

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4307
 TESTED BY: H. HAHN
 DATE: 6/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) 1598
 SLOPE (mV/dB) 27.85
 LIMITED IF OUTPUT (dBm)

-204	-81	62	214	336	484	626	752	907	1036	1172	1329	1458	1612	1725	Measured Value (mV)
9	-7	-4	9	-8	1	3	-10	6	-4	-8	10	0	14	-12	Error (mV)
-16.55	-16.25	-16.16	-16.09	-16.04	-16.00	-15.98	-15.97	-15.97	-15.97	-15.98	-15.99	-15.99	-15.99	-16.00	Measured Value (mV)

0.55 INTERCEPT (mV) 1532
 SLOPE (mV/dB) 26.42
 LIMITED IF OUTPUT (dBm)

-168	-58	75	212	332	475	608	730	878	999	1129	1279	1400	1547	1655	Measured Value (mV)
17	-5	-4	1	-11	0	0	-10	6	-5	-7	11	0	15	-9	Error (mV)
-16.46	-16.26	-16.15	-16.05	-15.97	-15.96	-15.99	-16.01	-16.01	-16.02	-16.03	-16.03	-16.03	-16.04	-16.06	Measured Value (mV)

0.80 INTERCEPT (mV) 1435
 SLOPE (mV/dB) 24.65
 LIMITED IF OUTPUT (dBm)

-142	-36	81	201	306	439	565	680	820	935	1059	1200	1315	1455	1558	Measured Value (mV)
25	8	2	-2	-20	-10	-7	-15	1	-7	-7	11	3	20	-1	Error (mV)
-16.33	-16.16	-16.09	-16.06	-16.01	-15.97	-16.00	-16.03	-16.04	-16.05	-16.06	-16.05	-16.05	-16.06	-16.07	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.82
 LINEARITY(-65 TO +5dBm) ± 1.03
 FREQUENCY FLATNESS ± 3.34

TSS 25C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.46V

INPUT VSWR 2:1 MAX @ 25C 1.18:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.30:1

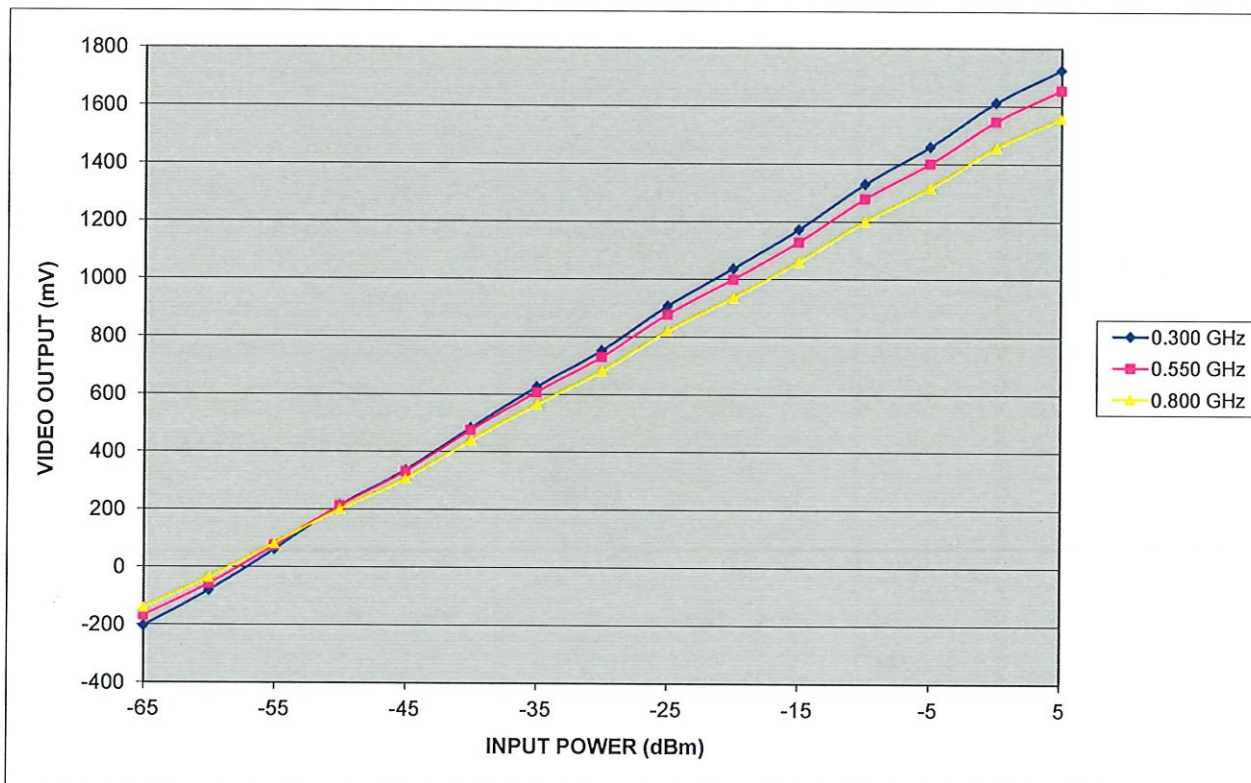
VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C 44 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 -15.96 dBm
 LIMITED IF OUTPUT MIN -16.55 dBm
 LIMITED IF FLATNESS ± 0.30 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4307
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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Frequency

