

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4338
 TESTED BY: H. HAHN
 DATE: 9/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1598
 SLOPE (mV/dB) 27.74
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1533
 SLOPE (mV/dB) 26.29
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1434
 SLOPE (mV/dB) 24.58
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 0.83
 FREQUENCY FLATNESS ± 3.40

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.4V

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

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.7:1

VIDEO RISE TIME
 25 nS MAX @ 25C 18 nS

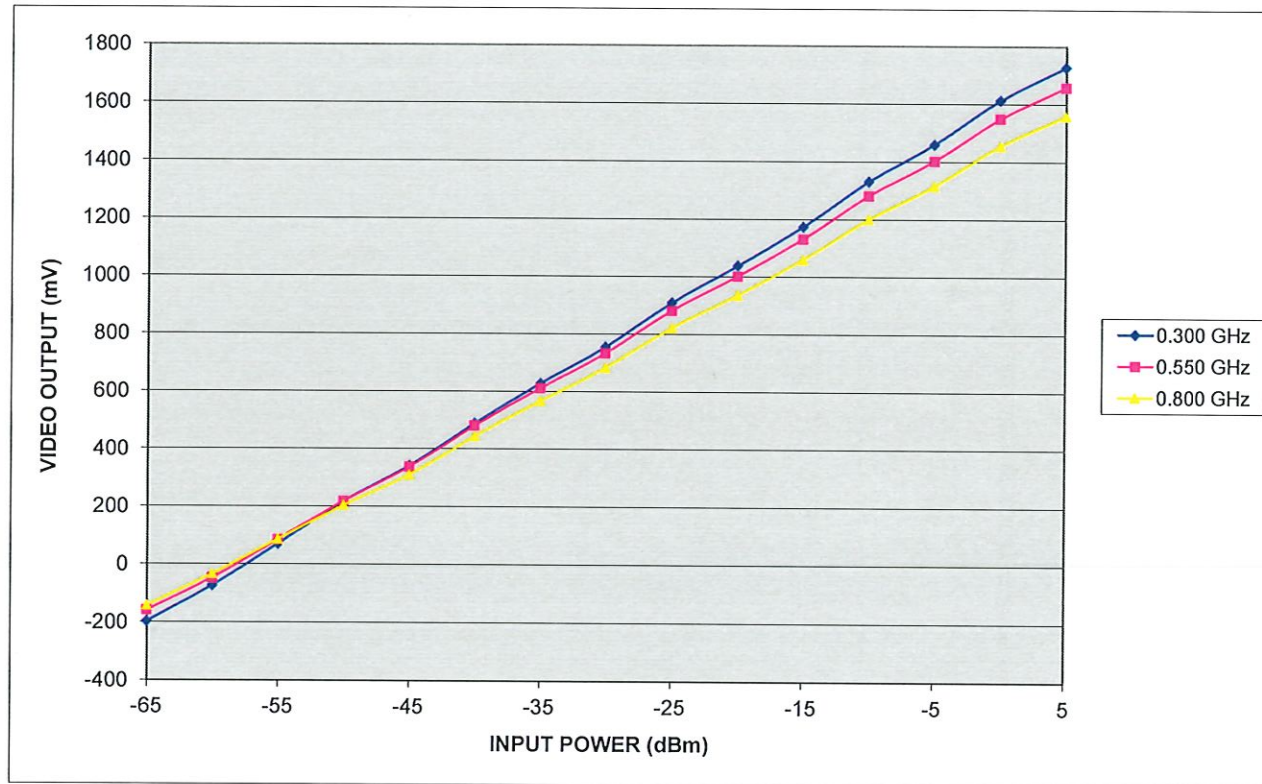
VIDEO FALL TIME
 80 nS MAX @ 25C 44 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 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)	-196	-73	71	219	341	490	629	755	910	1038	1174	1330	1459	1613	1727	
0.30 Error (mV)	9	-6	-1	8	-9	1	2	-10	5	-5	-8	10	0	15	-10	
0.30 Limited IF Output (dBm)	-16.34	-16.13	-16.07	-16.01	-15.96	-16.91	-16.89	-16.88	-15.88	-15.88	-15.90	-15.90	-15.91	-16.91	-16.91	
0.55 Measured Value (mV)	-159	-48	85	219	338	482	611	734	881	1001	1131	1281	1402	1549	1657	
0.55 Error (mV)	17	-3	-2	1	-12	1	-1	-10	6	-6	-8	11	0	16	-7	
0.55 Limited IF Output (dBm)	-16.27	-16.13	-16.04	-15.94	-15.86	-15.85	-15.90	-15.91	-15.92	-16.93	-16.94	-15.94	-15.93	-16.95	-16.97	
0.80 Measured Value (mV)	-143	-34	87	204	310	444	566	682	821	935	1058	1199	1314	1453	1557	
0.80 Error (mV)	20	7	4	-1	-19	-7	-8	-14	1	-8	-7	10	2	19	-1	
0.80 Limited IF Output (dBm)	-16.18	-16.03	-15.97	-15.94	-15.90	-15.85	-15.88	-15.91	-15.94	-15.95	-15.95	-15.95	-15.95	-15.97	-16.02	



