 -65dBm MAX           -66dBm

OUTPUT VOLTAGE    -54C  
 2.7V MAX            2.61V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-50	87	292	429	579	742	861	1005	1163	1283	1431	1589	1715	1874	1992	Measured Value (mV)
0.30 Error (mV)	-32	-40	20	11	16	33	7	6	18	-8	-4	8	-12	2	-25	Error (mV)
0.30 Limited If Output (dBm)	-15.58	-15.56	-15.78	-15.86	-15.87	-15.89	-15.89	-15.87	-15.87	-15.90	-15.92	-15.92	-15.94	-15.94	-15.94	Measured Value (mV)
0.55 Measured Value (mV)	-19	119	296	435	580	726	844	984	1132	1244	1389	1538	1656	1810	1921	Measured Value (mV)
0.55 Error (mV)	-29	-29	9	11	18	26	5	7	17	-9	-3	8	-12	4	-23	Error (mV)
0.55 Limited If Output (dBm)	-15.51	-15.56	-15.64	-15.72	-15.84	-15.83	-15.77	-15.79	-15.84	-15.87	-15.87	-15.86	-15.86	-15.87	-15.88	Measured Value (mV)
0.80 Measured Value (mV)	-1	138	277	383	556	703	807	940	1078	1186	1325	1464	1579	1725	1827	Measured Value (mV)
0.80 Error (mV)	-16	-8	0	-25	17	32	6	7	14	-8	-1	7	-9	6	-23	Error (mV)
0.80 Limited If Output (dBm)	-15.50	-15.56	-15.60	-15.66	-15.75	-15.80	-15.74	-15.72	-15.76	-15.79	-15.78	-15.78	-15.78	-15.80	-15.89	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.50 dBm  
 LIMITED IF OUTPUT MIN    -15.94 dBm  
 LIMITED IF FLATNESS    ± 0.22 dBm