

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4329  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1643  
 SLOPE (mV/dB) 27.84  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1578  
 SLOPE (mV/dB) 26.46  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1482  
 SLOPE (mV/dB) 24.75  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78  
 LINEARITY(-65 TO +5dBm) ± 0.78  
 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)	-167	-37	116	261	384	537	671	799	954	1080	1218	1374	1502	1656	1769	
0.30 Error (mV)	0	-10	3	10	-6	7	2	-9	7	-6	-8	10	-2	13	-13	
0.30 Limited IF Output (dBm)	-16.36	-16.15	-16.10	-16.06	-16.02	-16.98	-16.97	-15.96	-16.95	-16.96	-16.97	-16.98	-16.98	-16.98	-16.99	
0.55 Measured Value (mV)	-135	-17	124	258	379	526	652	776	925	1042	1174	1324	1443	1592	1700	
0.55 Error (mV)	7	-7	1	3	-8	7	0	-8	8	-7	-7	10	-2	14	-11	
0.55 Limited IF Output (dBm)	-16.29	-16.17	-16.10	-16.01	-15.95	-15.96	-16.00	-16.01	-16.01	-16.02	-16.03	-16.02	-16.02	-16.03	-16.05	
0.80 Measured Value (mV)	-109	4	128	240	349	488	608	726	867	978	1104	1245	1359	1501	1604	
0.80 Error (mV)	18	7	7	-4	-19	-4	-8	-13	3	-8	-6	10	1	19	-2	
0.80 Limited IF Output (dBm)	-16.23	-16.11	-16.07	-16.06	-16.01	-16.95	-16.00	-16.02	-16.04	-16.06	-16.06	-16.06	-16.05	-16.06	-16.10	

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.48V

INPUT VSWR  
 2:1 MAX @ 25C 1.16:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.25:1

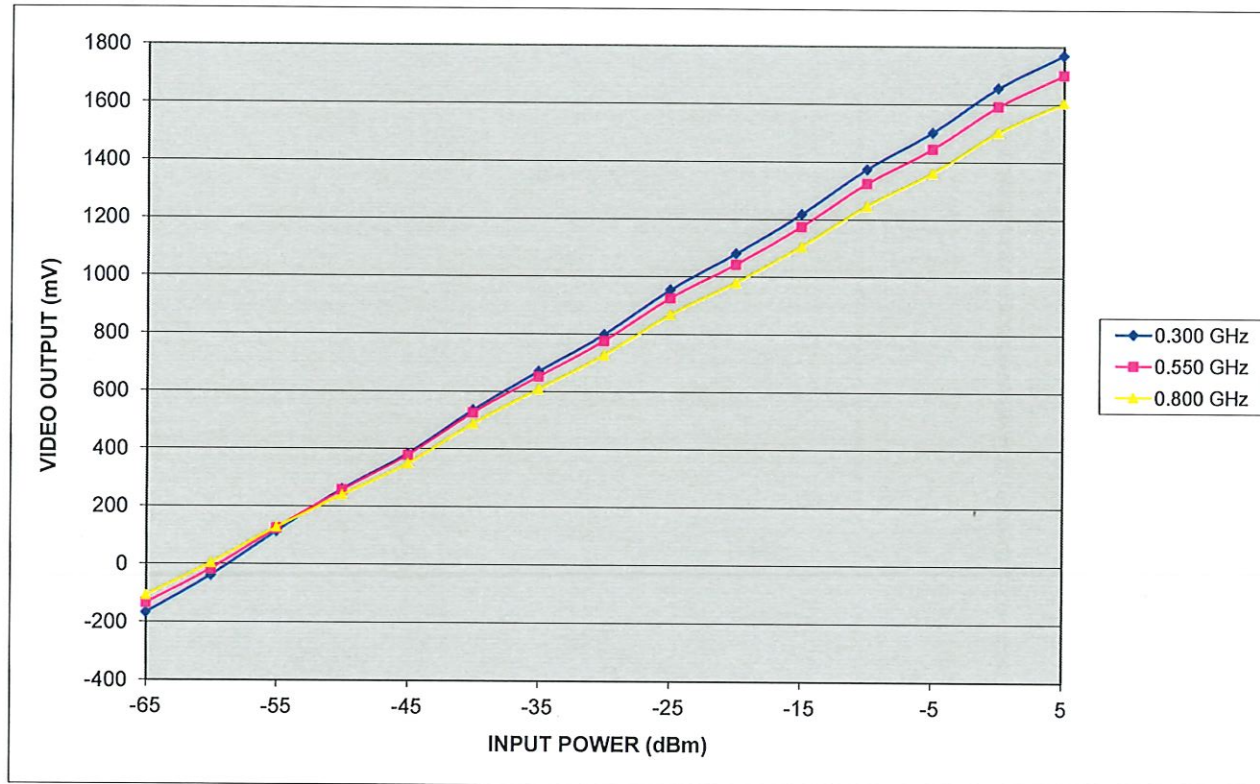
VIDEO RISE TIME  
 25 nS MAX @ 25C 18 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 44 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 16 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 117 mA