LIMITED IF OUTPUT MAX -15.85 dBm
 LIMITED IF OUTPUT MIN -16.34 dBm
 LIMITED IF FLATNESS ± 0.24 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4338
 TESTED BY: H. HAHN
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Frequency

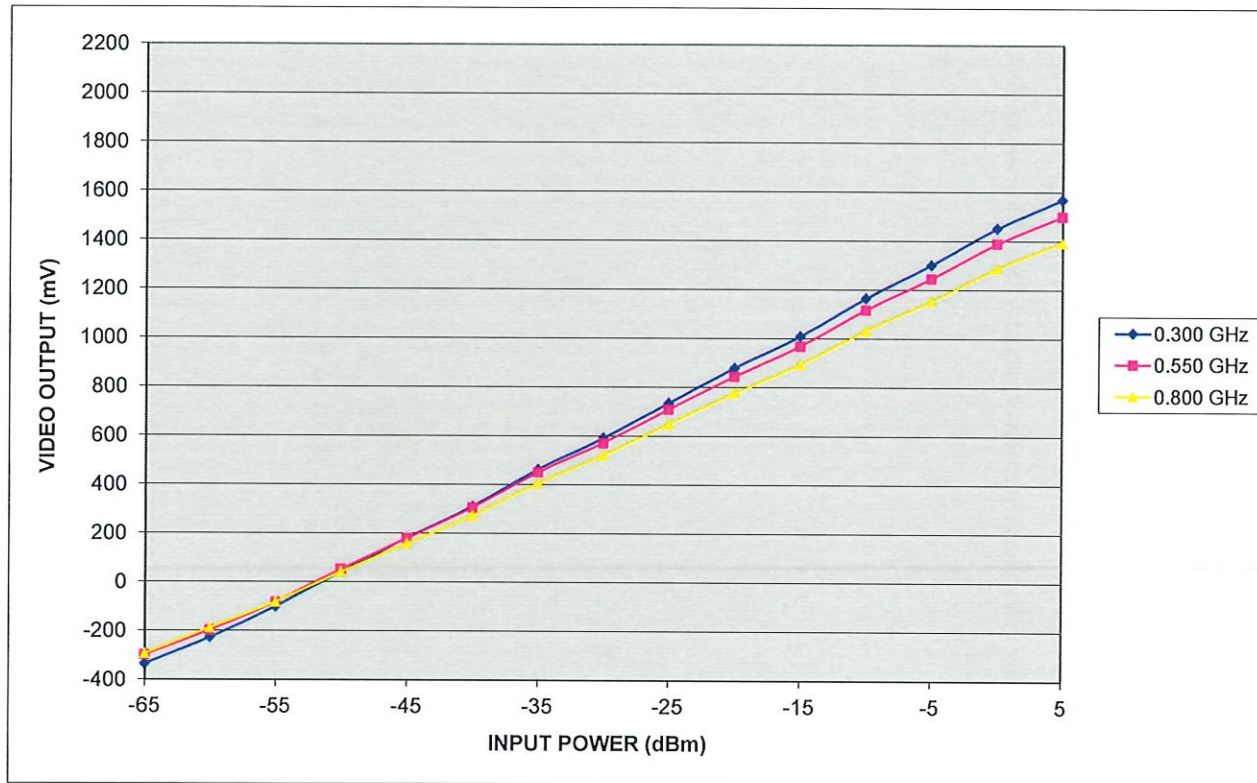
0.30 INTERCEPT (mV) 1433
 SLOPE (mV/dB) 27.7
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1369
 SLOPE (mV/dB) 26.21
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1266
 SLOPE (mV/dB) 24.44
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.36
 FREQUENCY FLATNESS ± 3.54

