

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4342
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1631
 SLOPE (mV/dB) 27.51
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1568
 SLOPE (mV/dB) 26.12
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1473
 SLOPE (mV/dB) 24.43
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 0.76
 FREQUENCY FLATNESS ± 3.23

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-154	-30	121	265	387	539	671	798	952	1075	1211	1365	1492	1645	1757	
0.30 Error (mV)	2	-11	3	9	-6	8	2	-9	8	-7	-8	9	-2	13	-12	
0.30 Measured Value (mV)	-16.37	-16.08	-16.01	-15.95	-15.92	-15.88	-15.87	-15.86	-15.86	-15.87	-15.88	-15.88	-15.88	-15.88	-15.89	
0.55 Measured Value (mV)	-121	-6	133	263	384	529	652	776	923	1037	1168	1316	1435	1582	1690	
0.55 Error (mV)	9	-7	2	2	-8	7	-1	-8	8	-8	-8	10	-2	14	-9	
0.55 Measured Value (mV)	-16.29	-16.11	-16.02	-15.95	-15.89	-15.88	-15.91	-15.93	-15.93	-15.94	-15.94	-15.94	-15.93	-15.94	-15.97	
0.80 Measured Value (mV)	-102	14	140	251	358	492	608	726	865	975	1099	1239	1351	1492	1596	
0.80 Error (mV)	13	6	10	0	-16	-4	-10	-14	3	-10	-7	10	0	19	0	
0.80 Measured Value (mV)	-16.23	-16.06	-16.02	-16.02	-16.01	-15.96	-15.97	-15.99	-16.01	-16.01	-16.01	-16.00	-16.00	-16.01	-16.05	

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.06V

INPUT VSWR
 2:1 MAX @ 25C 1.15:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.35:1

