

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4358  
 TESTED BY: H. HAHN  
 DATE: 13/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 INTERCEPT (mV)	1632															Measured Value (mV)
SLOPE (mV/dB)	27.65															Error (mV)
LIMITED IF OUTPUT (dBm)																Measured Value (mV)
0.55 INTERCEPT (mV)	1568															Measured Value (mV)
SLOPE (mV/dB)	26.26															Error (mV)
LIMITED IF OUTPUT (dBm)																Measured Value (mV)
0.80 INTERCEPT (mV)	1475															Measured Value (mV)
SLOPE (mV/dB)	24.58															Error (mV)
LIMITED IF OUTPUT (dBm)																Measured Value (mV)
LINEARITY(-60 TO 0dBm)	± 0.81															
LINEARITY(-65 TO +5dBm)	± 0.81															
FREQUENCY FLATNESS	± 3.23															

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.5V

INPUT VSWR 2:1 MAX @ 25C  
 1.14:1

IF OUTPUT VSWR 2:1 MAX @ 25C  
 1.27:1

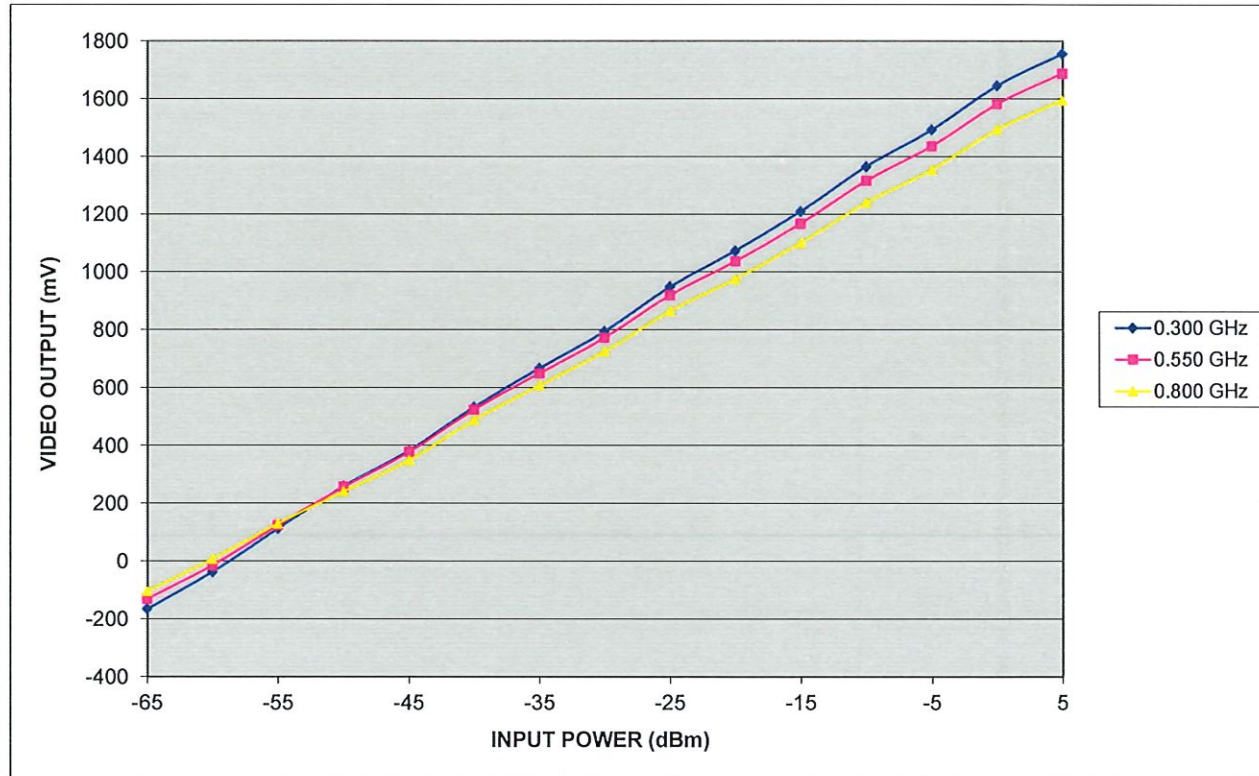
VIDEO RISE TIME 25 nS MAX @ 25C  
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C  
 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C  
 12 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.16 dBm  
 LIMITED IF OUTPUT MIN -16.64 dBm  
 LIMITED IF FLATNESS ± 0.24 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4358  
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Frequency

