

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4322
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1613
 SLOPE (mV/dB) 27.53
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1548
 SLOPE (mV/dB) 26.14
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1453
 SLOPE (mV/dB) 24.36
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.83
 LINEARITY(-65 TO +5dBm) ± 0.83
 FREQUENCY FLATNESS ± 3.27

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.06V

INPUT VSWR 2:1 MAX @ 25C 1.17:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.43:1

VIDEO RISE TIME 25 nS MAX @ 25C 22 nS

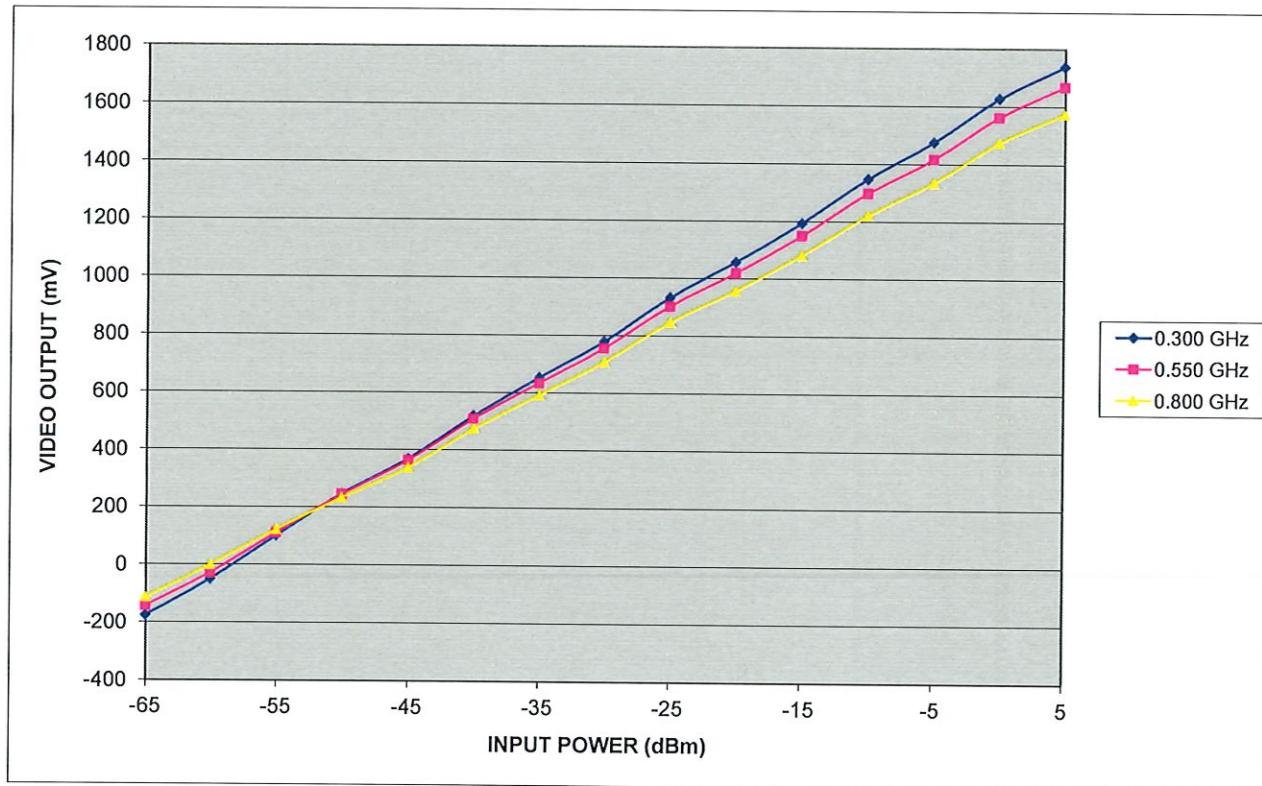
VIDEO FALL TIME 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C 14 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)	-176	-49	101	247	388	519	652	779	932	1057	1193	1347	1474	1627	1738		
0.30 Error (mV)	0	-11	2	10	-6	8	3	-9	7	-6	-8	9	-2	14	-13		
0.30 Limited If Output (dBm)	-16.40	-16.14	-16.08	-16.03	-15.99	-15.96	-15.94	-15.94	-15.93	-15.94	-15.95	-15.95	-15.95	-15.96	-15.96		
0.55 Measured Value (mV)	-144	-28	111	245	363	508	633	755	902	1018	1148	1297	1415	1562	1668		
0.55 Error (mV)	7	-8	1	4	-8	6	0	-8	8	-7	-7	10	-2	14	-11		
0.55 Limited If Output (dBm)	-16.33	-16.17	-16.08	-16.01	-15.95	-15.95	-15.99	-16.00	-16.00	-16.01	-16.01	-16.01	-16.01	-16.01	-16.02	-16.04	
0.80 Measured Value (mV)	-114	-1	122	233	338	473	591	707	846	956	1080	1220	1333	1473	1574		
0.80 Error (mV)	17	8	9	-2	-19	-5	-9	-15	2	-10	-7	10	2	20	-1		
0.80 Limited If Output (dBm)	-16.24	-16.10	-16.07	-16.07	-16.03	-15.98	-16.02	-16.04	-16.06	-16.06	-16.06	-16.06	-16.06	-16.07	-16.12		