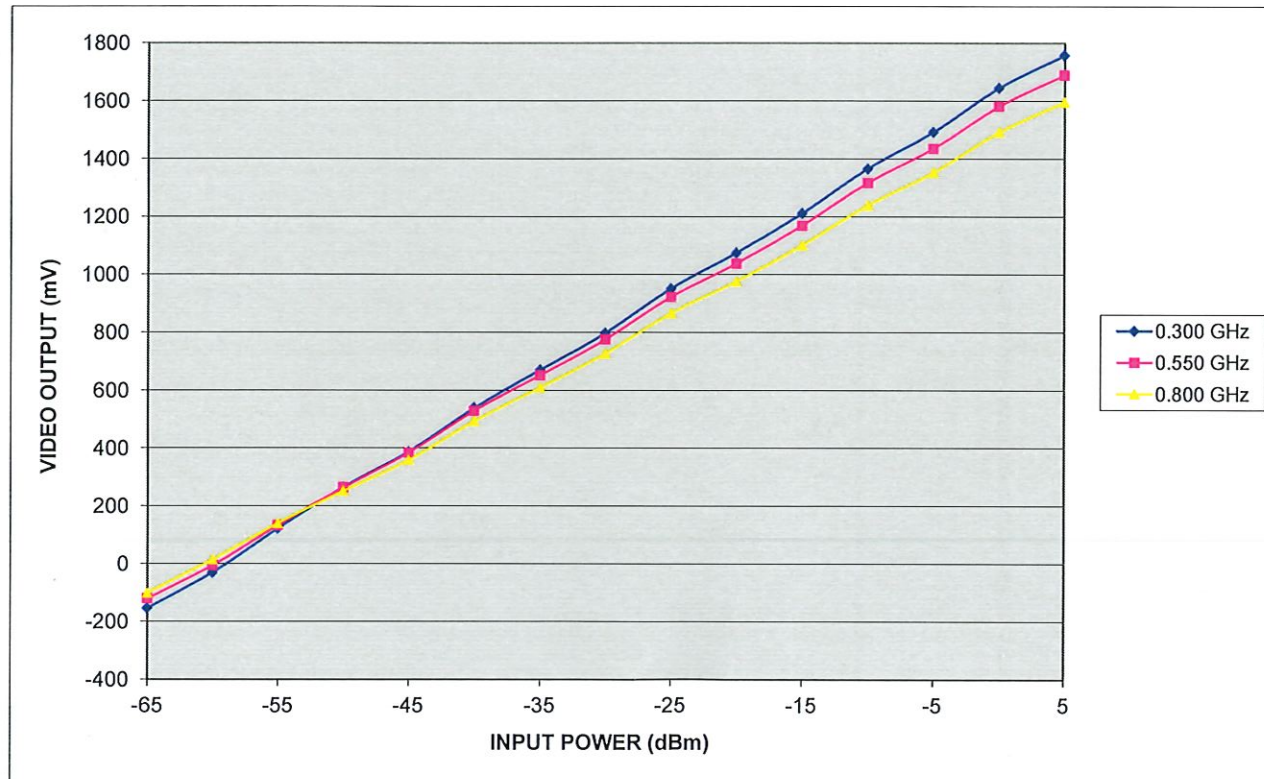
VIDEO RISE TIME
 25 nS MAX @ 25C 20 nS

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 118 mA



LIMITED IF OUTPUT MAX -15.86 dBm
 LIMITED IF OUTPUT MIN -16.37 dBm
 LIMITED IF FLATNESS ± 0.25 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
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Frequency

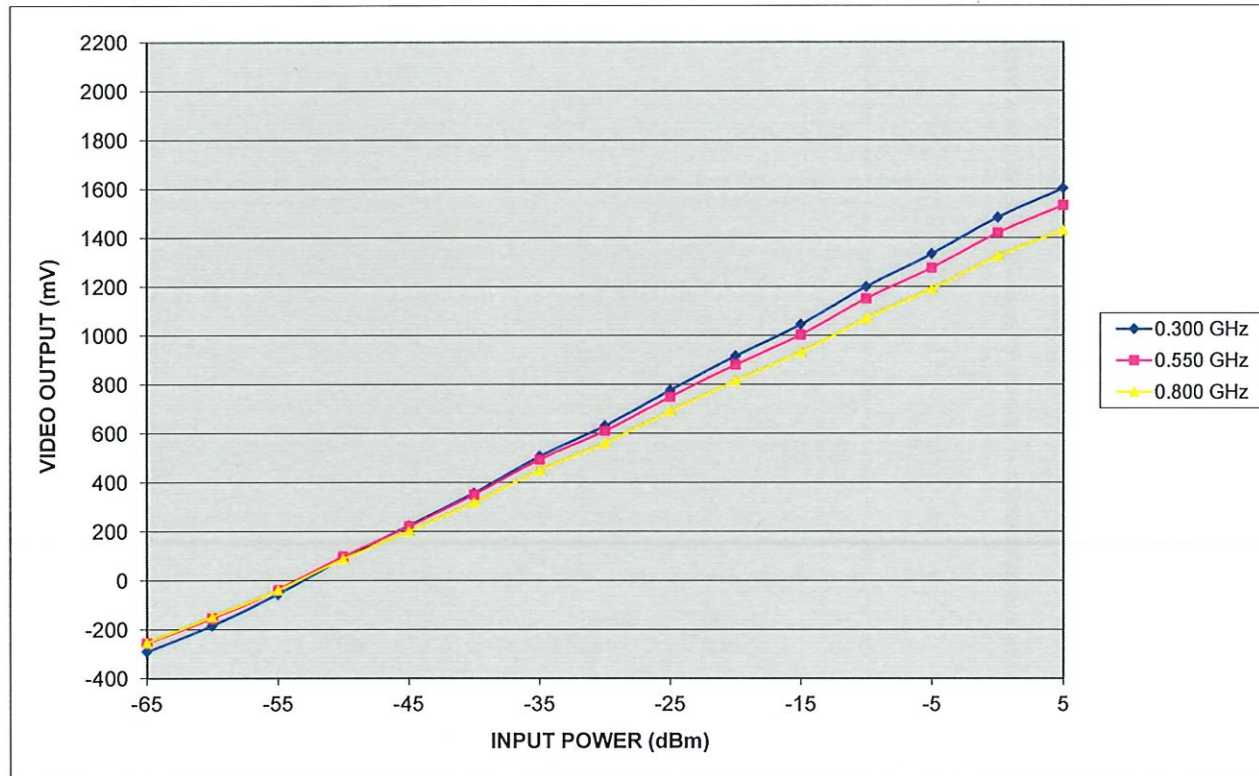
0.30 INTERCEPT (mV) 1467
 SLOPE (mV/dB) 27.5
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1403
 SLOPE (mV/dB) 26.04
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1306
 SLOPE (mV/dB) 24.4
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.71
 LINEARITY(-65 TO +5dBm) ± 1.26
 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)	-291	-186	-57	91	223	356	506	630	776	915	1045	1200	1334	1483	1602	Measured Value (mV)
0.30 Error (mV)	30	-2	-11	-1	-7	-11	2	-12	-4	-1	-10	8	4	17	-3	Error (mV)
