

LOG TRANSFER WITH FREQUENCY @ 25 °C

MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4296  
 TESTED BY: H. HAHN  
 DATE: 5/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV)    1583  
 SLOPE (mV/dB)    27.85  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1517  
 SLOPE (mV/dB)    26.39  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1415  
 SLOPE (mV/dB)    24.57  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.80  
 LINEARITY(-65 TO +5dBm)    ± 0.98  
 FREQUENCY FLATNESS    ± 3.45

TSS    25C  
 -65dBm MAX

OUTPUT VOLTAGE    25C  
 2.7V MAX

INPUT VSWR  
 2:1 MAX @ 25C    1.19:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C    1.45:1

VIDEO RISE TIME  
 25 nS MAX @ 25C

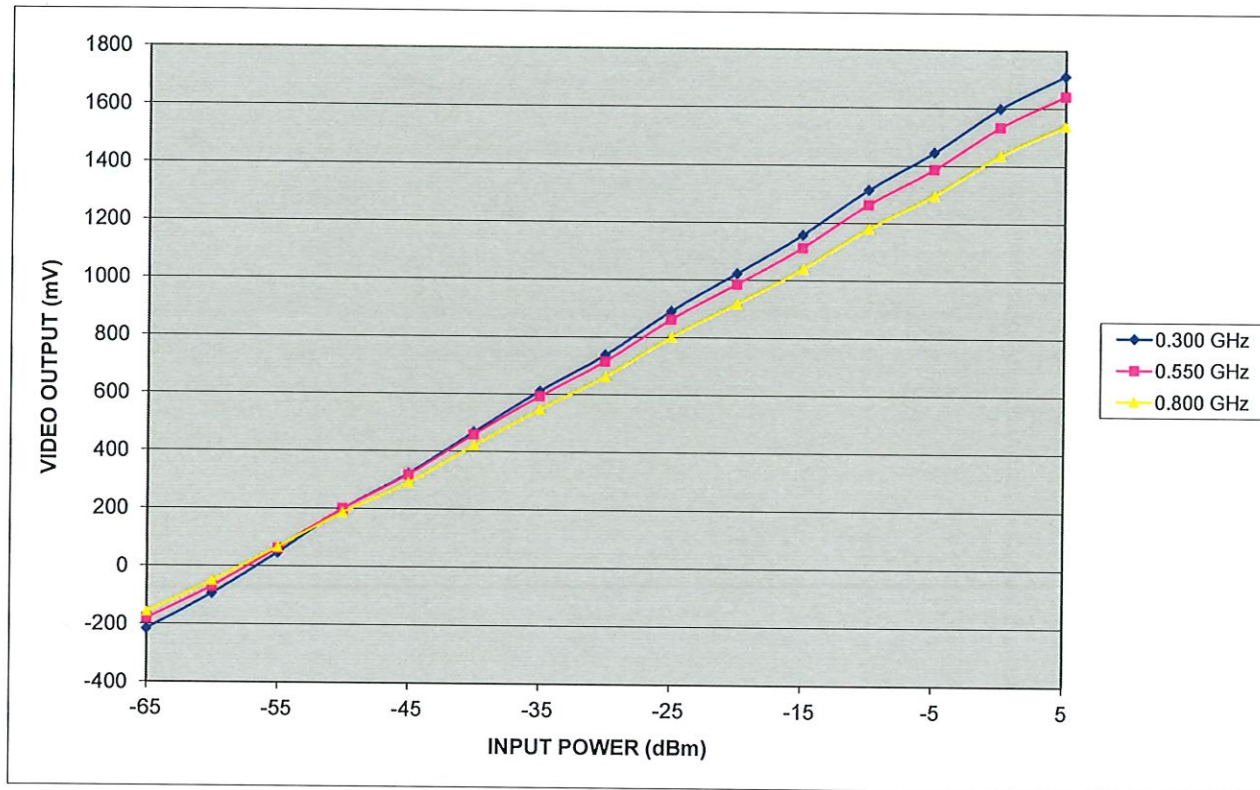
VIDEO FALL TIME  
 80 nS MAX @ 25C

PROPAGATION DELAY  
 40 nS MAX @ 25C

+5 V @ 70 mA MAX

-5.2 V @ 200 mA MAX

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-217	-94	47	199	322	467	610	737	891	1022	1157	1314	1444	1697	1711	Measured Value (mV)
0.30 Error (mV)	11	-6	-4	9	-8	-1	2	-10	4	-4	-8	10	1	15	-11	Error (mV)
0.30 Limited If Output (dBm)	-16.79	-16.47	-16.36	-16.29	-16.24	-16.20	-16.18	-16.17	-16.17	-16.17	-16.18	-16.19	-16.19	-16.20	-16.20	Limited If Output (dBm)
