

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4310
 TESTED BY: H. HAHN
 DATE: 14/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) 1563
 SLOPE (mV/dB) 27.96
 LIMITED IF OUTPUT (dBm)

-238	-119	19	173	296	440	587	713	866	1000	1135	1294	1425	1579	1694	Measured Value (mV)
16	-4	-6	8	-9	-5	2	-12	2	-3	-9	10	2	16	-9	Error (mV)
-16.65	-16.30	-16.19	-16.11	-16.06	-16.02	-16.00	-16.99	-15.98	-15.98	-15.99	-16.00	-16.00	-16.00	-16.01	Measured Value (mV)

0.55 INTERCEPT (mV) 1504
 SLOPE (mV/dB) 26.61
 LIMITED IF OUTPUT (dBm)

-205	-96	34	175	295	436	573	694	842	968	1096	1249	1372	1520	1629	Measured Value (mV)
21	-3	-6	2	-11	-4	1	-11	4	-4	-8	11	1	16	-8	Error (mV)
-16.55	-16.31	-16.18	-16.09	-16.00	-15.98	-16.01	-16.02	-16.03	-16.04	-16.05	-16.05	-16.05	-16.05	-16.09	Measured Value (mV)

0.80 INTERCEPT (mV) 1409
 SLOPE (mV/dB) 24.91
 LIMITED IF OUTPUT (dBm)

-185	-78	38	163	289	400	531	646	785	905	1027	1170	1288	1428	1533	Measured Value (mV)
26	8	-1	0	-19	-12	-6	-15	0	-6	-8	10	4	20	-1	Error (mV)
-16.44	-16.23	-16.13	-16.09	-16.03	-15.98	-16.01	-16.03	-16.05	-16.06	-16.06	-16.06	-16.06	-16.07	-16.10	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 1.04
 FREQUENCY FLATNESS ± 3.22

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.51V

INPUT VSWR
 2:1 MAX @ 25C 1.19:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.27:1

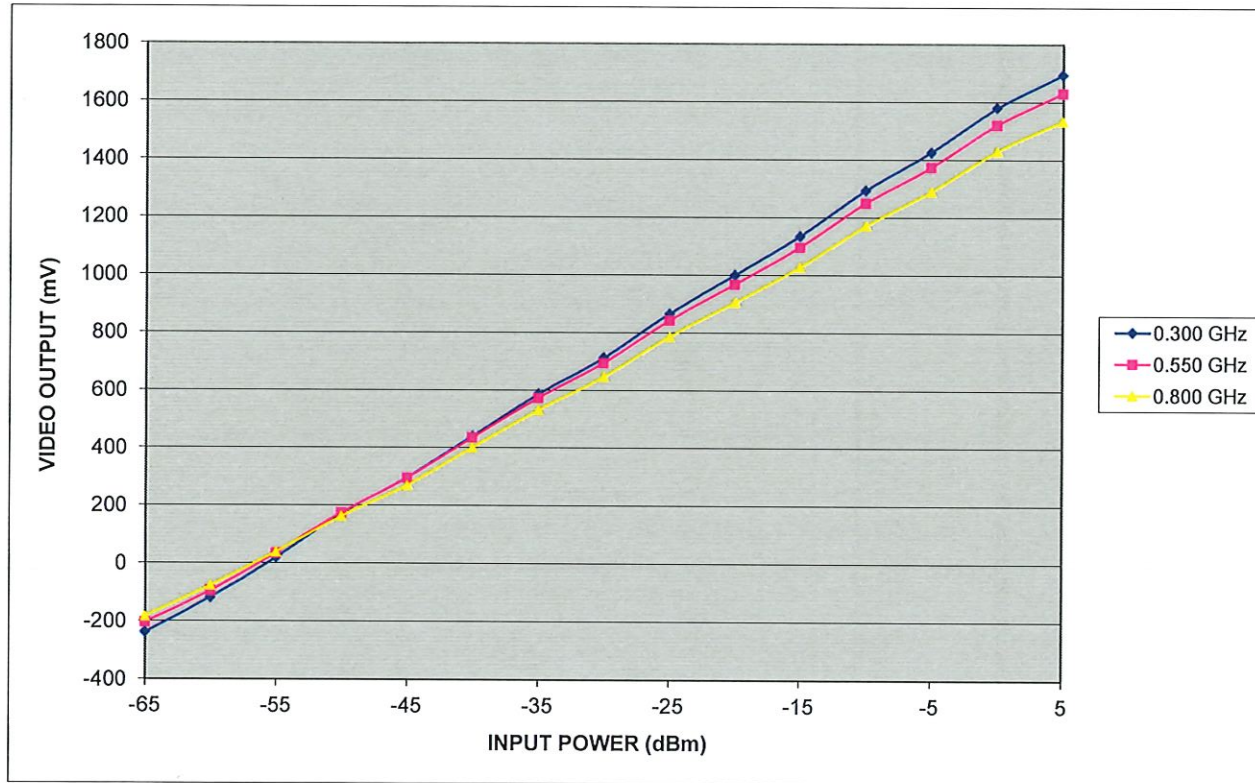
VIDEO RISE TIME
 25 nS MAX @ 25C 20 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 40 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 16 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 -16.65 dBm
 LIMITED IF FLATNESS ± 0.34 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4310
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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Frequency

