

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4321  
 TESTED BY: H. HAHN  
 DATE: 8/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1598  
 SLOPE (mV/dB) 28.39  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1535  
 SLOPE (mV/dB) 26.94  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1430  
 SLOPE (mV/dB) 25.06  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.83  
 LINEARITY(-65 TO +5dBm) ± 1.18  
 FREQUENCY FLATNESS ± 3.48

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.49V

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

IF OUTPUT VSWR 2:1 MAX @ 25C  
 1.48:1

VIDEO RISE TIME 25 nS MAX @ 25C  
 20 nS

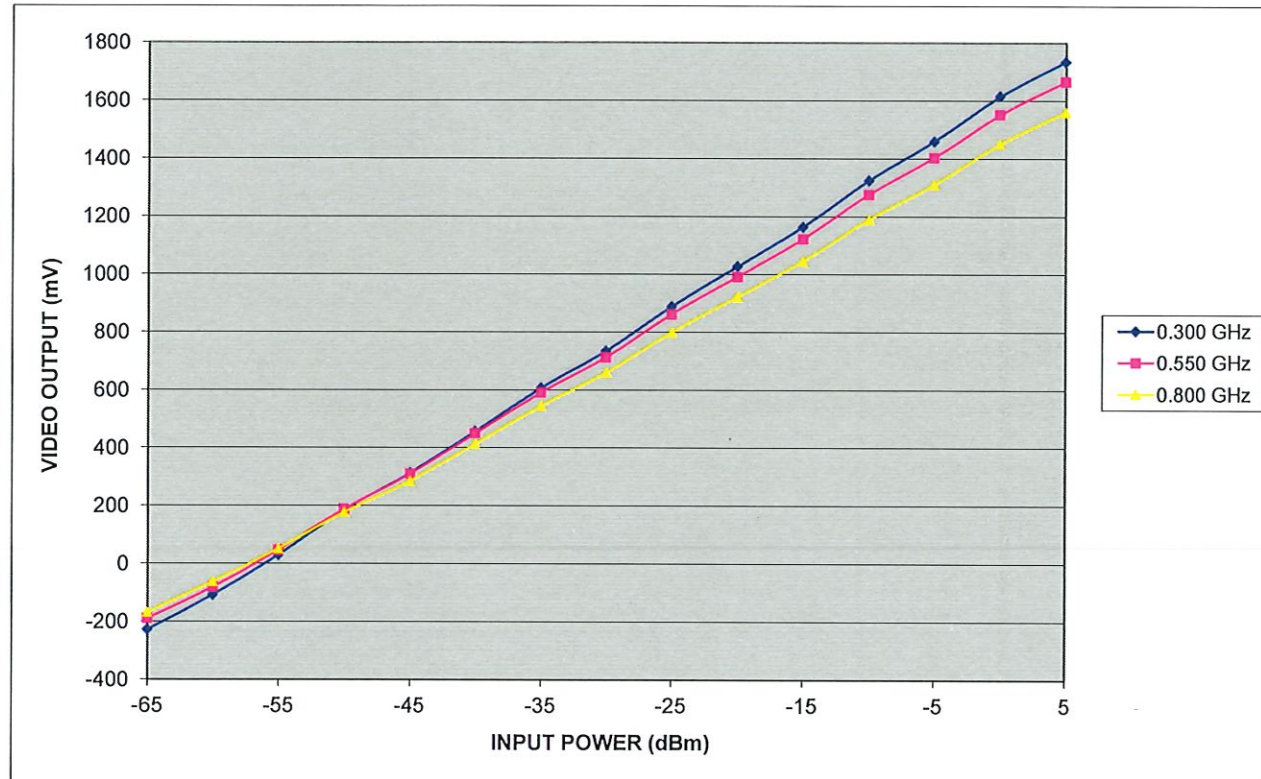
VIDEO FALL TIME 80 nS MAX @ 25C  
 46 nS