0.55 Measured Value (mV)	-181	-71	61	200	319	460	592	714	862	984	1113	1264	1386	1532	1640	Measured Value (mV)
0.55 Error (mV)	18	-4	-4	2	-10	-2	-1	-11	5	-5	-8	11	1	15	-8	Error (mV)
0.55 Limited If Output (dBm)	-16.68	-16.48	-16.35	-16.26	-16.19	-16.17	-16.20	-16.21	-16.22	-16.23	-16.24	-16.24	-16.24	-16.25	-16.27	Limited If Output (dBm)
0.80 Measured Value (mV)	-158	-51	65	187	291	421	547	662	800	917	1039	1180	1296	1435	1538	Measured Value (mV)
0.80 Error (mV)	24	8	2	0	-18	-11	-8	-16	0	-7	-7	11	4	20	0	Error (mV)
0.80 Limited If Output (dBm)	-16.57	-16.38	-16.31	-16.27	-16.24	-16.21	-16.22	-16.25	-16.27	-16.28	-16.28	-16.28	-16.28	-16.30	-16.34	Limited If Output (dBm)



LIMITED IF OUTPUT MAX    -16.17 dBm  
 LIMITED IF OUTPUT MIN    -16.79 dBm  
 LIMITED IF FLATNESS    ± 0.31 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4296  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

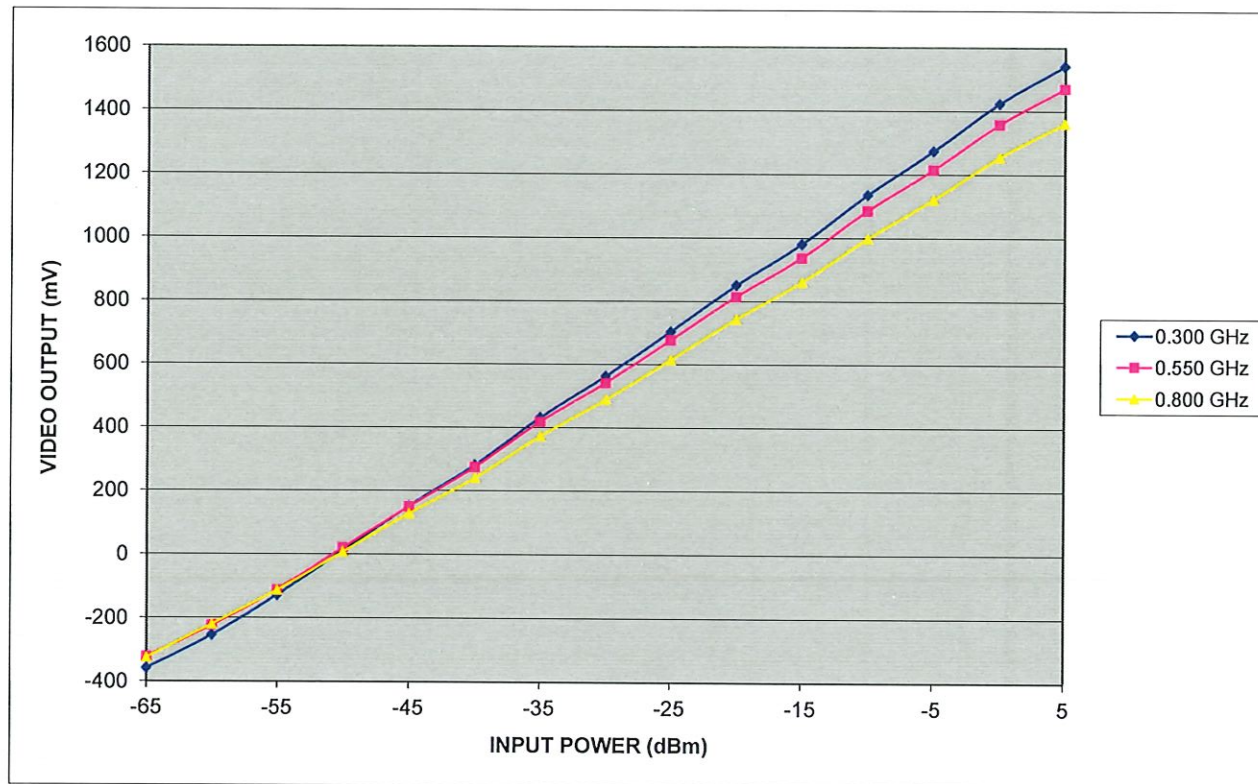
0.30 INTERCEPT (mV)    1404  
 SLOPE (mV/dB)    27.68  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1339  
 SLOPE (mV/dB)    26.17  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1235  
 SLOPE (mV/dB)    24.46  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.76  
 LINEARITY(-65 TO +5dBm)    ± 1.49  
 FREQUENCY FLATNESS    ± 3.60