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-335	-227	-101	43	180	311	463	591	735	878	1009	1164	1300	1451	1569	
0.30 Error (mV)	33	2	-11	-5	-6	-14	-1	-11	-6	-1	-9	8	6	18	-3	
0.30 Limited IF Output (dBm)	-17.03	-16.44	-16.20	-16.08	-15.99	-15.94	-15.90	-15.88	-15.87	-15.87	-15.88	-15.89	-15.89	-15.89	-15.89	
0.55 Measured Value (mV)	-299	-198	-84	52	179	306	450	571	709	844	967	1116	1244	1387	1500	
0.55 Error (mV)	36	5	-11	-7	-11	-15	-2	-12	-5	-1	-9	9	6	18	-1	
0.55 Limited IF Output (dBm)	-16.80	-16.41	-16.19	-16.05	-15.95	-15.90	-15.90	-15.91	-15.92	-15.93	-15.94	-15.94	-15.94	-15.95	-15.98	
0.80 Measured Value (mV)	-295	-189	-83	42	158	272	405	519	647	774	891	1029	1151	1285	1392	
0.80 Error (mV)	27	11	-5	-3	-9	-17	-6	-15	-8	-4	-9	7	7	19	3	
0.80 Limited IF Output (dBm)	-16.71	-16.29	-16.09	-15.98	-15.94	-15.94	-15.95	-15.96	-15.97	-15.97	-15.97	-15.97	-15.98	-16.00	-16.04	



LIMITED IF OUTPUT MAX -15.87 dBm
 LIMITED IF OUTPUT MIN -17.03 dBm
 LIMITED IF FLATNESS ± 0.58 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4338
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1413
 SLOPE (mV/dB) 27.73
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1348
 SLOPE (mV/dB) 26.23
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1245
 SLOPE (mV/dB) 24.47
 LIMITED IF OUTPUT (dBm)

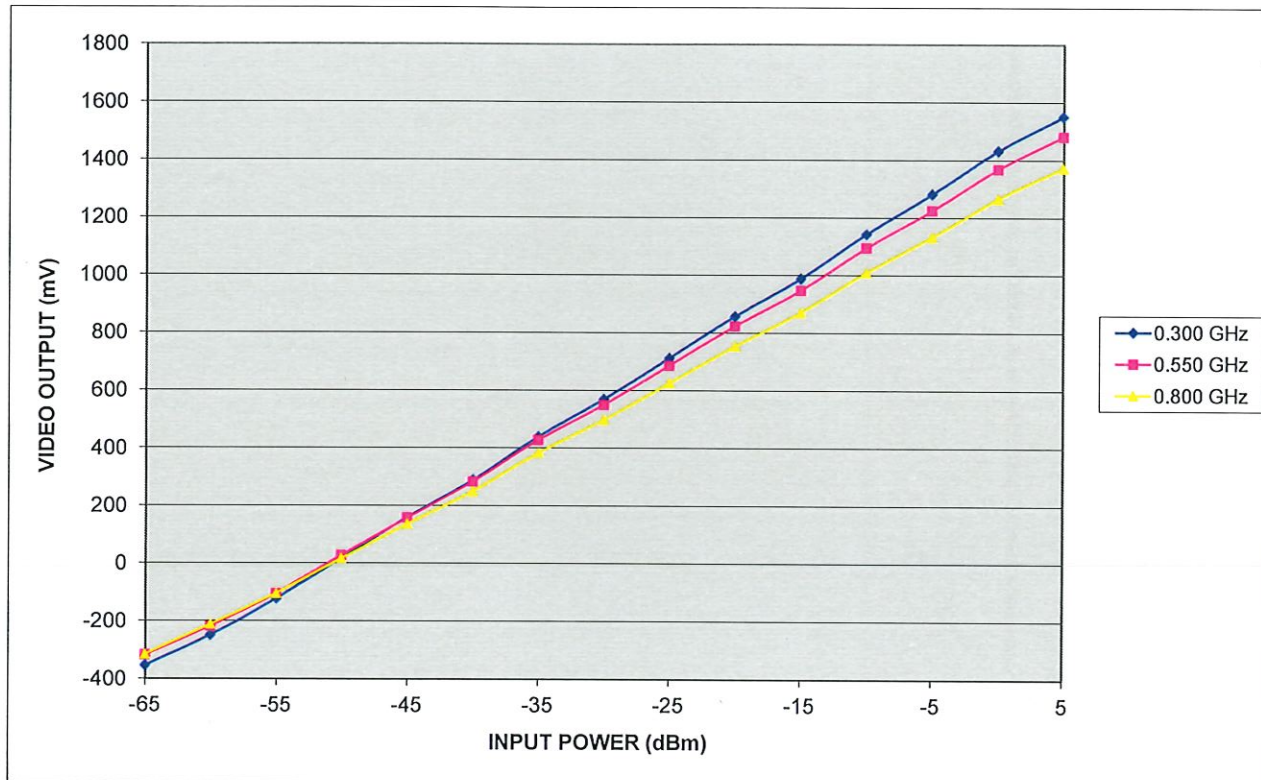
LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.45
 FREQUENCY FLATNESS ± 3.57