0.30 Measured Value (mV)	-16.68	-16.03	-15.80	-16.69	-15.63	-15.58	-15.55	-15.64	-15.64	-15.54	-15.55	-15.55	-15.55	-15.55	-15.56	Measured Value (mV)
0.55 Measured Value (mV)	-256	-156	-40	98	220	350	492	609	749	880	1003	1152	1277	1420	1533	Measured Value (mV)
0.55 Error (mV)	33	3	-11	-3	-12	-11	0	-13	-3	-2	-10	9	4	17	0	Error (mV)
0.55 Measured Value (mV)	-16.39	-16.02	-15.83	-15.72	-15.65	-15.61	-15.60	-15.61	-15.62	-15.63	-15.63	-15.63	-15.63	-15.64	-15.66	Measured Value (mV)
0.80 Measured Value (mV)	-256	-151	-41	88	200	317	449	559	690	814	930	1070	1189	1324	1431	Measured Value (mV)
0.80 Error (mV)	24	7	-5	2	-8	-13	-3	-15	-6	-4	-10	8	5	17	3	Error (mV)
0.80 Measured Value (mV)	-16.37	-15.97	-15.81	-15.72	-15.70	-15.71	-15.71	-15.72	-15.72	-15.72	-15.72	-15.72	-15.73	-15.74	-15.77	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.54 dBm
 LIMITED IF OUTPUT MIN -16.58 dBm
 LIMITED IF FLATNESS ± 0.52 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
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Frequency

