

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4346  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1608  
 SLOPE (mV/dB) 27.84  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1539  
 SLOPE (mV/dB) 26.38  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1440  
 SLOPE (mV/dB) 24.63  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.79  
 LINEARITY(-65 TO +5dBm) ± 0.89  
 FREQUENCY FLATNESS ± 3.47

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-192	-69	72	224	347	495	636	762	917	1046	1182	1340	1469	1623	1734	
0.30 Error (mV)	10	-6	-4	8	-8	0	3	-10	5	-4	-8	10	1	15	-12	
0.30 Measured Value (mV)	-16.69	-16.36	-16.26	-16.19	-16.14	-16.11	-16.09	-16.08	-16.08	-16.09	-16.10	-16.10	-16.11	-16.11	-16.11	
0.55 Measured Value (mV)	-159	-49	84	221	340	483	616	737	885	1006	1136	1286	1408	1555	1661	
0.55 Error (mV)	17	-4	-4	2	-11	0	0	-10	6	-5	-7	11	0	16	-10	
0.55 Measured Value (mV)	-16.60	-16.38	-16.26	-16.17	-16.10	-16.09	-16.12	-16.13	-16.14	-16.15	-16.16	-16.16	-16.16	-16.17	-16.20	
0.80 Measured Value (mV)	-140	-32	86	209	314	446	570	686	825	940	1063	1204	1320	1459	1561	
0.80 Error (mV)	22	6	2	1	-17	-8	-7	-15	1	-7	-7	11	3	19	-2	
0.80 Measured Value (mV)	-16.50	-16.30	-16.22	-16.19	-16.16	-16.13	-16.14	-16.16	-16.17	-16.18	-16.18	-16.18	-16.18	-16.19	-16.22	

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.44V

INPUT VSWR 2:1 MAX @ 25C 1.18:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.52:1