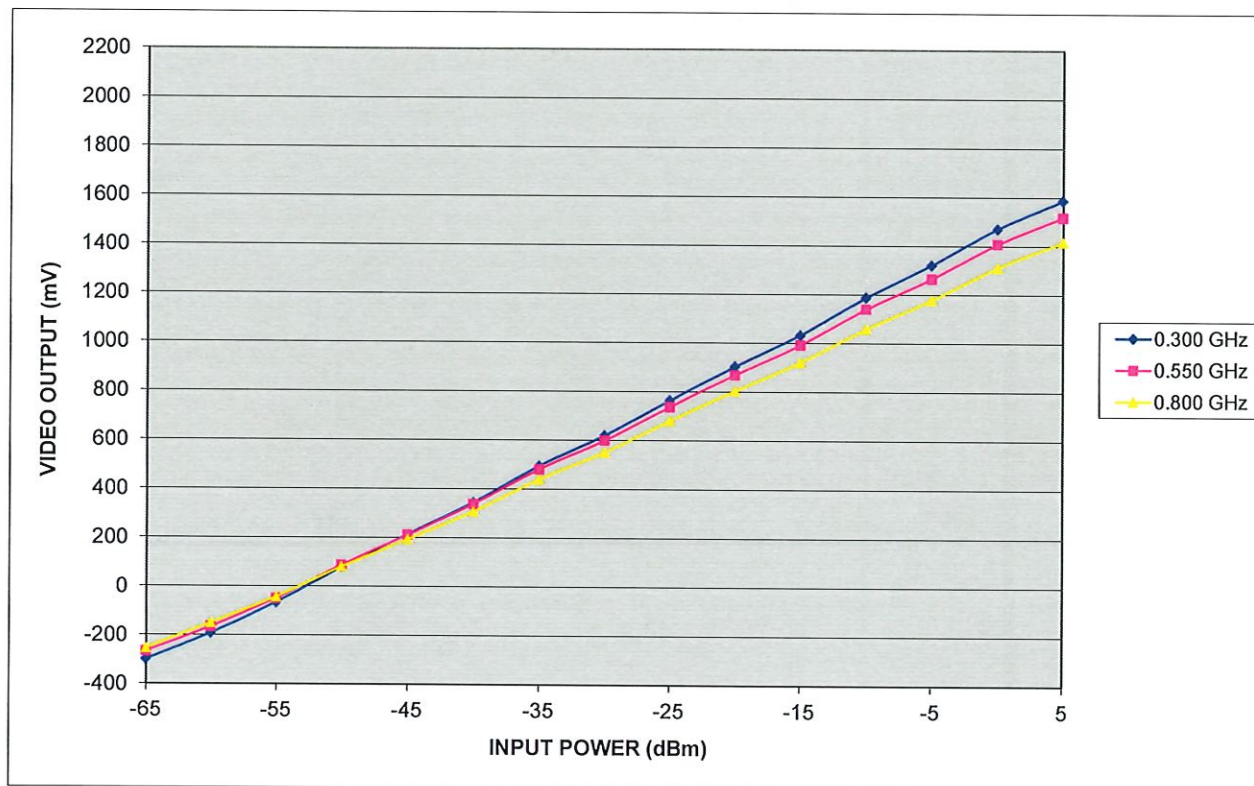
0.30 INTERCEPT (mV) 1453  
 SLOPE (mV/dB) 27.43  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1391  
 SLOPE (mV/dB) 26  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1292  
 SLOPE (mV/dB) 24.22  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.79  
 LINEARITY(-65 TO +5dBm) ± 1.23  
 FREQUENCY FLATNESS ± 3.40