PROPERGATION 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)	-228	-108	30	185	312	456	607	734	888	1027	1163	1324	1459	1615	1734	
0.30 Error (mV)	19	-3	-7	6	-8	-6	2	-12	0	-3	-9	10	3	16	-7	
0.30 Measured Value (mV)	-16.88	-16.49	-16.36	-16.28	-16.22	-16.18	-16.16	-16.15	-16.14	-16.15	-16.16	-16.16	-16.17	-16.17	-16.18	
0.55 Measured Value (mV)	-191	-82	46	187	309	450	591	713	861	992	1122	1276	1403	1552	1666	
0.55 Error (mV)	26	0	-6	0	-13	-7	-1	-13	0	-4	-9	11	3	17	-4	
0.55 Measured Value (mV)	-16.75	-16.60	-16.36	-16.26	-16.18	-16.16	-16.18	-16.20	-16.21	-16.22	-16.22	-16.22	-16.22	-16.24	-16.27	
0.80 Measured Value (mV)	-169	-63	51	177	285	413	544	660	799	922	1046	1190	1310	1451	1560	
0.80 Error (mV)	30	11	-1	0	-18	-15	-9	-19	-5	-7	-9	10	5	21	4	
0.80 Measured Value (mV)	-16.63	-16.41	-16.32	-16.28	-16.26	-16.23	-16.24	-16.26	-16.27	-16.28	-16.28	-16.28	-16.29	-16.31	-16.35	



LIMITED IF OUTPUT MAX -16.14 dBm  
 LIMITED IF OUTPUT MIN -16.88 dBm  
 LIMITED IF FLATNESS ± 0.37 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4321  
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Frequency

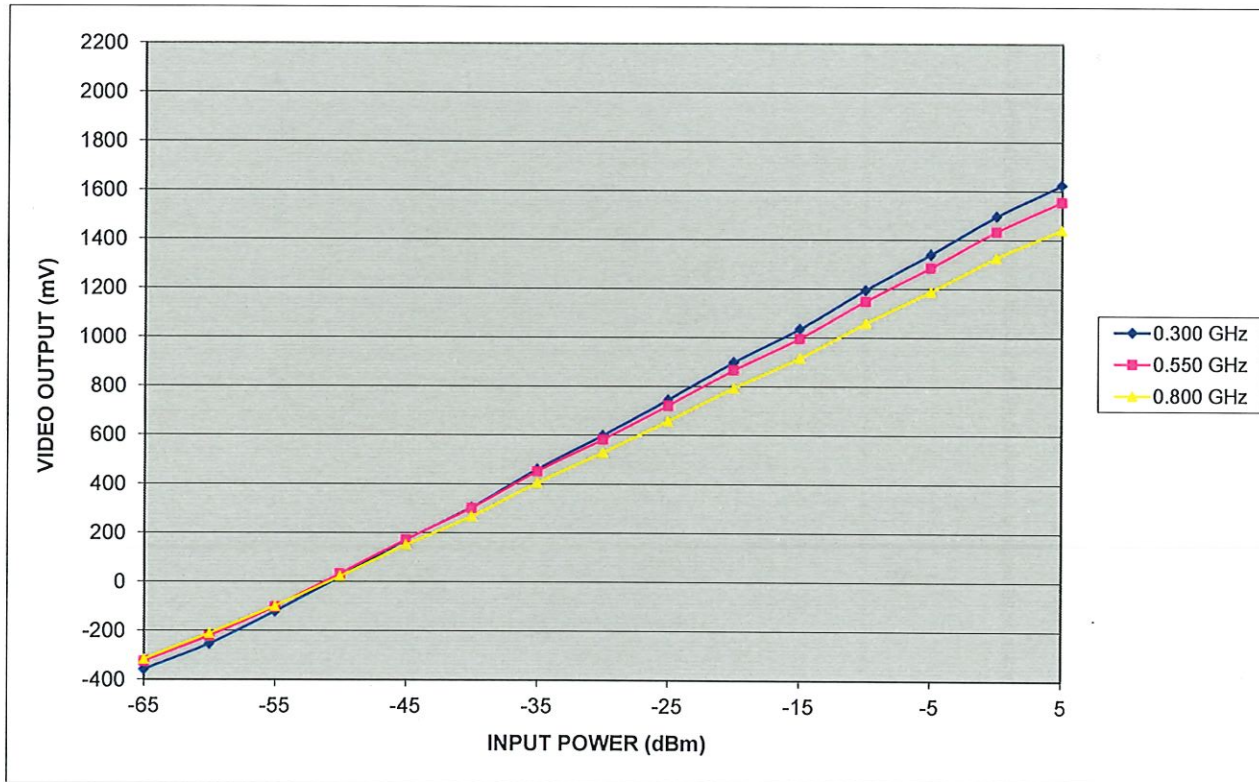
0.30 INTERCEPT (mV)    1477  
 SLOPE (mV/dB)    28.89  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1416  
 SLOPE (mV/dB)    27.42  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1307  
 SLOPE (mV/dB)    25.52  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.75  
 LINEARITY(-65 TO +5dBm)    ± 1.48  
 FREQUENCY FLATNESS    ± 3.64