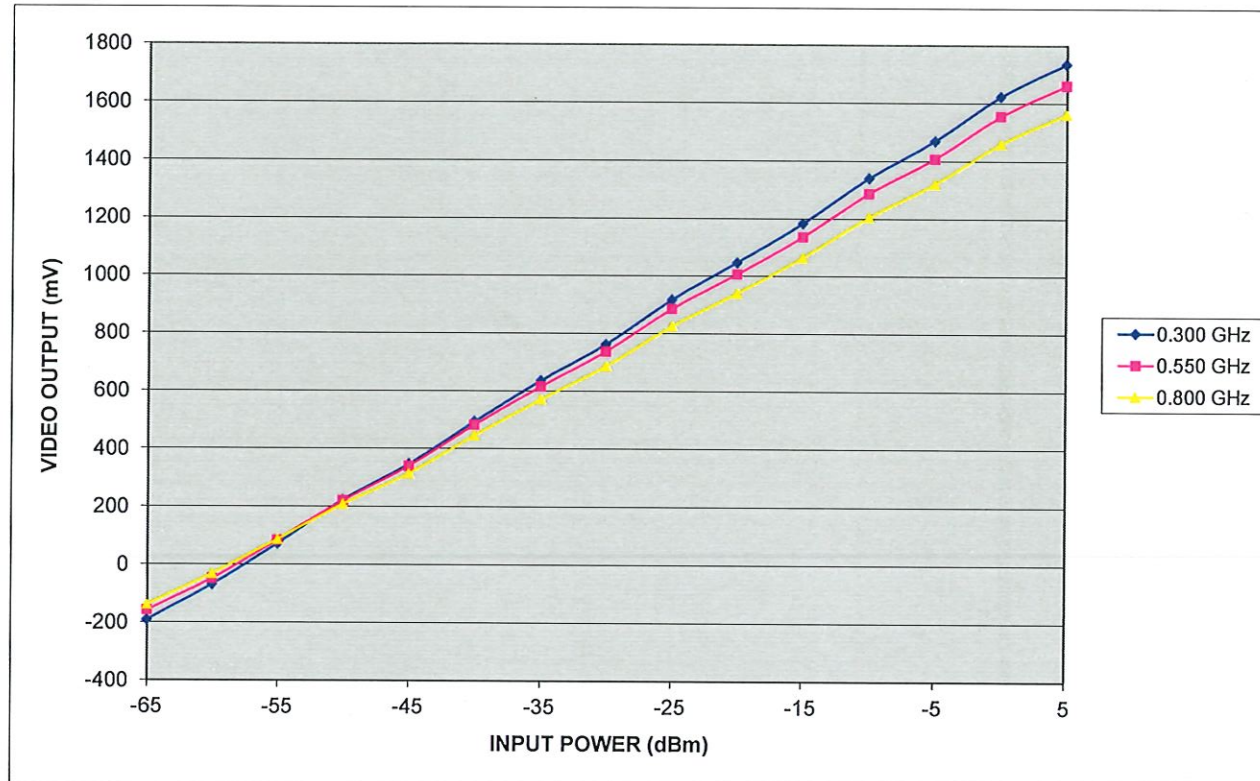
VIDEO RISE TIME 25 nS MAX @ 25C 20 nS

VIDEO FALL TIME 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C 16 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.08 dBm  
 LIMITED IF OUTPUT MIN -16.69 dBm  
 LIMITED IF FLATNESS ± 0.31 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4346  
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 DATE: 11/AUG/2008



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Frequency

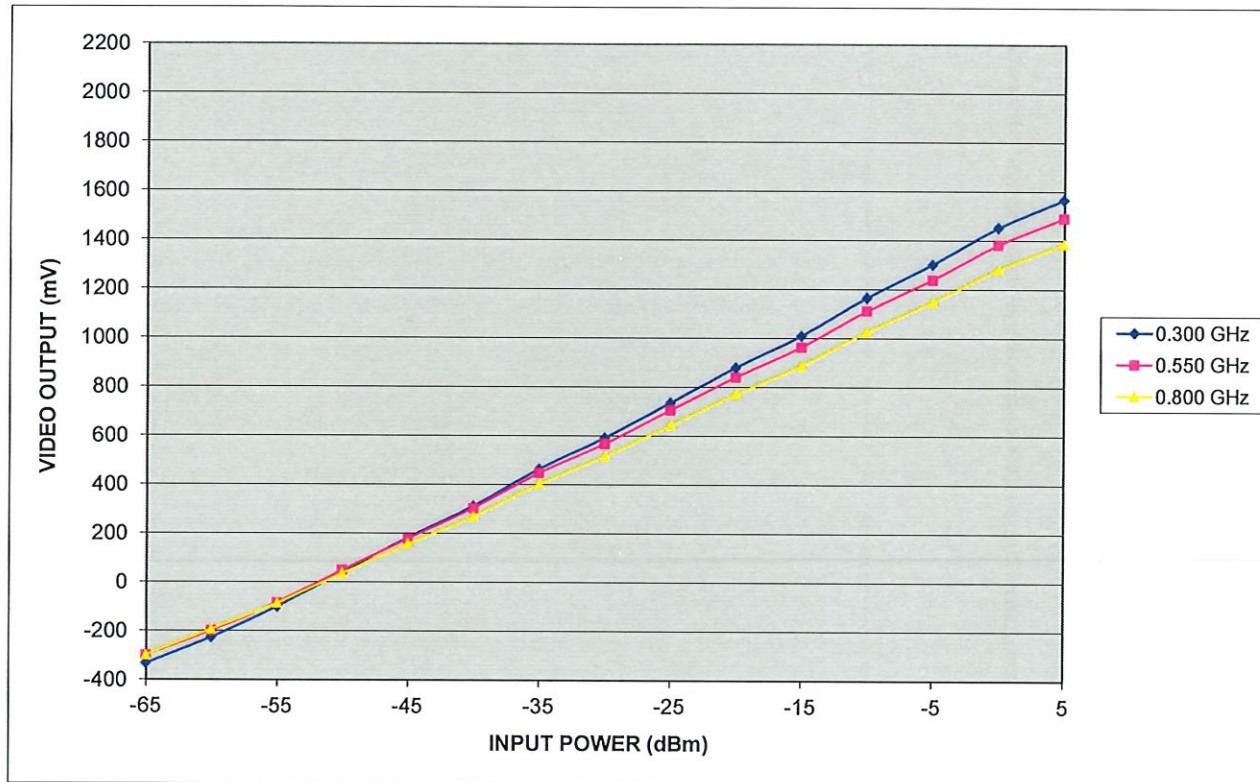
0.30 INTERCEPT (mV) 1433  
 SLOPE (mV/dB) 27.68  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1364  
 SLOPE (mV/dB) 26.13  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1262  
 SLOPE (mV/dB) 24.44  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76  
 LINEARITY(-65 TO +5dBm) ± 1.36  
 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)	-333	-226	-101	42	182	312	464	592	735	879	1009	1165	1301	1451	1566	Measured Value (mV)
0.30 Error (mV)	33	2	-12	-7	-6	-14	0	-11	-6	0	-8	9	6	18	-5	Error (mV)
0.30 Limited IF Output (dBm)	-16.90	-16.27	-16.00	-15.87	-15.79	-15.74	-15.71	-15.69	-15.69	-15.69	-15.70	-15.71	-15.71	-15.71	-15.71	Limited IF Output (dBm)
0.55 Measured Value (mV)	-299	-199	-86	49	177	303	447	568	705	840	963	1112	1239	1382	1492	Measured Value (mV)
0.55 Error (mV)	36	6	-12	-8	-10	-15	-2	-12	-5	-1	-8	9	6	18	-2	Error (mV)
0.55 Limited IF Output (dBm)	-16.67	-16.24	-16.01	-15.88	-15.79	-15.75	-15.74	-15.75	-15.77	-15.77	-15.78	-15.78	-15.79	-15.80	-15.83	Limited IF Output (dBm)
0.80 Measured Value (mV)	-300	-194	-87	37	166	269	402	516	644	771	887	1026	1147	1281	1385	Measured Value (mV)
0.80 Error (mV)	26	10	-6	-4	-7	-16	-5	-14	-8	-3	-9	8	7	18	1	Error (mV)
0.80 Limited IF Output (dBm)	-16.64	-16.17	-15.96	-15.85	-15.81	-15.80	-15.81	-15.81	-15.82	-15.82	-15.82	-15.82	-15.83	-15.83	-15.86	Limited IF Output (dBm)