-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
-358	-254	-129	11	152	281	432	582	704	850	980	1135	1273	1423	1541		Measured Value (mV)
37	2	-11	-9	-6	-16	-3	-11	-8	0	-9	8	7	19	-2		Error (mV)
-17.15	-16.48	-16.21	-16.07	-15.99	-16.93	-15.89	-15.88	-15.87	-15.87	-15.88	-15.88	-15.89	-15.89	-15.89		Measured Value (mV)
-323	-224	-112	21	150	275	418	541	677	814	937	1086	1215	1357	1470		Measured Value (mV)
39	8	-12	-9	-10	-17	-4	-12	-7	-1	-9	9	7	19	1		Error (mV)
-16.90	-16.46	-16.23	-16.08	-15.99	-15.94	-15.93	-15.94	-15.95	-15.96	-15.97	-15.97	-15.97	-15.98	-16.01		Measured Value (mV)
-326	-221	-114	7	128	240	373	488	614	743	860	998	1121	1254	1361		Measured Value (mV)
28	11	-4	-5	-7	-17	-7	-14	-10	-3	-9	7	8	19	3		Error (mV)
-16.87	-16.38	-16.16	-16.05	-16.00	-16.00	-16.01	-16.01	-16.02	-16.02	-16.03	-16.03	-16.04	-16.06	-16.09		Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.87 dBm  
 LIMITED IF OUTPUT MIN    -17.15 dBm  
 LIMITED IF FLATNESS    ± 0.64 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4296  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1382  
 SLOPE (mV/dB)    27.7  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1317  
 SLOPE (mV/dB)    26.15  
 LIMITED IF OUTPUT (dBm)

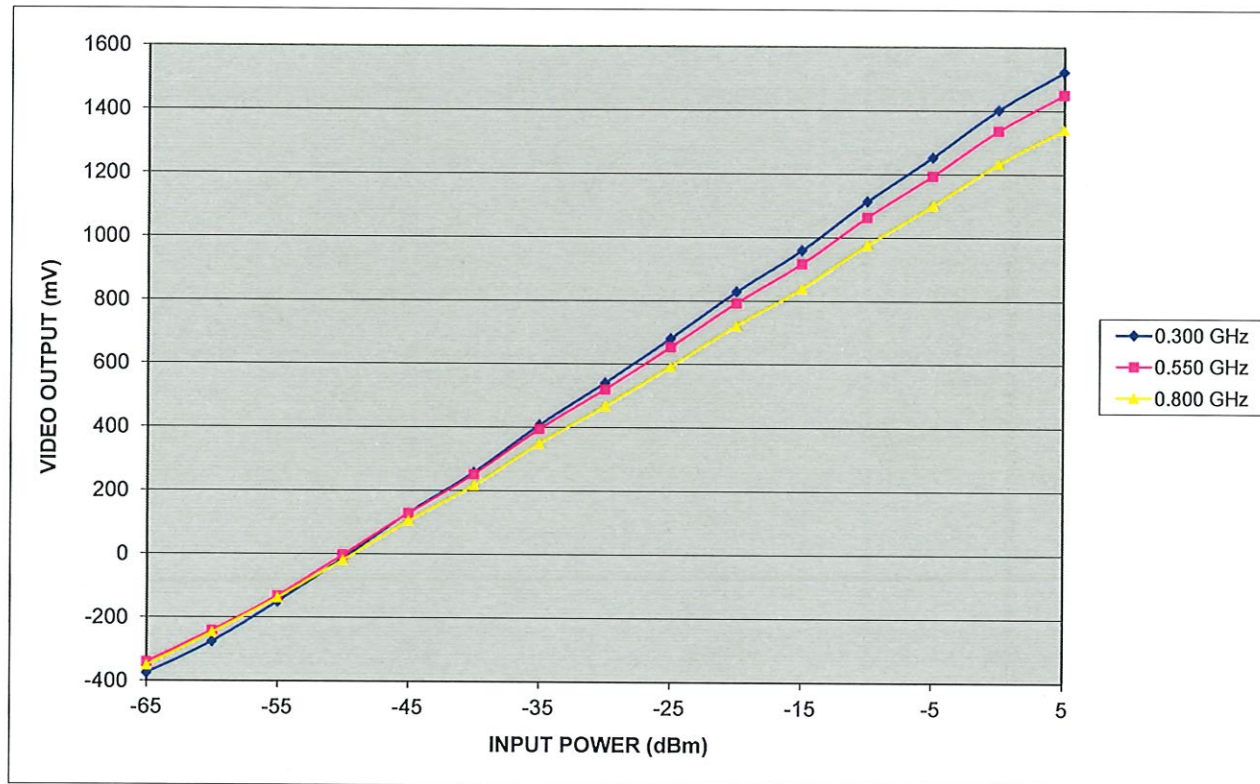
0.80 INTERCEPT (mV)    1214  
 SLOPE (mV/dB)    24.53  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.75  
 LINEARITY(-65 TO +5dBm)    ± 1.62  
 FREQUENCY FLATNESS    ± 3.62