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-359	-254	-122	21	170	304	460	599	745	898	1034	1194	1340	1496	1623	Measured Value (mV)
0.30 Error (mV)	42	3	-10	-12	-6	-17	-5	-11	-10	-1	-9	7	8	19	2	Error (mV)
0.30 Limited IF Output (dBm)	-17.39	-16.67	-16.36	-16.21	-16.12	-16.06	-16.02	-16.00	-16.00	-16.00	-16.00	-16.01	-16.01	-16.02	-16.02	Measured Value (mV)
0.55 Measured Value (mV)	-326	-222	-104	33	172	302	452	582	722	867	996	1149	1286	1434	1555	Measured Value (mV)
0.55 Error (mV)	41	7	-11	-12	-10	-17	-4	-11	-9	0	-9	8	7	18	2	Error (mV)
0.55 Limited IF Output (dBm)	-17.13	-16.62	-16.36	-16.21	-16.11	-16.05	-16.04	-16.05	-16.06	-16.06	-16.07	-16.07	-16.07	-16.08	-16.10	Measured Value (mV)
0.80 Measured Value (mV)	-318	-212	-101	23	150	267	406	528	658	794	915	1059	1188	1326	1441	Measured Value (mV)
0.80 Error (mV)	34	12	-5	-8	-8	-19	-8	-14	-11	-3	-9	7	8	19	6	Error (mV)
0.80 Limited IF Output (dBm)	-17.04	-16.53	-16.31	-16.18	-16.12	-16.11	-16.11	-16.12	-16.13	-16.13	-16.13	-16.13	-16.14	-16.14	-16.17	Measured Value (mV)



LIMITED IF OUTPUT MAX    -16.00 dBm  
 LIMITED IF OUTPUT MIN    -17.39 dBm  
 LIMITED IF FLATNESS    ± 0.70 dBm



LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4321  
 TESTED BY: H. HAHN  
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1462  
 SLOPE (mV/dB)    28.9  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1399  
 SLOPE (mV/dB)    27.36  
 LIMITED IF OUTPUT (dBm)

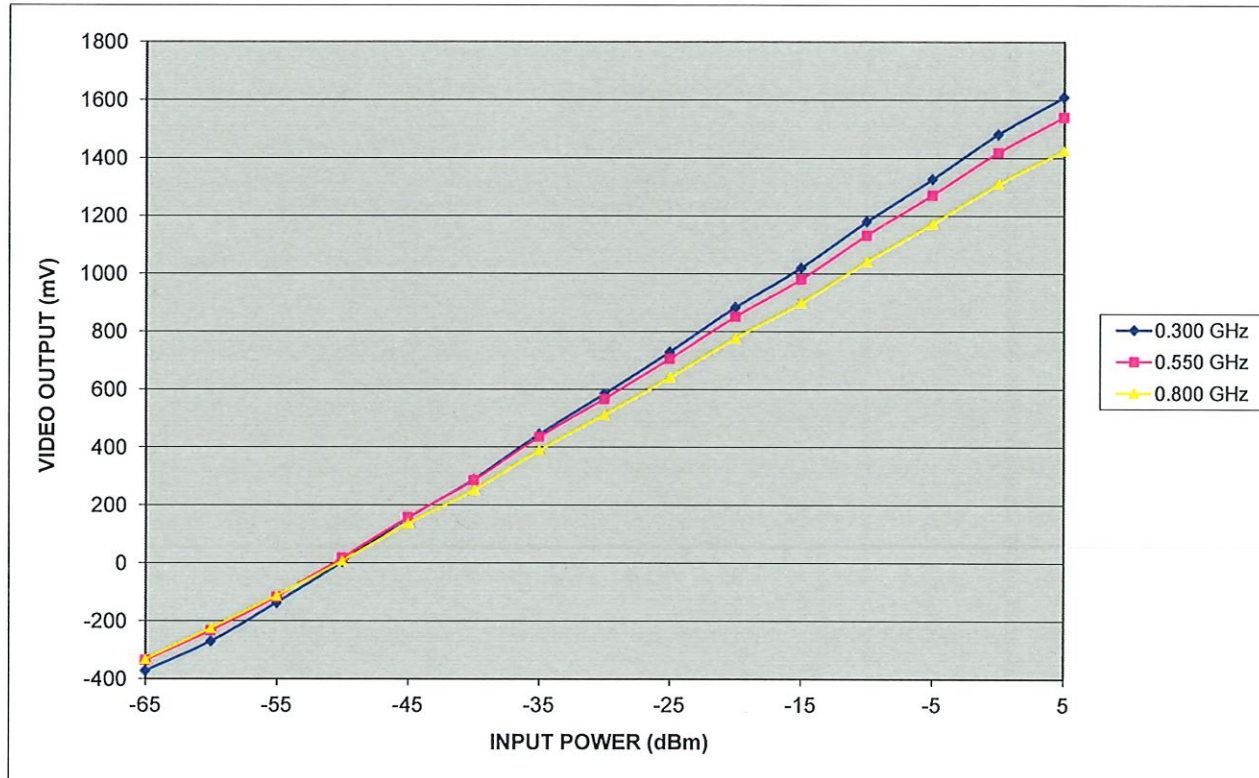
0.80 INTERCEPT (mV)    1290  
 SLOPE (mV/dB)    25.47  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.77  
 LINEARITY(-65 TO +5dBm)    ± 1.61  
 FREQUENCY FLATNESS    ± 3.69