LIMITED IF OUTPUT MAX -15.69 dBm  
 LIMITED IF OUTPUT MIN -16.90 dBm  
 LIMITED IF FLATNESS ± 0.60 dBm



LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4347  
 TESTED BY: H. HAHN  
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1407  
 SLOPE (mV/dB)        27.39  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1345  
 SLOPE (mV/dB)        25.95  
 LIMITED IF OUTPUT (dBm)

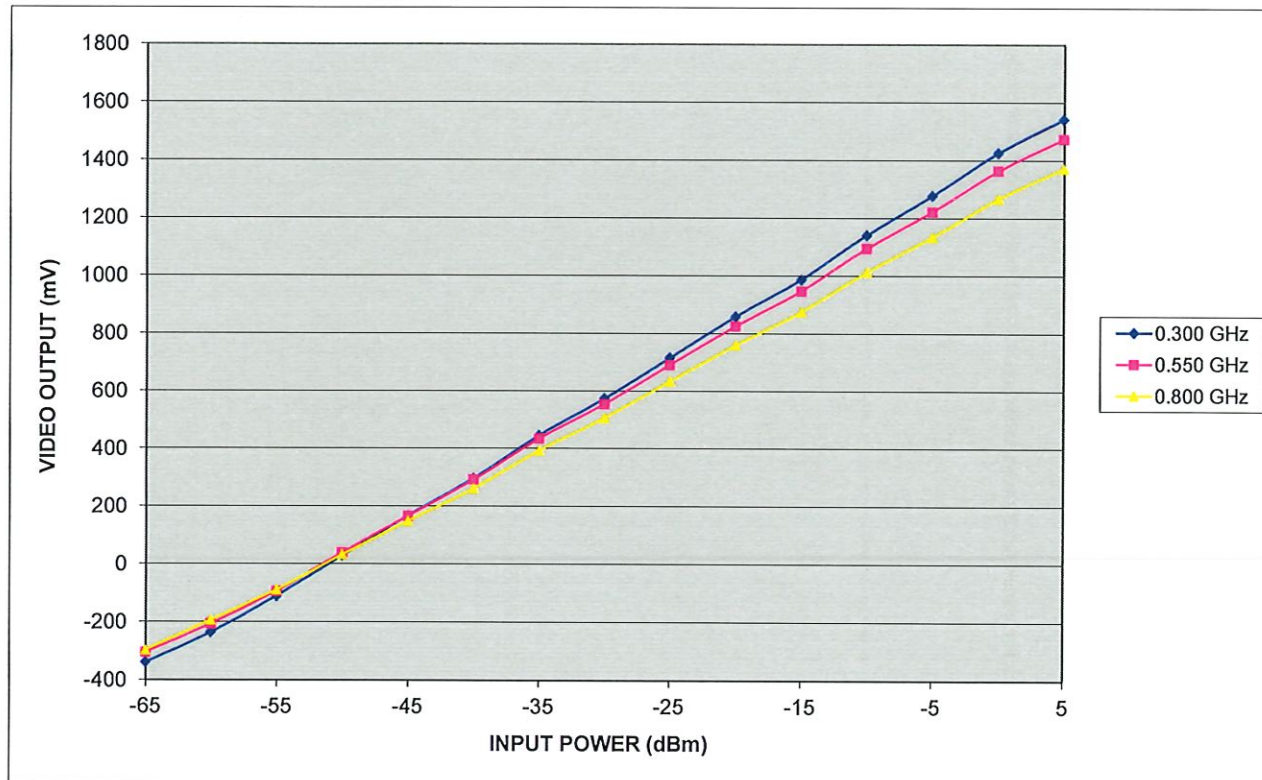
0.80 INTERCEPT (mV)    1246  
 SLOPE (mV/dB)        24.19  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.80  
 LINEARITY(-65 TO +5dBm)   ± 1.39  
 FREQUENCY FLATNESS        ± 3.40