LIMITED IF OUTPUT MAX -15.93 dBm
 LIMITED IF OUTPUT MIN -16.40 dBm
 LIMITED IF FLATNESS ± 0.23 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
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Frequency

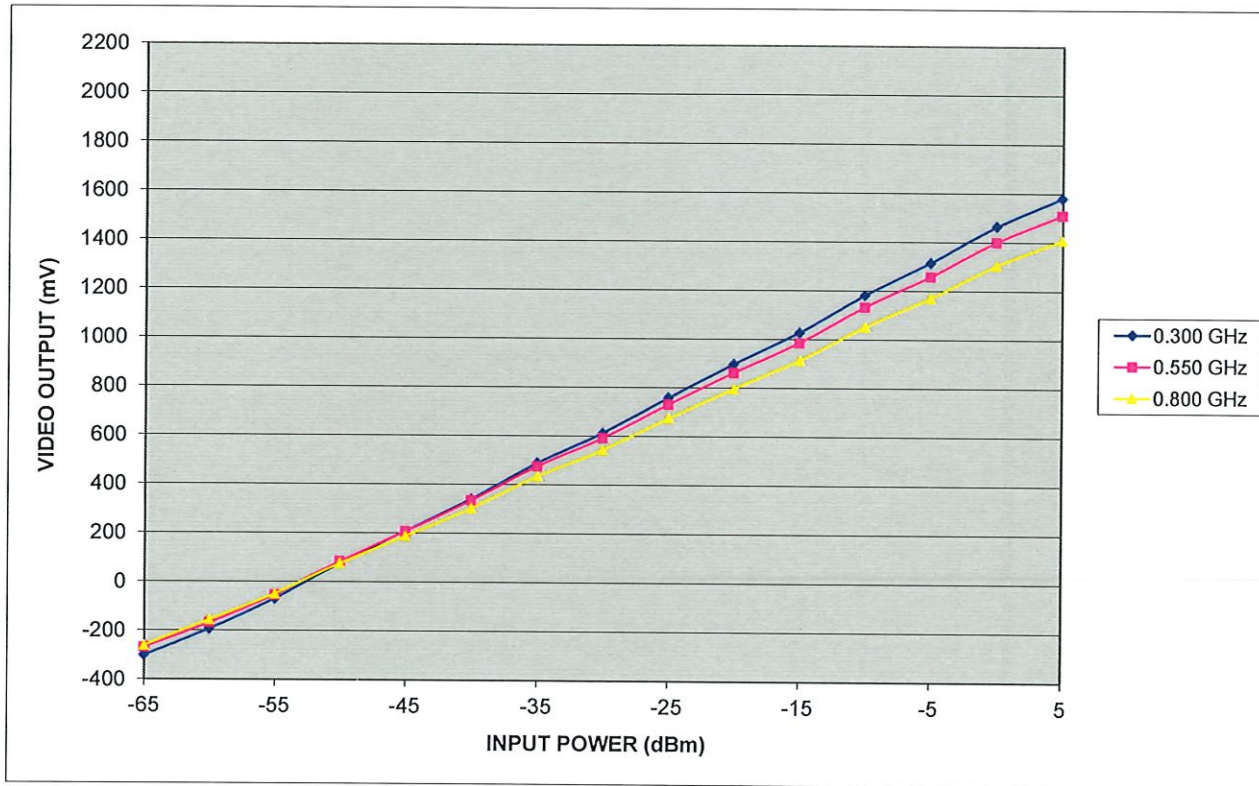
0.30 INTERCEPT (mV) 1447
 SLOPE (mV/dB) 27.36
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1383
 SLOPE (mV/dB) 25.91
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1285
 SLOPE (mV/dB) 24.19
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.79
 LINEARITY(-65 TO +5dBm) ± 1.26
 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)	-302	-194	-69	77	209	340	489	614	758	898	1027	1181	1315	1465	1580	Measured Value (mV)
0.30 Error (mV)	30	1	-11	-2	-7	-13	0	-12	-5	-2	-9	8	5	18	-3	Error (mV)
0.30 Limited IF Output (dBm)	-16.82	-16.27	-16.04	-15.93	-15.86	-15.81	-15.78	-15.77	-15.76	-15.76	-15.77	-15.77	-15.77	-15.77	-15.77	Measured Value (mV)
0.55 Measured Value (mV)	-269	-169	-53	84	207	335	475	593	731	863	985	1133	1258	1401	1511	Measured Value (mV)
0.55 Error (mV)	33	3	-11	-4	-10	-12	-1	-13	-4	-2	-9	9	5	18	-2	Error (mV)
0.55 Limited IF Output (dBm)	-16.63	-16.25	-16.05	-16.93	-15.85	-15.81	-15.81	-15.82	-15.83	-15.84	-15.84	-15.84	-15.84	-15.86	-15.88	Measured Value (mV)
0.80 Measured Value (mV)	-262	-166	-50	76	188	302	433	544	673	796	913	1051	1170	1304	1409	Measured Value (mV)
0.80 Error (mV)	25	10	-5	0	-9	-15	-5	-16	-7	-5	-10	8	6	19	3	Error (mV)
0.80 Limited IF Output (dBm)	-16.64	-16.15	-16.99	-16.91	-15.89	-15.88	-15.89	-15.90	-15.90	-15.91	-15.91	-15.91	-15.92	-16.94	-16.97	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.76 dBm
 LIMITED IF OUTPUT MIN -16.82 dBm
 LIMITED IF FLATNESS ± 0.53 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
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Frequency