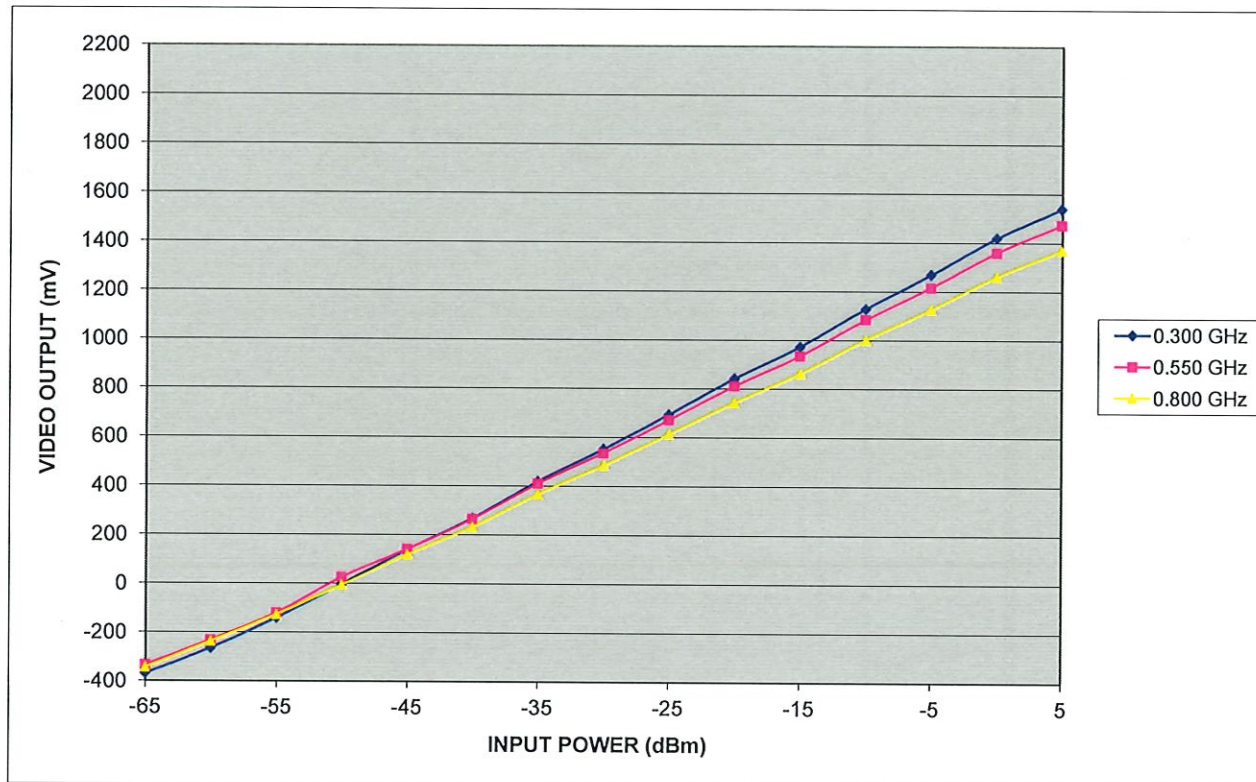
0.30 INTERCEPT (mV) 1399
 SLOPE (mV/dB) 27.83
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1339
 SLOPE (mV/dB) 26.34
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1242
 SLOPE (mV/dB) 24.84
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 1.48
 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)	-389	-266	-142	-3	139	267	419	551	694	841	972	1128	1268	1419	1538	
0.30 Error (mV)	41	5	-10	-11	-7	-18	-6	-12	-9	-1	-9	8	8	20	1	
0.30 Limited IF Output (dBm)	-17.04	-16.36	-16.07	-15.94	-15.85	-15.79	-15.75	-15.74	-15.73	-15.73	-15.73	-15.74	-15.74	-15.74	-15.74	
0.55 Measured Value (mV)	-334	-235	-123	26	141	265	410	534	671	811	935	1084	1216	1359	1474	
0.55 Error (mV)	39	7	-13	4	-13	-21	-7	-14	-10	-2	-9	8	8	20	3	
0.55 Limited IF Output (dBm)	-16.77	-16.31	-16.07	-16.93	-16.84	-16.78	-16.77	-16.78	-16.79	-16.80	-16.81	-16.82	-16.82	-16.84	-16.87	
0.80 Measured Value (mV)	-345	-239	-129	-6	118	231	366	484	612	743	861	1001	1125	1260	1369	
0.80 Error (mV)	27	10	-4	-6	-6	-17	-6	-13	-9	-2	-9	7	7	18	3	
0.80 Limited IF Output (dBm)	-16.82	-16.27	-16.03	-16.90	-16.84	-16.82	-16.83	-16.83	-16.84	-16.85	-16.86	-16.86	-16.86	-16.88	-16.92	