LIMITED IF OUTPUT MAX -15.95 dBm  
 LIMITED IF OUTPUT MIN -16.36 dBm  
 LIMITED IF FLATNESS ± 0.21 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4329  
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Frequency

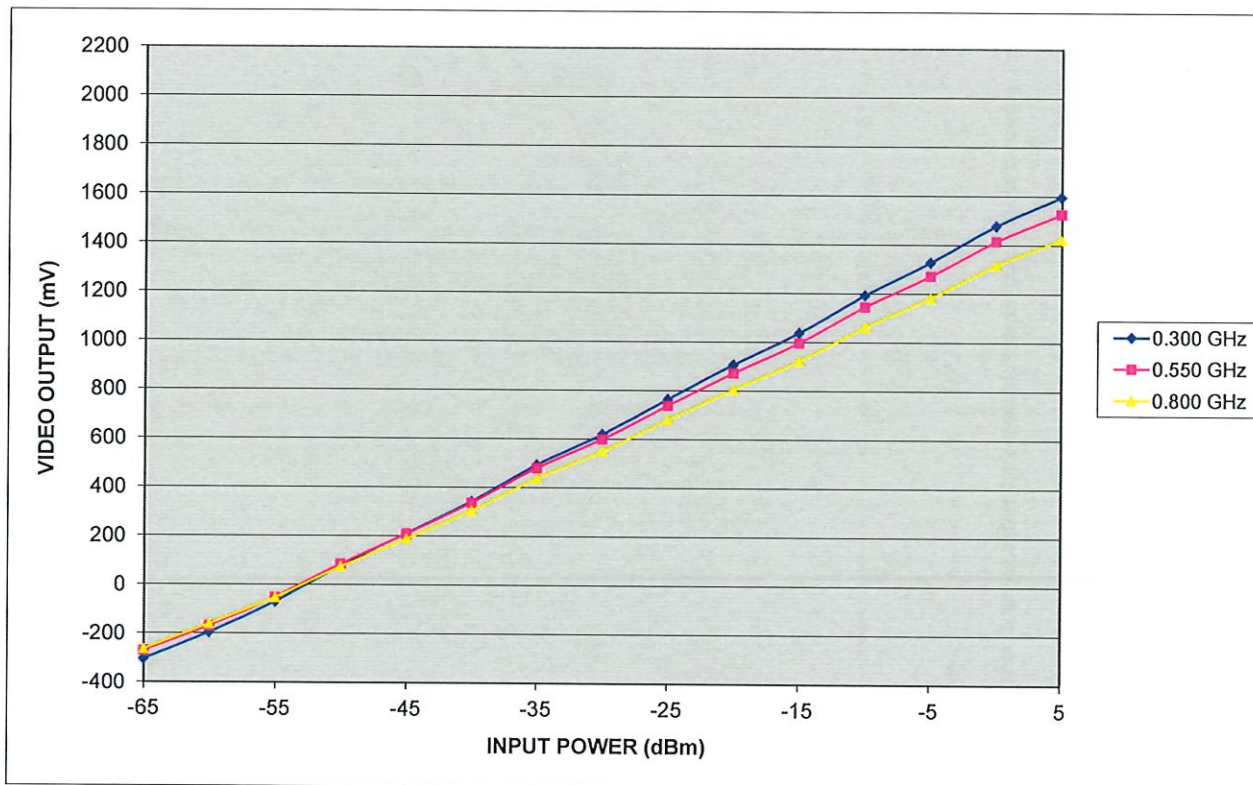
0.30 INTERCEPT (mV) 1461  
 SLOPE (mV/dB) 27.63  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1397  
 SLOPE (mV/dB) 26.18  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1297  
 SLOPE (mV/dB) 24.46  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76  
 LINEARITY(-65 TO +5dBm) ± 1.22  
 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)	-305	-197	-69	77	211	342	493	620	765	907	1037	1193	1328	1479	1596	
0.30 Error (mV)	30	0	-10	-2	-7	-13	0	-12	-5	-1	-9	8	5	18	-3	
0.30 Limited IF Output (dBm)	-16.92	-16.36	-16.13	-16.02	-15.95	-15.90	-15.87	-15.86	-15.85	-15.85	-15.86	-15.86	-15.87	-15.87	-15.87	
0.55 Measured Value (mV)	-273	-170	-53	85	209	337	480	599	739	872	996	1145	1271	1415	1527	
0.55 Error (mV)	32	3	-10	-4	-10	-13	-1	-13	-4	-2	-9	9	5	18	-2	
0.55 Limited IF Output (dBm)	-16.73	-16.34	-16.14	-16.02	-15.93	-15.89	-15.89	-15.90	-15.91	-15.92	-15.93	-15.93	-15.93	-15.94	-15.96	
0.80 Measured Value (mV)	-265	-162	-54	74	188	304	436	548	679	804	922	1061	1181	1316	1422	
0.80 Error (mV)	27	8	-6	-1	-9	-15	-5	-15	-7	-4	-9	8	6	19	2	
0.80 Limited IF Output (dBm)	-16.65	-16.27	-16.09	-15.99	-15.96	-15.96	-15.96	-15.97	-15.98	-15.98	-15.98	-15.99	-15.99	-16.01	-16.04	