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-300	-192	-66	79	212	343	494	619	763	904	1033	1187	1321	1471	1586	Measured Value (mV)
0.30 Error (mV)	30	0	-11	-2	-6	-13	0	-11	-4	-1	-9	8	5	18	-4	Error (mV)
0.30 Limited IF Output (dBm)	-16.89	-16.32	-16.08	-16.97	-15.90	-15.85	-15.82	-15.81	-15.80	-15.81	-15.81	-15.82	-15.82	-15.82	-15.83	Measured Value (mV)
0.55 Measured Value (mV)	-267	-166	-50	87	211	338	480	599	737	869	992	1140	1266	1408	1518	Measured Value (mV)
0.55 Error (mV)	32	3	-11	-4	-10	-12	0	-12	-3	-2	-9	9	5	17	-3	Error (mV)
0.55 Limited IF Output (dBm)	-16.69	-16.30	-16.09	-16.97	-15.89	-15.85	-15.85	-15.86	-15.87	-15.88	-15.88	-15.88	-15.89	-15.90	-15.92	Measured Value (mV)
0.80 Measured Value (mV)	-256	-150	-45	81	192	307	438	550	679	803	920	1058	1177	1311	1416	Measured Value (mV)
0.80 Error (mV)	27	11	-5	0	-10	-16	-6	-16	-7	-4	-9	8	6	19	3	Error (mV)
0.80 Limited IF Output (dBm)	-16.67	-16.19	-16.04	-16.96	-15.93	-15.92	-15.92	-15.94	-15.95	-15.95	-15.95	-15.95	-15.96	-15.97	-16.00	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.80 dBm  
 LIMITED IF OUTPUT MIN -16.89 dBm  
 LIMITED IF FLATNESS ± 0.54 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4358  
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 DATE: 13/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1432  
 SLOPE (mV/dB)    27.44  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1370  
 SLOPE (mV/dB)    26.01  
 LIMITED IF OUTPUT (dBm)

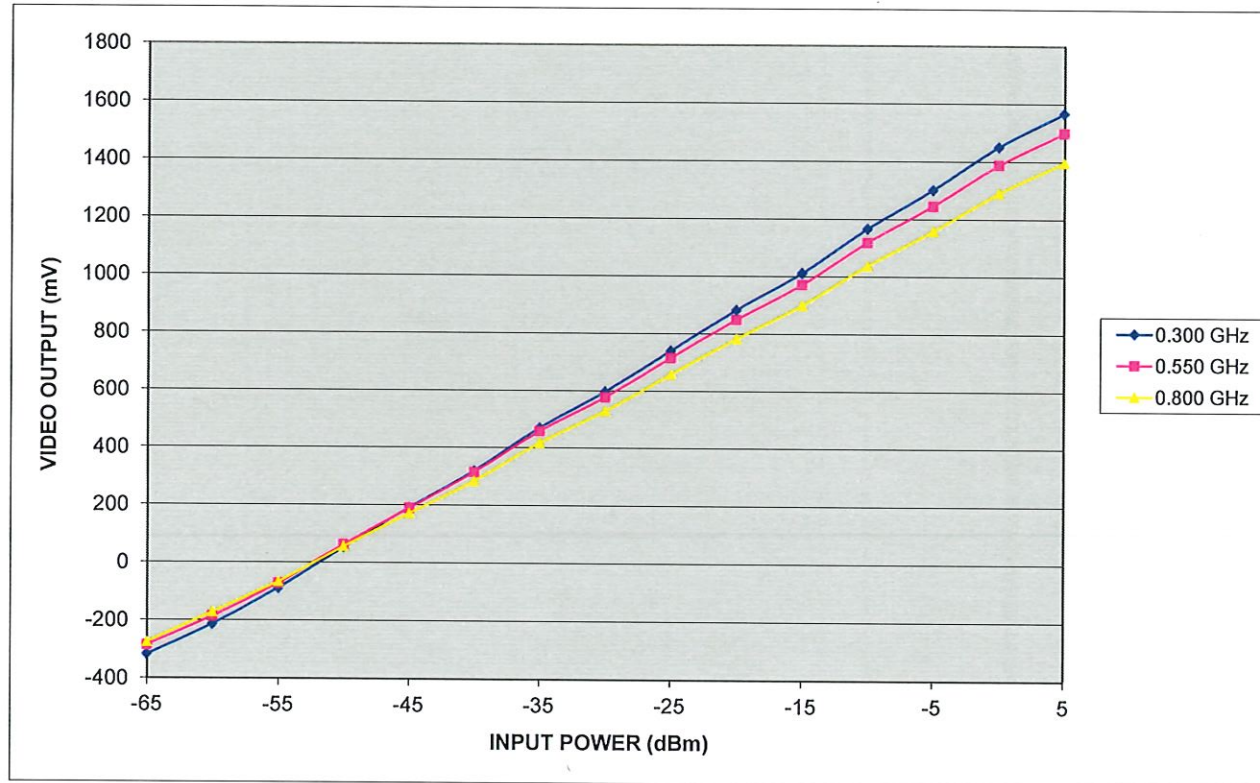
0.80 INTERCEPT (mV)    1271  
 SLOPE (mV/dB)    24.24  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.79  
 LINEARITY(-65 TO +5dBm)    ± 1.33  
 FREQUENCY FLATNESS    ± 3.42