LIMITED IF OUTPUT MAX -15.73 dBm
 LIMITED IF OUTPUT MIN -17.04 dBm
 LIMITED IF FLATNESS ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4310
 TESTED BY: H. HAHN
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1380
 SLOPE (mV/dB) 27.89
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1321
 SLOPE (mV/dB) 26.46
 LIMITED IF OUTPUT (dBm)

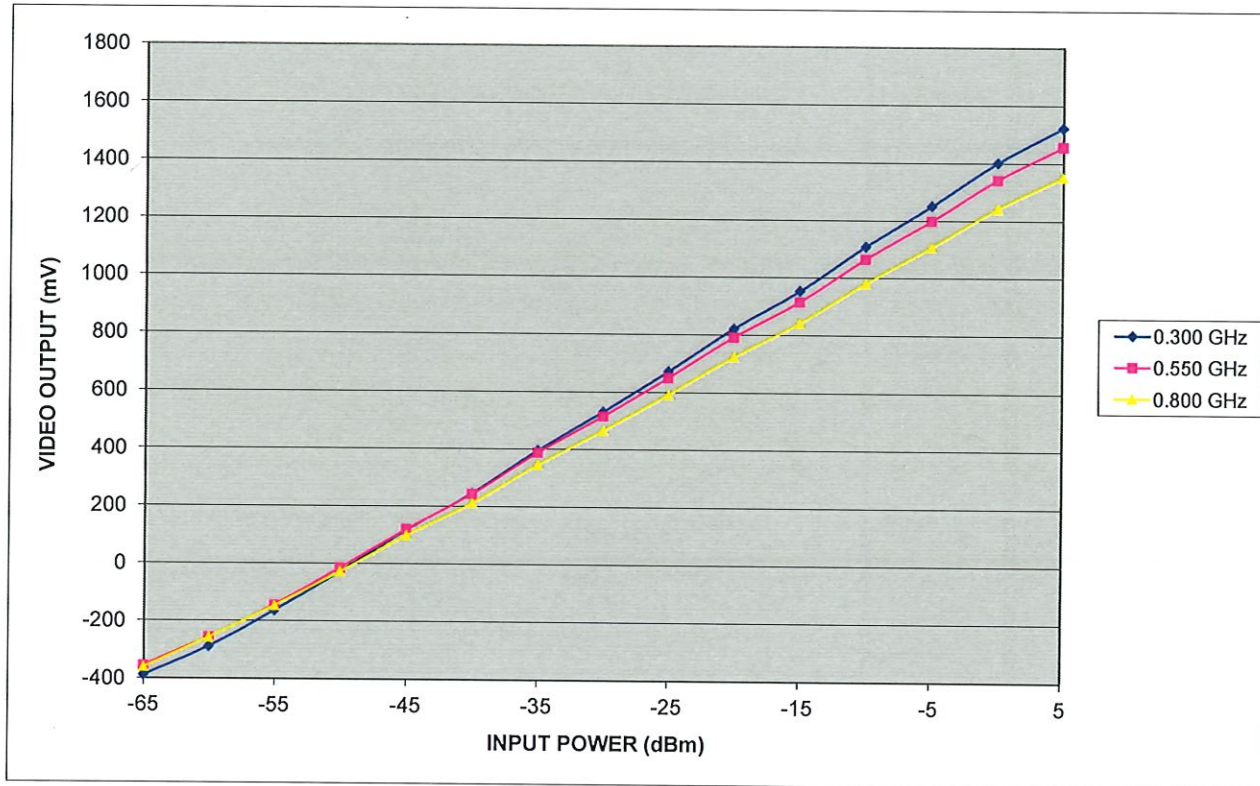
0.80 INTERCEPT (mV) 1222
 SLOPE (mV/dB) 24.83
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.63
 FREQUENCY FLATNESS ± 3.42