TSS                    95C  
 -65dBm MAX        -67 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX            2.33V

	-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	-236	-111	30	168	296	446	574	715	858	987	1141	1276	1425	1541	Measured Value (mV)
0.30 Error (mV)	35	1	-11	-7	-6	-15	-2	-11	-7	0	-8	8	7	18	-3	Error (mV)
0.30 Limited If Output (dBm)	-17.28	-16.62	-16.34	-16.20	-16.12	-16.07	-16.04	-16.02	-16.02	-16.02	-16.02	-16.03	-16.03	-16.03	-16.03	Measured Value (mV)
0.55 Measured Value (mV)	-306	-207	-94	40	168	292	435	555	690	825	947	1094	1222	1363	1473	Measured Value (mV)
0.55 Error (mV)	36	5	-12	-7	-10	-15	-2	-12	-6	-1	-9	9	6	18	-1	Error (mV)
0.55 Limited If Output (dBm)	-17.03	-16.58	-16.34	-16.20	-16.11	-16.07	-16.06	-16.07	-16.08	-16.09	-16.09	-16.09	-16.10	-16.11	-16.13	Measured Value (mV)
0.80 Measured Value (mV)	-297	-194	-89	33	149	261	393	505	633	759	875	1012	1133	1266	1370	Measured Value (mV)
0.80 Error (mV)	29	11	-5	-4	-8	-18	-7	-15	-9	-4	-9	8	7	19	3	Error (mV)
0.80 Limited If Output (dBm)	-16.92	-16.46	-16.28	-16.18	-16.14	-16.13	-16.14	-16.15	-16.15	-16.15	-16.16	-16.16	-16.17	-16.18	-16.21	Measured Value (mV)



LIMITED IF OUTPUT MAX    -16.02 dBm  
 LIMITED IF OUTPUT MIN    -17.28 dBm  
 LIMITED IF FLATNESS        ±        0.63 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4346  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1891  
 SLOPE (mV/dB)        29.2  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1821  
 SLOPE (mV/dB)        27.7  
 LIMITED IF OUTPUT (dBm)