0.30 INTERCEPT (mV) 1411
 SLOPE (mV/dB) 27.41
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1347
 SLOPE (mV/dB) 25.93
 LIMITED IF OUTPUT (dBm)

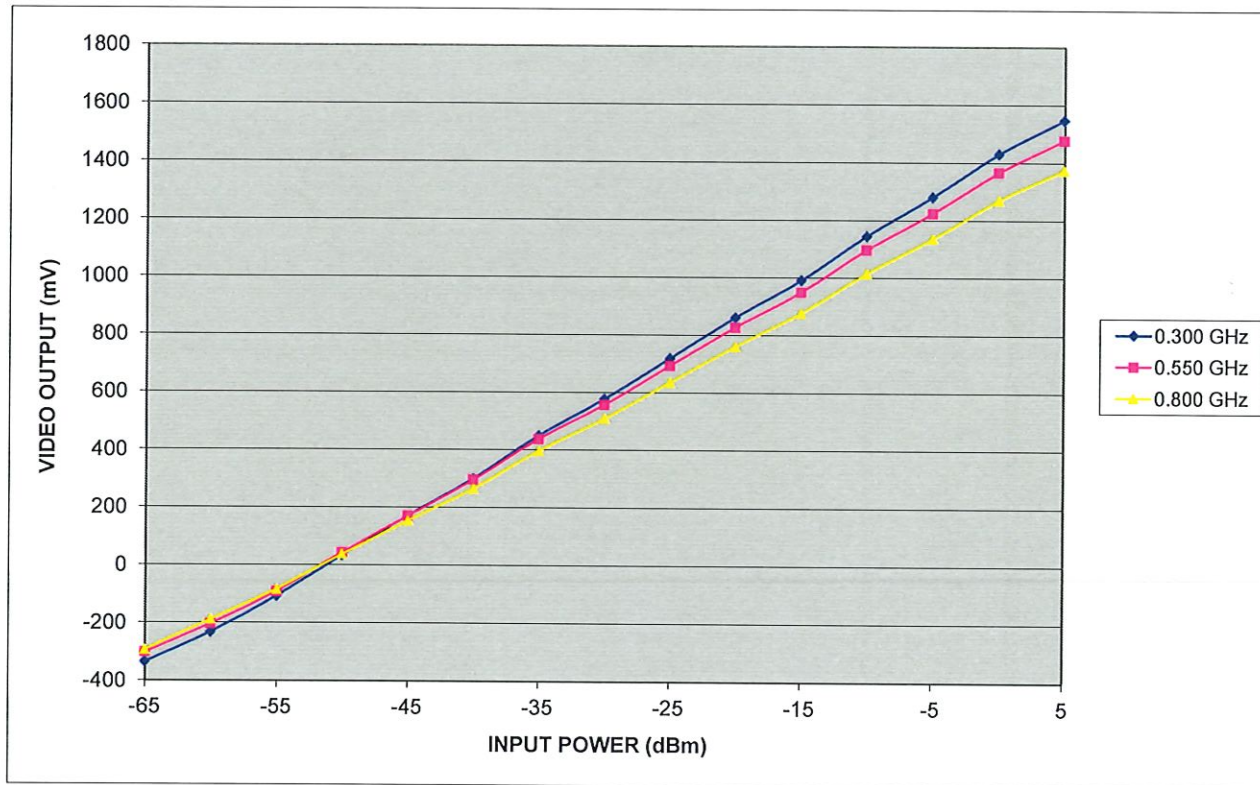
0.80 INTERCEPT (mV) 1248
 SLOPE (mV/dB) 24.15
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.81
 LINEARITY(-65 TO +5dBm) ± 1.38
 FREQUENCY FLATNESS ± 3.46