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-388	-289	-164	-28	118	245	397	532	672	822	953	1108	1250	1401	1521	
0.30 Error (mV)	45	5	-10	-13	-7	-19	-7	-12	-11	-1	-9	7	9	21	2	
0.30 Limited IF Output (dBm)	-17.22	-16.47	-16.14	-15.99	-15.89	-15.83	-15.79	-15.77	-15.76	-15.76	-15.77	-15.77	-15.78	-15.78	-15.78	
0.55 Measured Value (mV)	-356	-257	-146	-15	120	243	388	515	650	791	915	1064	1197	1341	1456	
0.55 Error (mV)	43	9	-11	-13	-10	-19	-7	-12	-10	-1	-9	8	9	20	3	
0.55 Limited IF Output (dBm)	-16.92	-16.41	-16.13	-15.98	-15.88	-15.82	-15.81	-15.81	-15.83	-15.84	-15.84	-15.85	-15.86	-15.87	-15.90	
0.80 Measured Value (mV)	-361	-257	-147	-27	99	211	345	465	591	723	841	980	1106	1241	1350	
0.80 Error (mV)	31	11	-4	-8	-6	-18	-8	-13	-11	-2	-9	7	8	19	4	
0.80 Limited IF Output (dBm)	-16.92	-16.33	-16.08	-15.94	-15.88	-15.86	-15.86	-15.87	-15.88	-15.88	-15.88	-15.89	-15.89	-15.91	-15.94	

TSS 95C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.33V



LIMITED IF OUTPUT MAX -15.76 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. :PL4310
 TESTED BY: H. HAHN
 DATE: 18/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1846
 SLOPE (mV/dB) 29.25
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1784
 SLOPE (mV/dB) 27.88
 LIMITED IF OUTPUT (dBm)