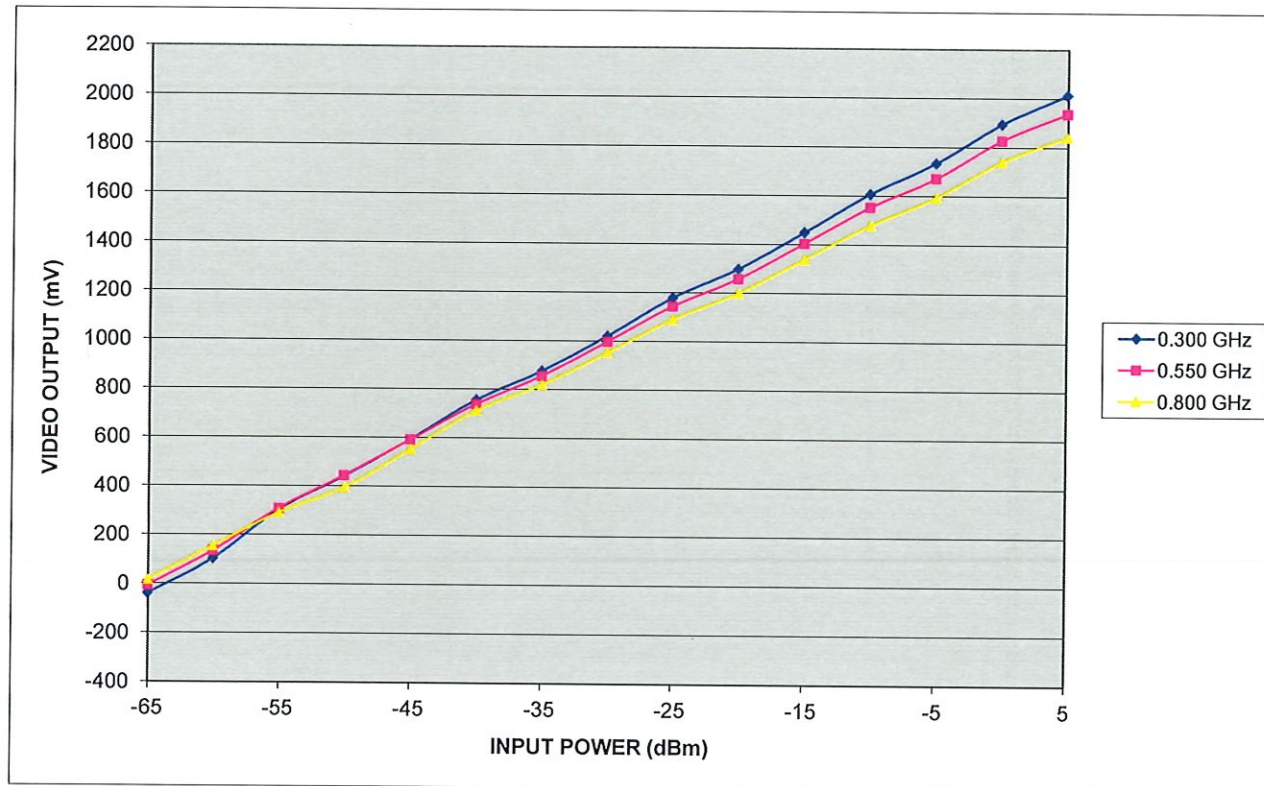
0.80 INTERCEPT (mV)    1731  
 SLOPE (mV/dB)        26.24  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.25  
 LINEARITY(-65 TO +5dBm) ± 1.25  
 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)	-40	103	304	442	592	757	876	1021	1179	1298	1448	1607	1733	1894	2013	
0.30 Error (mV)	-33	-37	18	11	15	34	7	6	18	-9	-5	8	-12	3	-24	
0.30 Limited IF Output (dBm)	-15.76	-15.71	-15.90	-15.97	-15.93	-15.96	-15.98	-15.96	-15.97	-15.99	-16.01	-16.02	-16.03	-16.03	-16.04	
0.55 Measured Value (mV)	-7	134	308	444	591	738	855	997	1144	1257	1403	1552	1671	1827	1937	
0.55 Error (mV)	-27	-25	10	8	16	25	3	7	15	-10	-2	8	-12	6	-22	
0.55 Limited IF Output (dBm)	-15.69	-15.72	-15.77	-15.82	-15.92	-15.93	-15.89	-15.90	-15.94	-15.96	-15.96	-15.95	-15.95	-15.96	-15.98	
0.80 Measured Value (mV)	16	154	291	394	552	712	818	952	1089	1198	1338	1477	1592	1740	1841	
0.80 Error (mV)	-10	-3	2	-25	1	30	5	8	14	-9	0	8	-8	8	-21	
0.80 Limited IF Output (dBm)	-15.67	-15.68	-15.71	-15.75	-15.71	-15.85	-15.84	-15.83	-15.86	-15.88	-15.87	-15.86	-15.86	-15.87	-15.93	

TSS                    -54C  
 -65dBm MAX        -65 dBm

OUTPUT VOLTAGE    -54C  
 2.7V MAX            2.65V



LIMITED IF OUTPUT MAX    -15.67 dBm  
 LIMITED IF OUTPUT MIN    -16.04 dBm  
 LIMITED IF FLATNESS        ± 0.18 dBm