LIMITED IF OUTPUT MAX -15.85 dBm  
 LIMITED IF OUTPUT MIN -16.92 dBm  
 LIMITED IF FLATNESS ± 0.54 dBm



LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4329  
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 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1416  
 SLOPE (mV/dB) 27.57  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1354  
 SLOPE (mV/dB) 26.13  
 LIMITED IF OUTPUT (dBm)

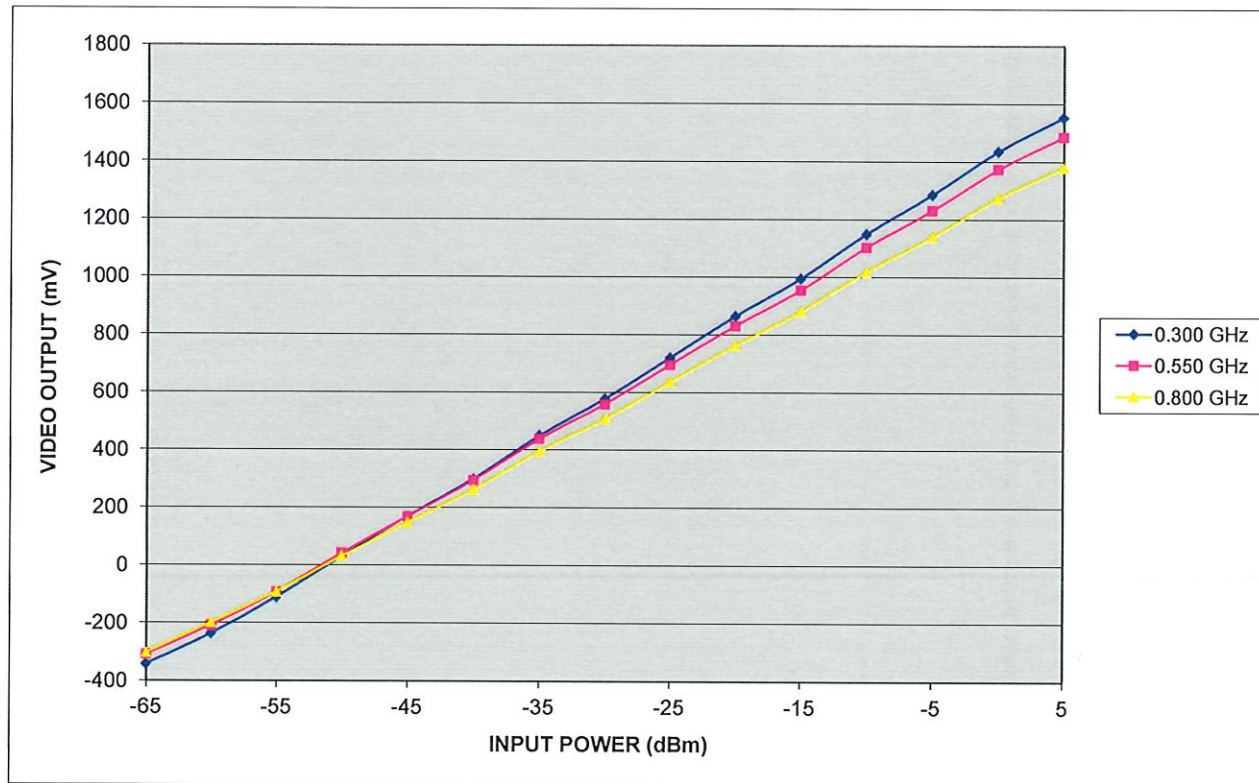
0.80 INTERCEPT (mV) 1253  
 SLOPE (mV/dB) 24.39  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77  
 LINEARITY(-65 TO +5dBm) ± 1.33  
 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)	-342	-237	-111	32	169	299	450	577	720	864	994	1148	1284	1435	1552	
0.30 Error (mV)	34	1	-10	-5	-6	-15	-2	-12	-7	-1	-9	8	6	18	-2	
0.30 Measured Value (mV)	-17.09	-16.47	-16.21	-16.09	-16.01	-15.96	-15.92	-15.91	-15.90	-15.90	-15.91	-15.91	-15.92	-15.92	-15.92	
0.55 Measured Value (mV)	-310	-209	-94	41	168	294	438	558	695	830	953	1102	1229	1372	1484	
0.55 Error (mV)	35	5	-11	-6	-10	-14	-2	-13	-6	-2	-9	9	6	18	-1	
0.55 Measured Value (mV)	-16.87	-16.44	-16.21	-16.08	-15.99	-15.95	-15.94	-15.95	-15.96	-15.97	-15.98	-15.98	-15.98	-15.99	-16.01	
0.80 Measured Value (mV)	-304	-200	-93	32	148	261	394	507	635	762	879	1017	1138	1272	1379	
0.80 Error (mV)	28	10	-5	-2	-8	-16	-6	-15	-8	-4	-9	8	7	19	3	
0.80 Measured Value (mV)	-16.79	-16.34	-16.15	-16.05	-16.01	-16.01	-16.02	-16.02	-16.03	-16.03	-16.03	-16.04	-16.04	-16.06	-16.09	

TSS 95C  
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C  
 2.7V MAX 2.32V



LIMITED IF OUTPUT MAX -15.90 dBm  
 LIMITED IF OUTPUT MIN -17.09 dBm  
 LIMITED IF FLATNESS ± 0.59 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
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 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1950  
 SLOPE (mV/dB) 28.96  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1886  
 SLOPE (mV/dB) 27.8  
 LIMITED IF OUTPUT (dBm)