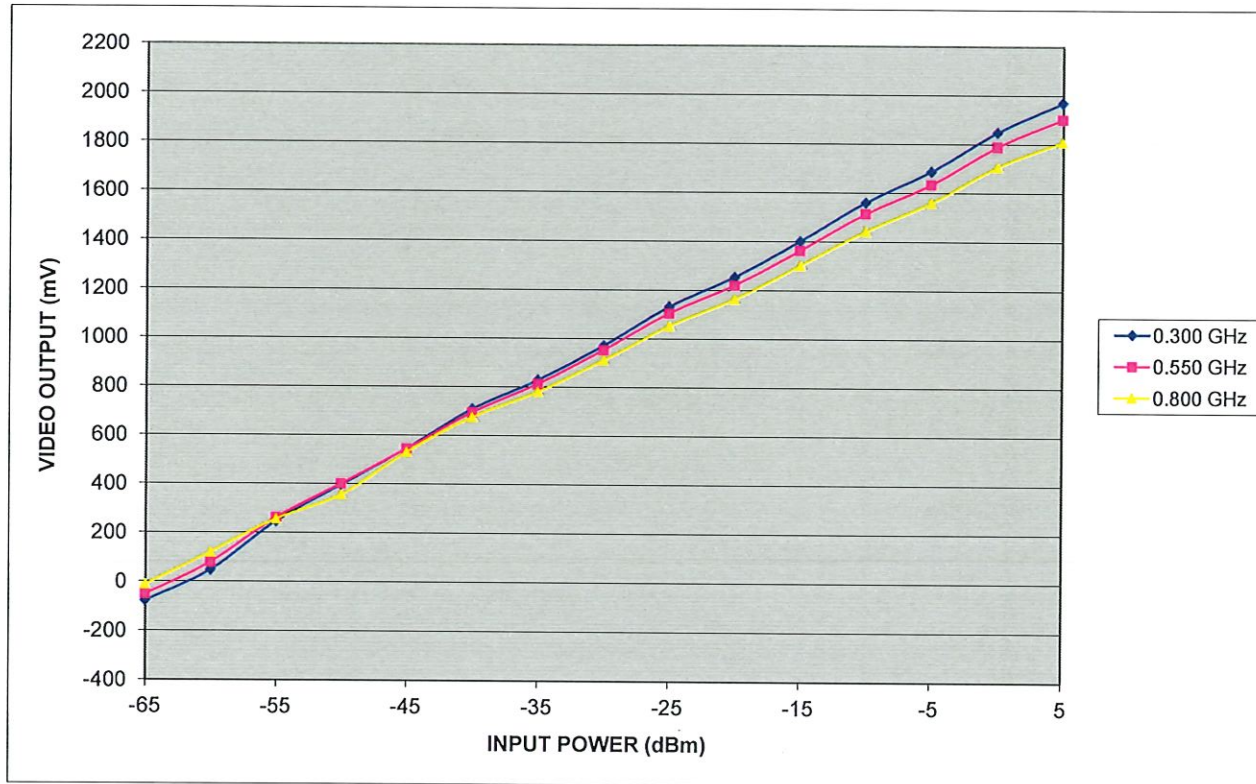
0.80 INTERCEPT (mV) 1694
 SLOPE (mV/dB) 26.19
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.47
 LINEARITY(-65 TO +5dBm) ± 1.47
 FREQUENCY FLATNESS ± 3.22

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-77	48	247	397	545	710	829	971	1132	1253	1401	1561	1688	1848	1969	
0.30 Error (mV)	-22	-43	10	14	16	34	7	3	17	-7	-6	8	-11	3	-23	
0.30 Limited If Output (dBm)	-15.65	-15.63	-15.86	-15.96	-15.93	-15.93	-15.94	-15.92	-15.93	-15.95	-15.97	-15.98	-15.99	-16.00	-16.00	
0.55 Measured Value (mV)	-51	78	281	401	544	695	812	953	1105	1219	1363	1514	1633	1788	1901	
0.55 Error (mV)	-23	-33	11	11	15	26	4	5	18	-8	-3	9	-12	4	-23	
0.55 Limited If Output (dBm)	-15.60	-15.66	-15.74	-15.81	-15.94	-15.91	-15.82	-15.83	-15.87	-15.90	-15.91	-15.91	-15.92	-15.93	-15.95	
0.80 Measured Value (mV)	-13	118	256	355	531	675	779	909	1050	1161	1299	1441	1557	1704	1808	
0.80 Error (mV)	-5	-5	2	-30	15	28	2	0	11	-9	-3	9	-6	10	-17	
0.80 Limited If Output (dBm)	-15.60	-15.64	-15.69	-15.78	-15.84	-15.88	-15.84	-15.80	-15.83	-15.84	-15.83	-15.82	-15.82	-15.84	-15.91	



LIMITED IF OUTPUT MAX -15.60 dBm
 LIMITED IF OUTPUT MIN -16.00 dBm
 LIMITED IF FLATNESS ± 0.20 dBm