0.30 INTERCEPT (mV) 1445
 SLOPE (mV/dB) 27.55
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1382
 SLOPE (mV/dB) 26.07
 LIMITED IF OUTPUT (dBm)

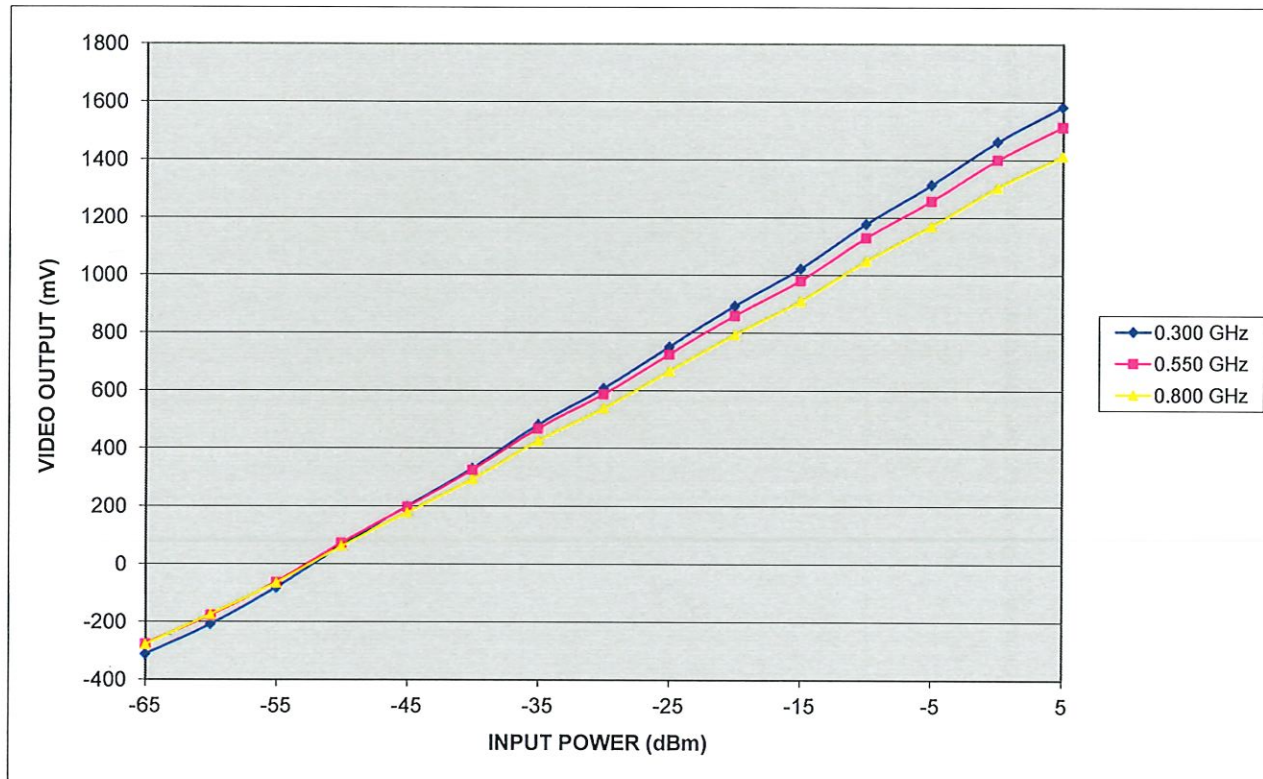
0.80 INTERCEPT (mV) 1285
 SLOPE (mV/dB) 24.46
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.70
 LINEARITY(-65 TO +5dBm) ± 1.36
 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)	-312	-209	-82	64	199	330	482	607	751	893	1022	1177	1313	1462	1582	
0.30 Error (mV)	33	-1	-12	-4	-6	-13	1	-11	-5	-1	-10	7	5	17	-1	
0.30 Measured Value (mV)	-16.76	-16.17	-15.91	-16.79	-16.72	-15.67	-16.64	-15.63	-16.62	-15.62	-15.63	-15.63	-16.64	-15.64	-15.64	
0.55 Measured Value (mV)	-277	-178	-64	73	197	325	469	587	725	859	981	1129	1256	1399	1513	
0.55 Error (mV)	36	4	-12	-5	-11	-14	-1	-13	-5	-2	-10	8	5	17	1	
0.55 Measured Value (mV)	-16.54	-16.14	-15.93	-15.81	-15.74	-15.69	-15.69	-15.69	-15.70	-15.71	-15.71	-15.71	-15.71	-15.72	-15.75	
0.80 Measured Value (mV)	-279	-176	-66	61	177	292	425	537	666	792	908	1047	1168	1302	1411	
0.80 Error (mV)	26	7	-6	0	-7	-14	-3	-14	-7	-4	-10	7	6	17	4	
0.80 Measured Value (mV)	-16.54	-16.11	-15.91	-15.81	-15.78	-15.79	-15.80	-15.80	-15.80	-15.80	-15.80	-15.80	-15.80	-15.81	-15.82	-15.85

TSS 95C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.38V



LIMITED IF OUTPUT MAX -15.62 dBm
 LIMITED IF OUTPUT MIN -16.76 dBm
 LIMITED IF FLATNESS ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
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Frequency

0.30 INTERCEPT (mV) 1923
 SLOPE (mV/dB) 28.54
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1860
 SLOPE (mV/dB) 27.32
 LIMITED IF OUTPUT (dBm)