TSS 95C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.35V

	-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	-232	-108	34	172	300	450	577	719	862	991	1144	1280	1429	1546	Measured Value (mV)
0.30 Error (mV)	35	1	-11	-6	-6	-15	-1	-11	-7	-1	-9	8	6	18	-2	Error (mV)
0.30 Limited If Output (dBm)	-16.89	-16.25	-15.98	-15.85	-15.78	-15.73	-15.70	-15.69	-15.68	-15.68	-15.69	-15.69	-15.69	-15.69	-15.69	Measured Value (mV)
0.55 Measured Value (mV)	-302	-204	-91	44	171	296	438	557	693	827	949	1096	1224	1366	1477	Measured Value (mV)
0.55 Error (mV)	36	5	-12	-7	-10	-14	-2	-12	-6	-1	-9	8	6	18	0	Error (mV)
0.55 Limited If Output (dBm)	-16.65	-16.22	-15.99	-16.86	-16.79	-16.76	-16.74	-16.75	-16.76	-16.76	-16.77	-16.77	-16.77	-16.78	-16.81	Measured Value (mV)
0.80 Measured Value (mV)	-295	-189	-84	38	154	265	396	508	635	760	876	1014	1134	1268	1373	Measured Value (mV)
0.80 Error (mV)	27	12	-4	-2	-8	-17	-6	-16	-10	-5	-10	7	7	20	5	Error (mV)
0.80 Limited If Output (dBm)	-16.54	-16.09	-15.92	-16.85	-16.82	-16.82	-16.82	-16.83	-16.83	-16.83	-16.83	-16.83	-16.84	-16.86	-16.89	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.68 dBm
 LIMITED IF OUTPUT MIN -16.89 dBm
 LIMITED IF FLATNESS ± 0.60 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4322
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1908
 SLOPE (mV/dB) 28.56
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1845
 SLOPE (mV/dB) 27.36
 LIMITED IF OUTPUT (dBm)