TSS    95C  
 -65dBm MAX    -67 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.54V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-318	-213	-88	55	191	320	471	598	740	883	1012	1166	1301	1450	1567	Measured Value (mV)
0.30 Error (mV)	34	1	-11	-5	-6	-14	-1	-11	-6	-1	-9	8	6	18	-3	Error (mV)
0.30 Limited If Output (dBm)	-17.19	-16.56	-16.30	-16.17	-16.10	-16.05	-16.02	-16.01	-16.00	-16.00	-16.00	-16.01	-16.01	-16.01	-16.01	Limited If Output (dBm)
0.55 Measured Value (mV)	-286	-186	-72	64	190	315	458	578	715	848	971	1118	1245	1388	1499	Measured Value (mV)
0.55 Error (mV)	34	4	-11	-6	-10	-14	-1	-12	-5	-1	-9	9	6	18	-1	Error (mV)
0.55 Limited If Output (dBm)	-16.97	-16.53	-16.30	-16.18	-16.09	-16.05	-16.04	-16.05	-16.06	-16.07	-16.07	-16.07	-16.08	-16.08	-16.11	Limited If Output (dBm)
0.80 Measured Value (mV)	-277	-172	-67	57	171	284	417	529	657	782	899	1036	1157	1290	1396	Measured Value (mV)
0.80 Error (mV)	28	11	-5	-2	-9	-17	-6	-15	-8	-4	-9	8	7	19	4	Error (mV)
0.80 Limited If Output (dBm)	-16.85	-16.42	-16.25	-16.16	-16.12	-16.12	-16.12	-16.13	-16.13	-16.14	-16.14	-16.14	-16.15	-16.16	-16.19	Limited If Output (dBm)



LIMITED IF OUTPUT MAX    -16.00 dBm  
 LIMITED IF OUTPUT MIN    -17.19 dBm  
 LIMITED IF FLATNESS    ± 0.60 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4358  
 TESTED BY: H. HAHN  
 DATE: 13/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1939  
 SLOPE (mV/dB) 28.87  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1878  
 SLOPE (mV/dB) 27.79  
 LIMITED IF OUTPUT (dBm)