TSS    95C  
 -65dBm MAX    -66 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.31V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 Measured Value (mV)	-372	-270	-137	4	155	288	444	584	729	883	1020	1179	1326	1481	1609	Measured Value (mV)	
0.30 Error (mV)	45	2	-10	-13	-6	-18	-6	-11	-11	-1	-9	7	9	19	2	Error (mV)	
0.30 Limited IF Output (dBm)	-17.33	-16.58	-16.24	-16.09	-16.00	-15.94	-15.90	-15.88	-15.88	-15.88	-15.88	-15.89	-15.89	-15.89	-15.90	Measured Value (mV)	
0.55 Measured Value (mV)	-335	-234	-117	18	158	286	435	567	705	851	980	1133	1271	1419	1540	Measured Value (mV)	
0.55 Error (mV)	44	9	-11	-13	-11	-19	-6	-12	-10	-1	-9	7	8	19	4	Error (mV)	
0.55 Limited IF Output (dBm)	-17.01	-16.61	-16.24	-16.08	-16.99	-15.93	-16.92	-16.93	-16.94	-16.95	-16.95	-16.95	-16.96	-16.97	-16.99	Measured Value (mV)	
0.80 Measured Value (mV)	-333	-226	-114	8	136	251	389	512	641	777	899	1041	1171	1309	1424	Measured Value (mV)	
0.80 Error (mV)	33	13	-3	-8	-7	-20	-10	-14	-12	-4	-9	6	9	20	7	Error (mV)	
0.80 Limited IF Output (dBm)	-16.94	-16.40	-16.17	-16.05	-16.00	-16.00	-16.00	-16.01	-16.02	-16.02	-16.02	-16.02	-16.02	-16.03	-16.05	-16.08	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.88 dBm  
 LIMITED IF OUTPUT MIN    -17.33 dBm  
 LIMITED IF FLATNESS    ± 0.73 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. : PL4321  
 TESTED BY: H. HAHN  
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1897  
 SLOPE (mV/dB) 29.22  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1832  
 SLOPE (mV/dB) 27.83  
 LIMITED IF OUTPUT (dBm)