TSS    95C  
 -65dBm MAX    -68 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.29V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-376	-276	-151	-14	129	257	407	540	681	828	959	1113	1252	1402	1521	Measured Value (mV)
0.30 Error (mV)	42	3	-10	-11	-7	-17	-5	-11	-9	0	-8	7	8	20	0	Error (mV)
0.30 Measured Value (mV)	-17.41	-16.68	-16.36	-16.21	-16.13	-16.07	-16.03	-16.01	-16.00	-16.00	-16.01	-16.01	-16.01	-16.01	-16.02	Measured Value (mV)
0.55 Measured Value (mV)	-341	-243	-133	-3	129	251	395	519	654	793	916	1063	1194	1336	1450	Measured Value (mV)
0.55 Error (mV)	42	10	-11	-12	-11	-19	-7	-13	-9	-1	-9	8	8	20	3	Error (mV)
0.55 Measured Value (mV)	-17.09	-16.61	-16.36	-16.20	-16.11	-16.06	-16.05	-16.06	-16.06	-16.07	-16.08	-16.08	-16.09	-16.10	-16.13	Measured Value (mV)
0.80 Measured Value (mV)	-352	-248	-139	-19	105	216	349	466	591	721	838	975	1099	1232	1340	Measured Value (mV)
0.80 Error (mV)	29	9	-4	-7	-5	-17	-7	-12	-10	-3	-9	7	8	18	3	Error (mV)
0.80 Measured Value (mV)	-17.14	-16.67	-16.32	-16.18	-16.12	-16.12	-16.12	-16.13	-16.14	-16.14	-16.14	-16.15	-16.16	-16.18	-16.21	Measured Value (mV)



LIMITED IF OUTPUT MAX    -16.00 dBm  
 LIMITED IF OUTPUT MIN    -17.41 dBm  
 LIMITED IF FLATNESS    ± 0.70 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4296  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1863  
 SLOPE (mV/dB)    29.21  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1795  
 SLOPE (mV/dB)    27.77  
 LIMITED IF OUTPUT (dBm)