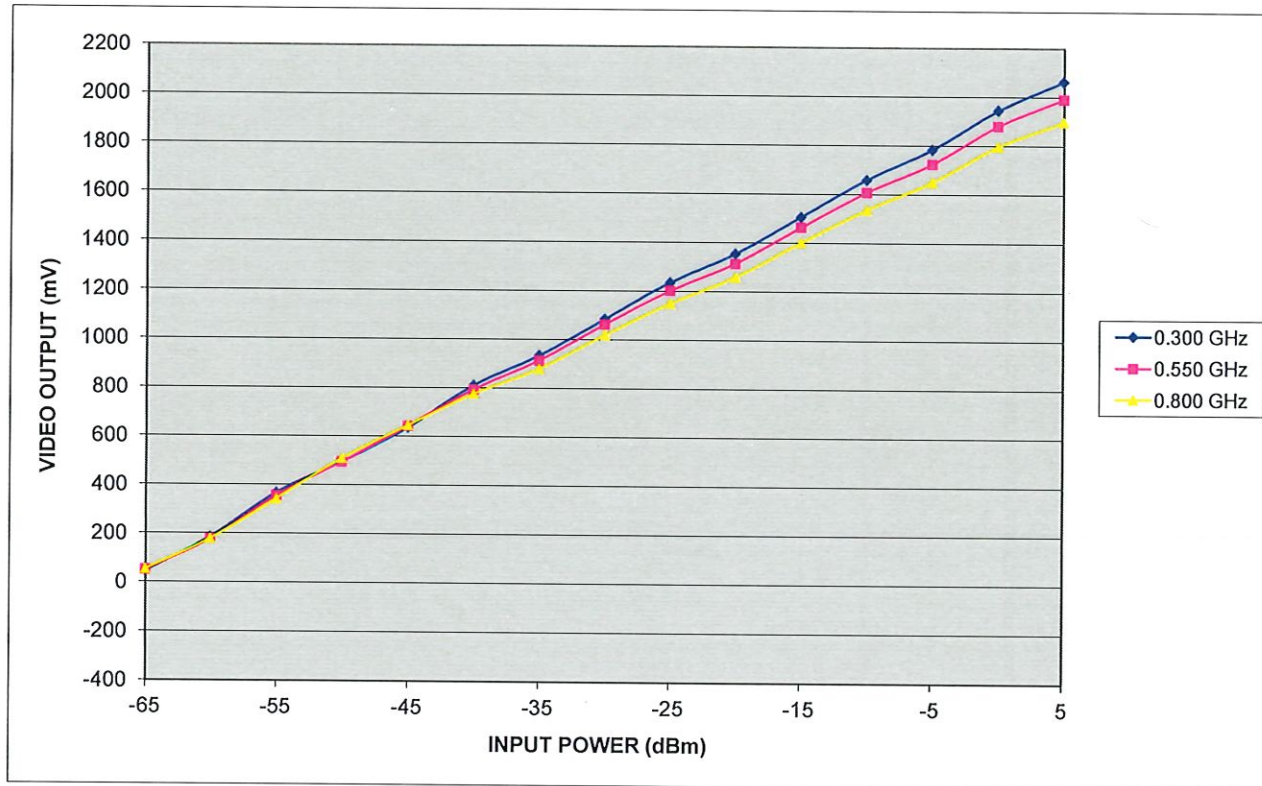
0.80 INTERCEPT (mV) 1793  
 SLOPE (mV/dB) 26.27  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.49  
 LINEARITY(-65 TO +5dBm) ± 1.49  
 FREQUENCY FLATNESS ± 3.32

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	45	185	367	494	636	810	933	1084	1235	1353	1505	1659	1783	1944	2063	
0.30 Error (mV)	-17	-22	16	-1	-4	26	5	11	17	-9	-1	8	-12	5	-21	
0.30 Measured Value (mV)	-15.78	-15.72	-15.79	-15.86	-15.91	-16.01	-16.03	-16.00	-16.01	-16.03	-16.05	-16.06	-16.06	-16.06	-16.06	
0.55 Measured Value (mV)	50	176	354	493	641	794	913	1063	1202	1314	1463	1607	1724	1880	1991	
0.55 Error (mV)	-22	-34	5	5	14	27	8	18	18	-8	2	7	-15	2	-27	
0.55 Measured Value (mV)	-15.73	-15.70	-15.70	-15.80	-15.91	-15.82	-15.91	-15.96	-15.98	-16.00	-16.00	-15.99	-15.99	-15.99	-16.01	
0.80 Measured Value (mV)	52	178	341	508	644	775	878	1019	1149	1257	1400	1535	1650	1796	1897	
0.80 Error (mV)	-34	-39	-8	28	33	32	4	13	12	-11	1	5	-12	3	-28	
0.80 Measured Value (mV)	-15.72	-15.69	-15.76	-15.88	-15.91	-15.99	-15.93	-15.91	-15.94	-15.95	-15.94	-15.93	-15.94	-15.98	-16.05	

TSS -54C  
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.7V



LIMITED IF OUTPUT MAX -15.69 dBm  
 LIMITED IF OUTPUT MIN -16.06 dBm  
 LIMITED IF FLATNESS ± 0.19 dBm