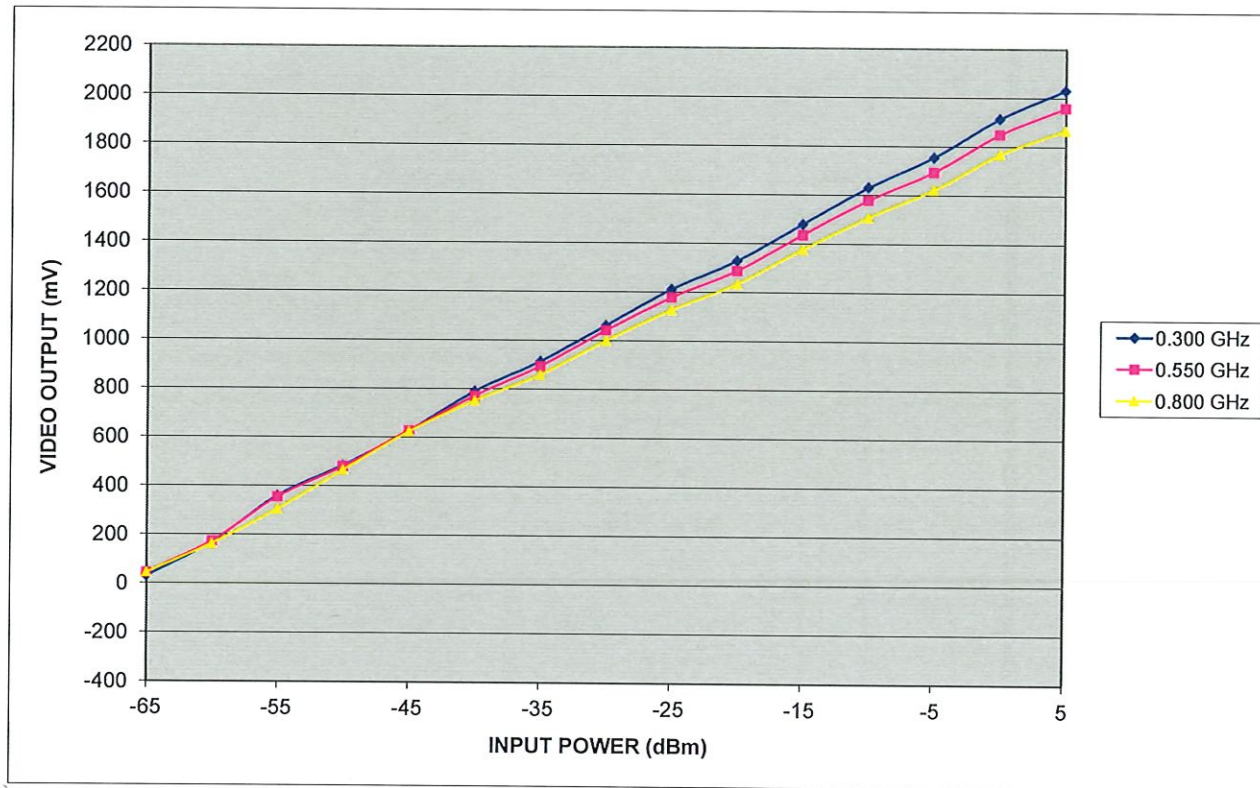
0.80 INTERCEPT (mV) 1765
 SLOPE (mV/dB) 26.16
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.40
 LINEARITY(-65 TO +5dBm) ± 1.40
 FREQUENCY FLATNESS ± 3.29

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
Measured Value (mV)	30	168	358	484	625	789	912	1062	1210	1327	1479	1631	1754	1914	2031	
Error (mV)	-22	-27	21	3	2	23	4	10	16	-10	-1	8	-12	6	-21	
Measured Value (mV)	-15.72	-15.68	-15.71	-15.76	-15.83	-15.93	-15.98	-15.94	-15.94	-15.96	-15.97	-15.98	-15.99	-15.99	-15.99	
Measured Value (mV)	43	171	354	479	627	771	892	1041	1177	1288	1436	1578	1694	1849	1958	
Error (mV)	-23	-32	14	3	14	21	5	17	16	-10	2	7	-14	4	-24	
Measured Value (mV)	-15.67	-15.64	-15.65	-16.73	-15.83	-15.83	-15.81	-15.86	-15.91	-15.93	-15.93	-15.92	-15.92	-15.92	-15.94	
Measured Value (mV)	43	162	303	465	624	751	857	998	1125	1232	1375	1507	1621	1767	1866	
Error (mV)	-21	-33	-22	8	37	33	8	18	14	-9	2	4	-13	2	-29	
Measured Value (mV)	-15.66	-15.64	-15.65	-15.81	-15.86	-15.93	-15.82	-15.80	-15.86	-15.88	-15.87	-15.87	-15.88	-15.92	-15.99	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.64 dBm
 LIMITED IF OUTPUT MIN -15.99 dBm
 LIMITED IF FLATNESS ± 0.18 dBm