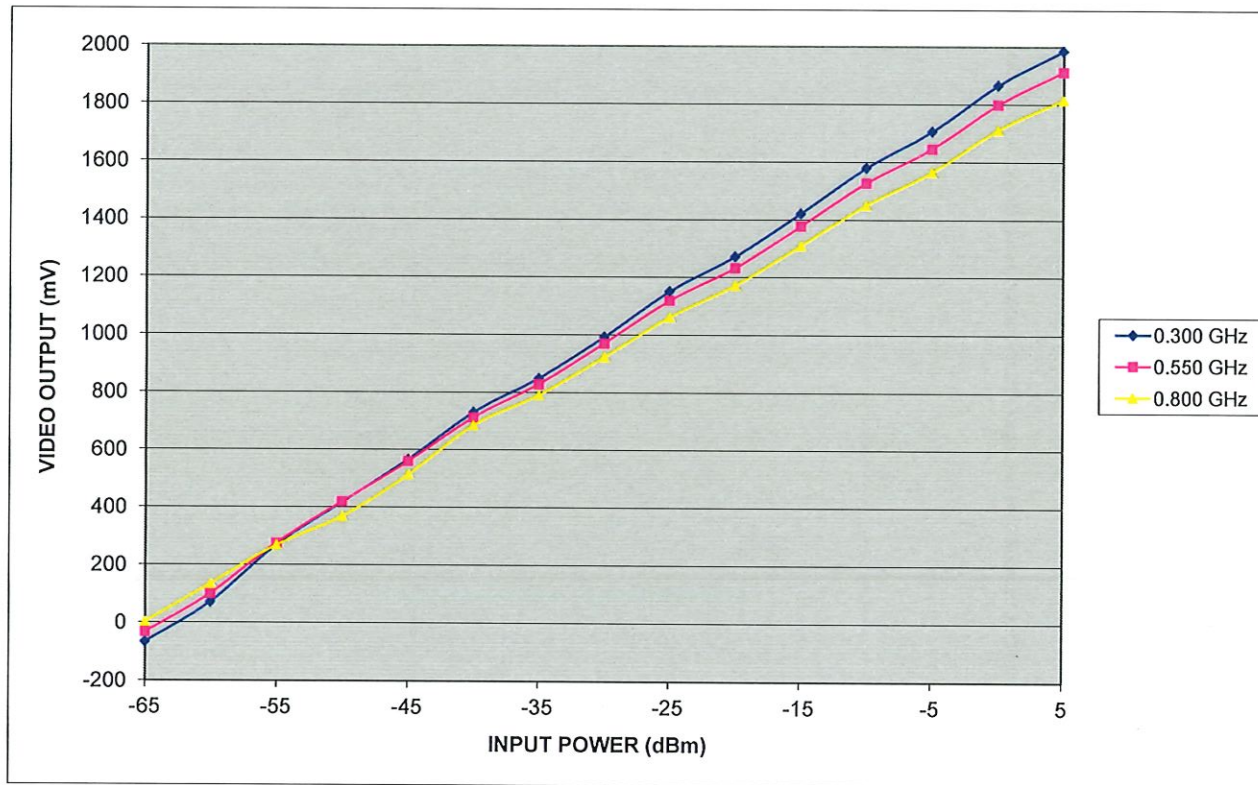
0.80 INTERCEPT (mV)    1701  
 SLOPE (mV/dB)    26.12  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.34  
 LINEARITY(-65 TO +5dBm)    ± 1.34  
 FREQUENCY FLATNESS    ± 3.40

TSS                    -54C  
 -65dBm MAX           -66dBm

OUTPUT VOLTAGE    -54C  
 2.7V MAX            2.64 V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-67	71	268	417	565	730	849	993	1151	1271	1420	1579	1705	1865	1984	Measured Value (mV)
0.30 Error (mV)	-31	-39	12	15	16	35	8	6	18	-7	-5	8	-12	2	-25	Error (mV)
0.30 Measured Value (mV)	-15.96	-15.89	-16.03	-16.10	-16.05	-16.08	-16.10	-16.08	-16.08	-16.11	-16.12	-16.13	-16.14	-16.14	-16.15	Measured Value (mV)
0.55 Measured Value (mV)	-34	100	274	419	559	712	828	970	1119	1232	1377	1526	1644	1799	1911	Measured Value (mV)
0.55 Error (mV)	-24	-30	6	12	13	27	4	8	17	-8	-2	9	-12	4	-23	Error (mV)
0.55 Measured Value (mV)	-15.90	-15.91	-15.95	-15.98	-16.03	-16.09	-16.04	-16.03	-16.07	-16.09	-16.10	-16.09	-16.09	-16.11	-16.12	Measured Value (mV)
0.80 Measured Value (mV)	2	134	268	388	512	685	790	922	1061	1170	1308	1449	1564	1710	1814	Measured Value (mV)
0.80 Error (mV)	-1	0	4	-26	-13	29	4	5	13	-8	-1	9	-7	9	-17	Error (mV)
0.80 Measured Value (mV)	-15.89	-15.87	-15.91	-15.95	-15.93	-16.07	-16.05	-16.03	-16.06	-16.07	-16.07	-16.06	-16.06	-16.08	-16.15	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.87 dBm  
 LIMITED IF OUTPUT MIN    -16.15 dBm  
 LIMITED IF FLATNESS    ± 0.14 dBm