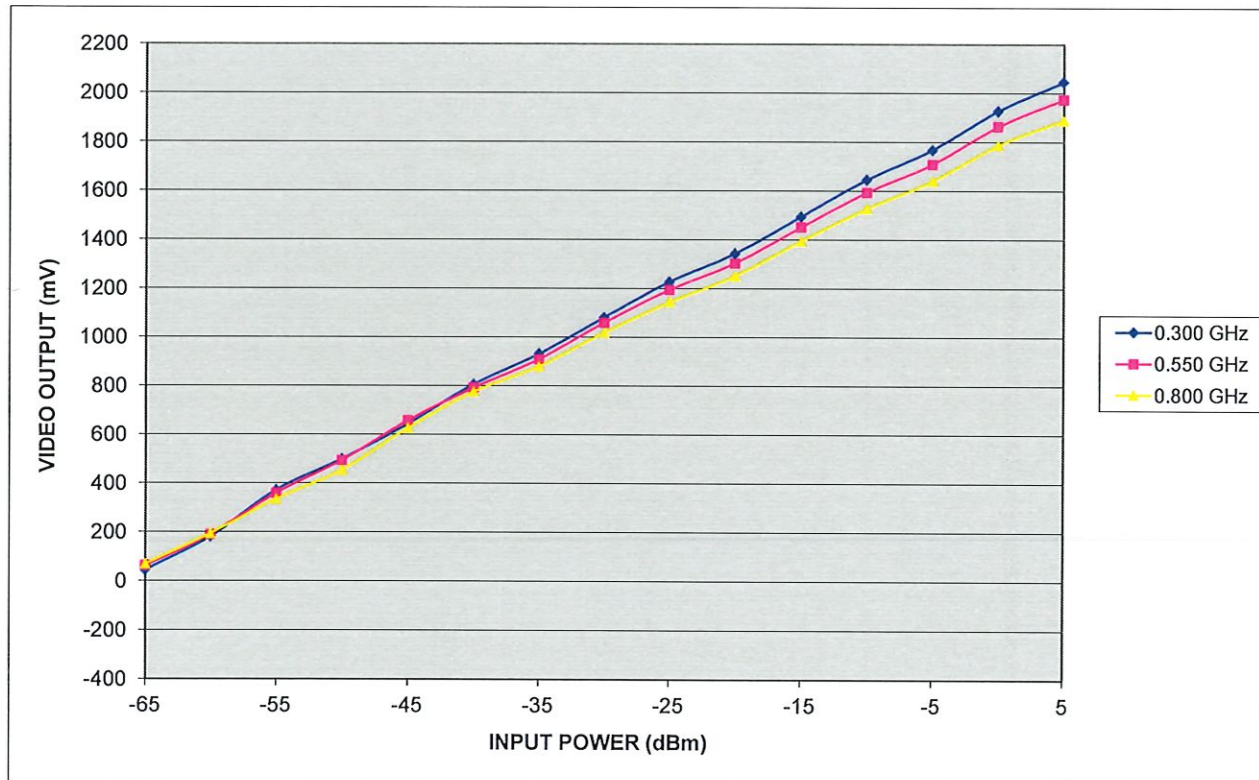
0.80 INTERCEPT (mV) 1782
 SLOPE (mV/dB) 26.14
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.50
 LINEARITY(-65 TO +5dBm) ± 1.50
 FREQUENCY FLATNESS ± 3.15

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	46	181	371	499	643	807	931	1081	1227	1343	1494	1645	1767	1926	2045	
0.30 Error (mV)	-23	-30	18	2	4	25	6	14	17	-10	-1	7	-13	3	-21	
0.30 Measured Value (mV)	-15.75	-15.62	-15.62	-15.68	-15.74	-15.78	-15.82	-15.80	-15.81	-15.84	-15.84	-15.84	-15.85	-15.85	-15.85	
0.55 Measured Value (mV)	63	189	359	494	657	792	909	1059	1193	1303	1451	1593	1708	1863	1974	
0.55 Error (mV)	-21	-32	1	0	27	25	5	18	16	-11	1	6	-16	3	-23	
0.55 Measured Value (mV)	-15.69	-15.60	-15.54	-15.60	-15.80	-15.78	-15.71	-15.74	-15.79	-15.81	-15.80	-15.79	-15.78	-15.79	-15.79	
0.80 Measured Value (mV)	69	193	334	454	626	775	878	1017	1143	1249	1392	1525	1638	1786	1887	
0.80 Error (mV)	-14	-20	-10	-21	20	39	11	19	14	-10	2	4	-13	4	-25	
0.80 Measured Value (mV)	-15.69	-15.62	-15.63	-15.66	-15.67	-15.75	-15.71	-15.69	-15.73	-15.76	-15.74	-15.73	-15.72	-15.73	-15.84	

TSS -54C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.67V



LIMITED IF OUTPUT MAX -15.54 dBm
 LIMITED IF OUTPUT MIN -15.85 dBm
 LIMITED IF FLATNESS ± 0.15 dBm