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 RF Input Power (dBm)

-354	-249	-123	19	169	288	440	570	712	858	988	1143	1281	1431	1550	Measured Value (mV)
36	2	-10	-8	-6	-16	-3	-11	-7	0	-9	7	7	19	-1	Error (mV)
-17.14	-16.49	-16.21	-16.08	-15.99	-15.93	-15.89	-15.87	-15.86	-15.86	-15.87	-15.88	-15.88	-15.88	-15.88	Measured Value (mV)
-318	-218	-106	28	158	283	427	550	686	823	946	1095	1224	1367	1480	Measured Value (mV)
38	7	-12	-9	-10	-16	-3	-12	-7	-1	-9	8	7	19	1	Error (mV)
-16.88	-16.44	-16.20	-16.05	-15.95	-15.90	-15.89	-15.90	-15.91	-15.92	-15.93	-15.93	-15.93	-15.94	-15.97	Measured Value (mV)
-316	-212	-105	17	137	249	382	497	624	753	869	1008	1130	1264	1371	Measured Value (mV)
29	11	-5	-5	-8	-17	-7	-14	-9	-3	-9	7	7	19	4	Error (mV)
-16.80	-16.32	-16.10	-15.98	-15.93	-15.93	-15.94	-15.95	-15.95	-15.96	-15.96	-15.97	-15.97	-15.99	-16.02	Measured Value (mV)

TSS 95C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.31V



LIMITED IF OUTPUT MAX -15.86 dBm
 LIMITED IF OUTPUT MIN -17.14 dBm
 LIMITED IF FLATNESS ± 0.64 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4338
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1905
 SLOPE (mV/dB) 29.12
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1837
 SLOPE (mV/dB) 27.66
 LIMITED IF OUTPUT (dBm)