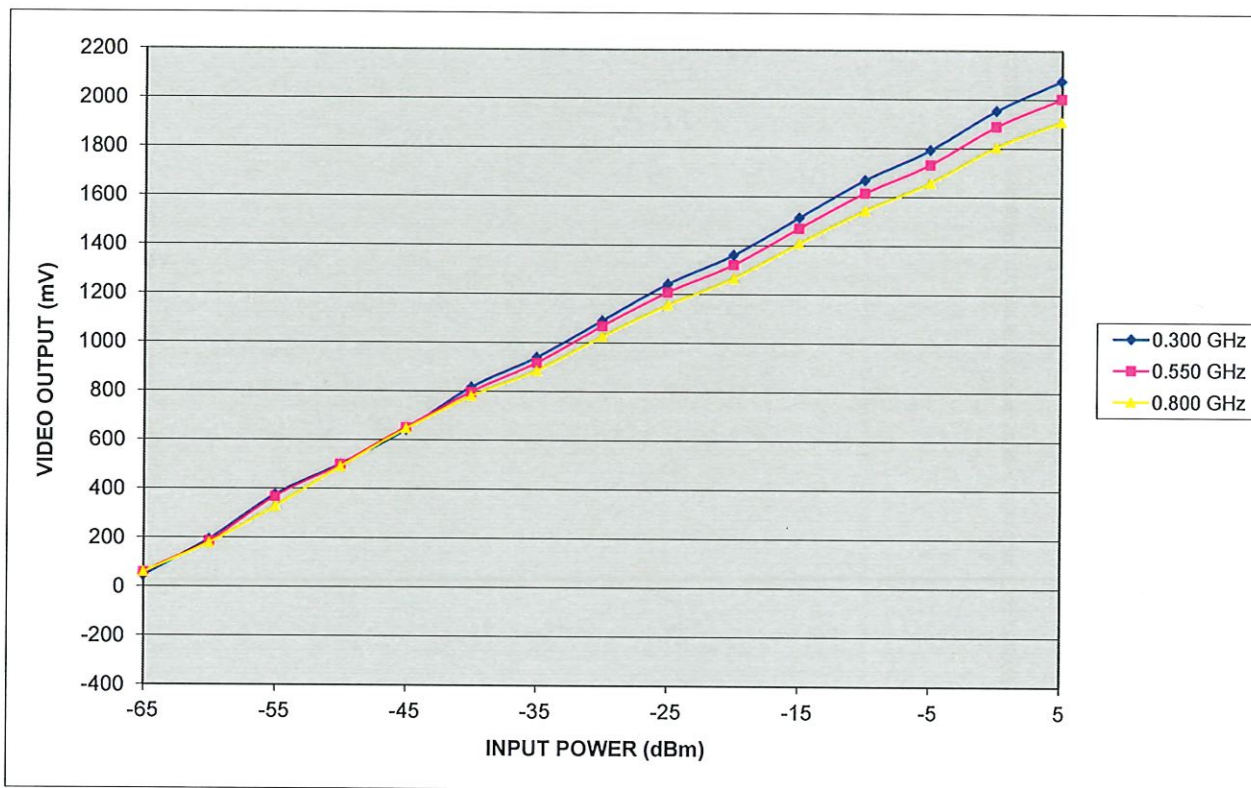
0.80 INTERCEPT (mV) 1803  
 SLOPE (mV/dB) 26.5  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.38  
 LINEARITY(-65 TO +5dBm) ± 1.38  
 FREQUENCY FLATNESS ± 3.36

	-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	193	375	500	643	818	939	1091	1242	1361	1514	1669	1793	1954	2076	
0.30 Error (mV)	-22	-19	19	-1	-4	26	3	11	17	-10	-1	9	-12	4	-19	
0.30 Measured Value (mV)	-15.42	-15.44	-15.55	-16.62	-16.66	-15.76	-15.78	-15.76	-15.77	-15.79	-15.81	-16.82	-15.83	-15.83	-15.83	
0.55 Measured Value (mV)	57	186	367	498	651	797	917	1069	1208	1321	1471	1615	1732	1889	2002	
0.55 Error (mV)	-22	-33	10	3	16	23	4	17	17	-9	2	7	-15	3	-23	
0.55 Measured Value (mV)	-15.40	-15.42	-15.46	-15.66	-15.69	-15.63	-15.65	-15.71	-15.75	-15.76	-15.77	-15.76	-15.76	-15.76	-15.77	
0.80 Measured Value (mV)	57	177	326	490	646	780	884	1025	1154	1263	1407	1543	1657	1804	1907	
0.80 Error (mV)	-23	-36	-20	12	36	37	8	17	14	-10	2	5	-14	1	-28	
0.80 Measured Value (mV)	-15.39	-15.40	-15.47	-15.65	-15.64	-15.73	-15.66	-15.65	-15.69	-15.70	-15.69	-15.69	-15.70	-15.74	-15.80	

TSS -54C  
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.39 dBm  
 LIMITED IF OUTPUT MIN -15.83 dBm  
 LIMITED IF FLATNESS ± 0.22 dBm