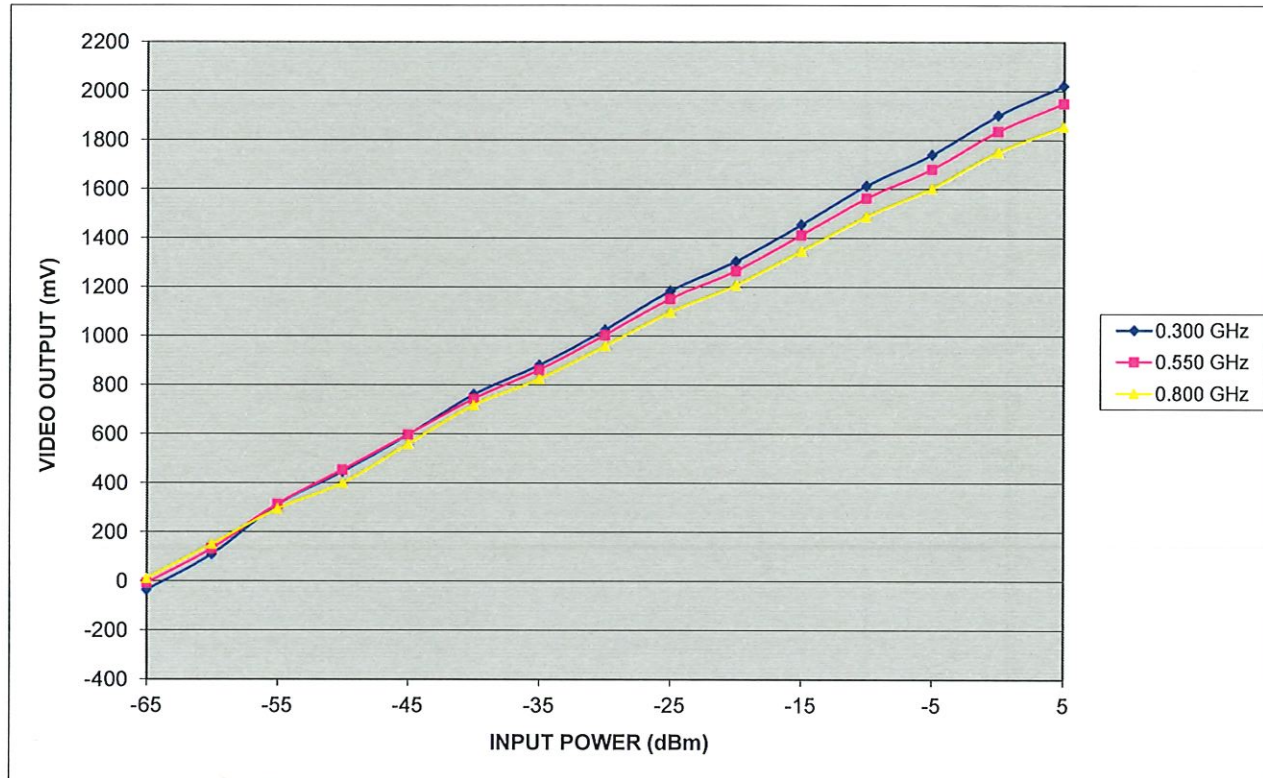
0.80 INTERCEPT (mV) 1742  
 SLOPE (mV/dB) 26.42  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.20  
 LINEARITY(-65 TO +5dBm) ± 1.20  
 FREQUENCY FLATNESS ± 3.35

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-36	109	311	446	596	761	880	1025	1184	1304	1454	1613	1739	1899	2021	Measured Value (mV)
0.30 Error (mV)	-34	-35	21	10	14	33	6	4	17	-8	-5	8	-12	2	-22	Error (mV)
0.30 Measured Value (mV)	-15.88	-15.79	-15.93	-16.00	-16.01	-16.03	-16.05	-16.03	-16.03	-16.05	-16.06	-16.07	-16.08	-16.08	-16.08	Measured Value (mV)
0.55 Measured Value (mV)	-9	131	313	453	597	744	861	1003	1152	1266	1411	1562	1680	1835	1949	Measured Value (mV)
0.55 Error (mV)	-31	-30	12	13	18	25	4	7	16	-9	-3	8	-13	4	-22	Error (mV)
0.55 Measured Value (mV)	-15.79	-15.77	-15.81	-15.87	-15.98	-15.98	-15.92	-15.94	-15.99	-16.01	-16.01	-16.01	-16.00	-16.01	-16.03	Measured Value (mV)
0.80 Measured Value (mV)	10	149	294	399	558	717	823	958	1097	1206	1346	1486	1601	1748	1853	Measured Value (mV)
0.80 Error (mV)	-15	-8	5	-22	5	32	6	8	15	-8	-1	8	-9	6	-22	Error (mV)
0.80 Measured Value (mV)	-15.77	-15.77	-15.77	-15.82	-15.86	-15.96	-15.92	-15.89	-15.93	-15.95	-15.95	-15.94	-15.94	-15.97	-16.06	Measured Value (mV)

TSS -54C  
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.77 dBm  
 LIMITED IF OUTPUT MIN -16.08 dBm  
 LIMITED IF FLATNESS ± 0.16 dBm