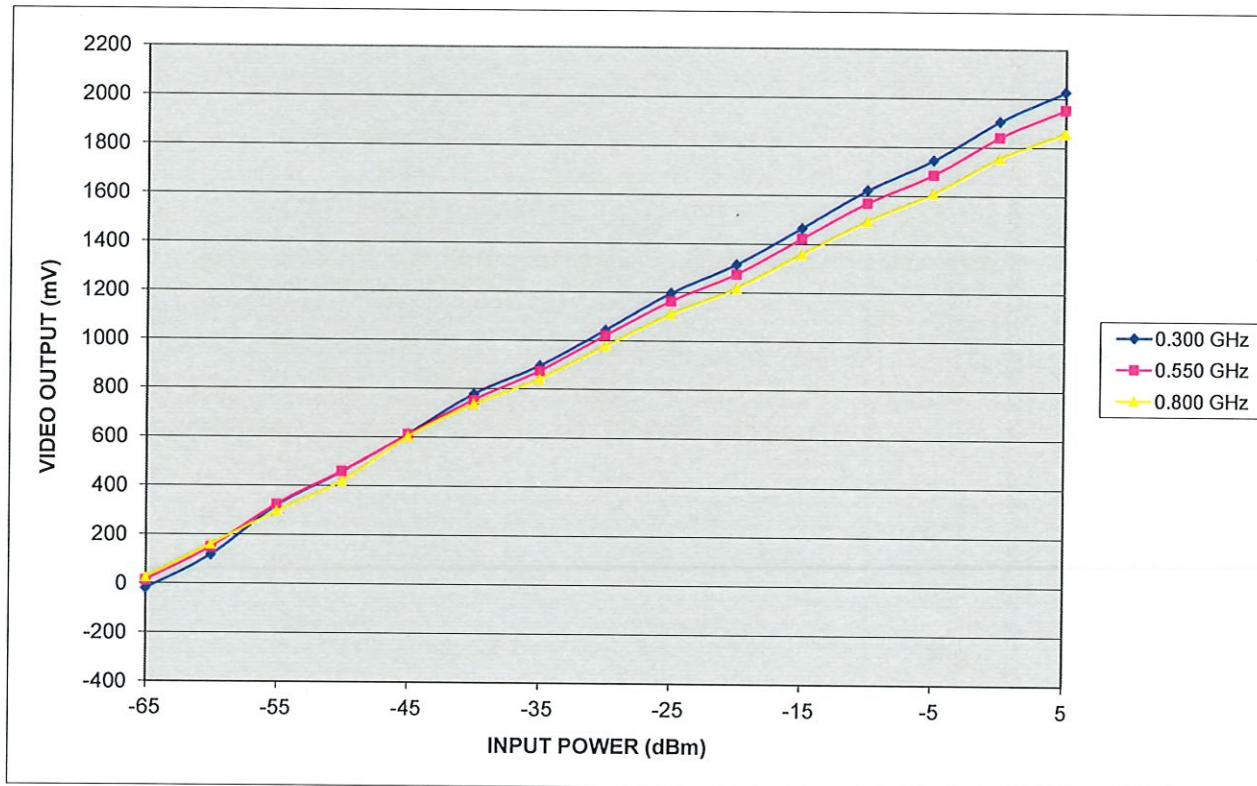
0.80 INTERCEPT (mV) 1749
 SLOPE (mV/dB) 26.23
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.40
 LINEARITY(-65 TO +5dBm) ± 1.40
 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)	-20	117	319	457	613	778	895	1043	1196	1315	1465	1621	1745	1905	2026	
0.30 Error (mV)	-32	-41	15	8	18	38	9	12	19	-9	-3	7	-15	0	-25	
0.30 Limited IF Output (dBm)	-15.21	-15.31	-15.60	-15.73	-15.78	-15.81	-15.83	-15.80	-15.81	-15.84	-15.86	-15.87	-15.89	-15.89	-15.89	
0.55 Measured Value (mV)	13	149	324	459	612	754	874	1021	1163	1275	1422	1568	1685	1840	1953	
0.55 Error (mV)	-26	-28	8	5	19	23	5	14	17	-9	0	7	-14	3	-23	
0.55 Limited IF Output (dBm)	-15.20	-15.33	-15.47	-15.60	-15.75	-15.74	-15.69	-15.74	-15.79	-15.81	-15.81	-15.80	-15.80	-15.81	-15.82	
0.80 Measured Value (mV)	24	159	296	419	603	736	839	976	1108	1216	1356	1493	1606	1752	1856	
0.80 Error (mV)	-21	-16	-11	-19	33	36	8	14	14	-9	0	6	-12	3	-25	
0.80 Limited IF Output (dBm)	-15.21	-15.32	-15.43	-15.59	-15.67	-15.70	-15.66	-15.64	-15.69	-15.71	-15.71	-15.71	-15.71	-15.74	-15.82	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.59V



LIMITED IF OUTPUT MAX -15.20 dBm
 LIMITED IF OUTPUT MIN -15.89 dBm
 LIMITED IF FLATNESS ± 0.35 dBm