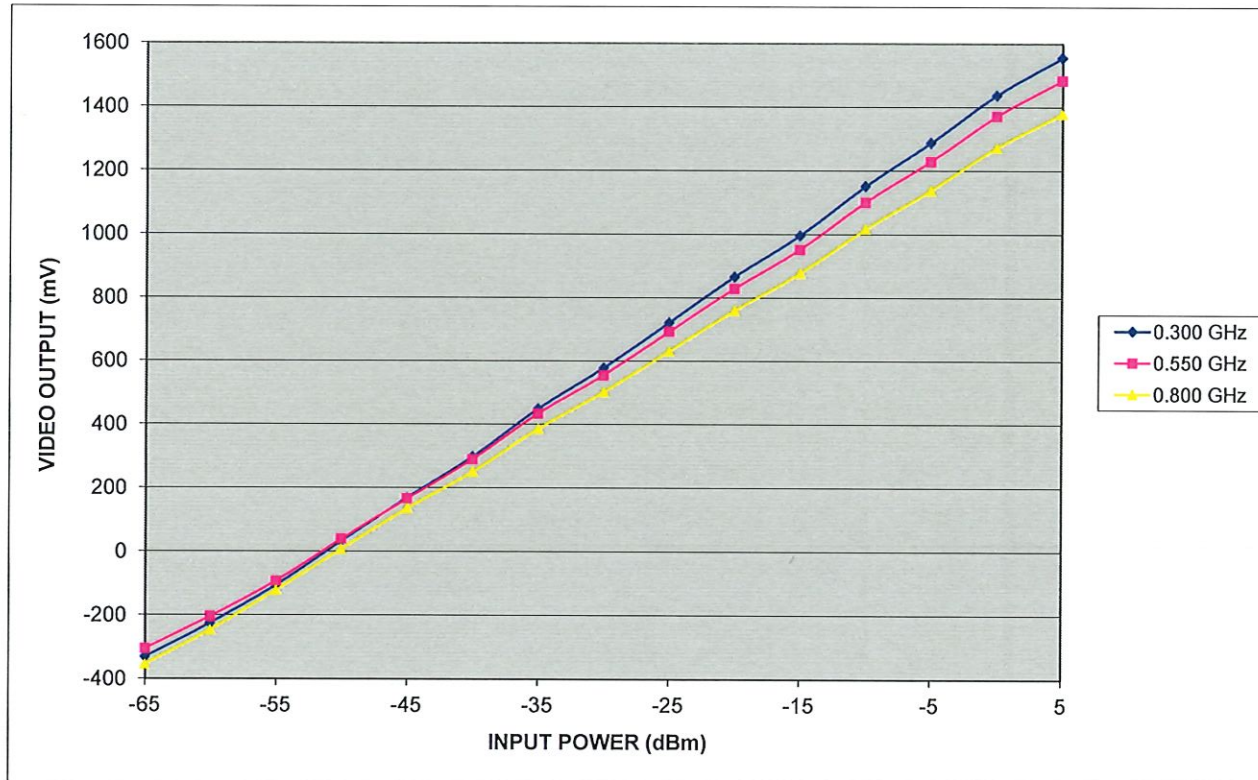
0.30 INTERCEPT (mV) 1417
 SLOPE (mV/dB) 27.51
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1352
 SLOPE (mV/dB) 26.09
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1259
 SLOPE (mV/dB) 25.04
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.46
 FREQUENCY FLATNESS ± 3.55

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-331	-226	-107	33	169	298	449	578	721	865	996	1151	1287	1437	1555	Measured Value (mV)
0.30 Error (mV)	40	8	-11	-9	-10	-19	-5	-14	-8	-1	-9	9	8	20	0	Error (mV)
0.30 Limited IF Output (dBm)	-16.87	-16.33	-16.10	-15.97	-15.89	-15.83	-15.80	-15.78	-15.77	-15.77	-15.77	-15.78	-15.78	-15.76	-15.75	Measured Value (mV)
0.55 Measured Value (mV)	-306	-205	-94	39	166	290	434	555	692	828	952	1100	1228	1371	1483	Measured Value (mV)
0.55 Error (mV)	38	9	-10	-8	-12	-18	-5	-14	-7	-2	-9	9	7	19	1	Error (mV)
0.55 Limited IF Output (dBm)	-16.71	-16.30	-16.08	-15.95	-15.86	-15.82	-15.81	-15.82	-15.83	-15.84	-15.85	-15.85	-15.85	-15.86	-15.89	Measured Value (mV)
0.80 Measured Value (mV)	-355	-248	-123	7	134	250	386	502	630	759	876	1015	1137	1271	1378	Measured Value (mV)
0.80 Error (mV)	13	-4	-5	0	2	-8	3	-6	-3	0	-8	6	3	12	-7	Error (mV)
0.80 Limited IF Output (dBm)	-17.06	-16.37	-16.06	-15.93	-15.87	-15.87	-15.88	-15.89	-15.90	-15.90	-15.91	-15.92	-15.94	-15.97	-16.04	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.75 dBm
 LIMITED IF OUTPUT MIN -17.06 dBm
 LIMITED IF FLATNESS ± 0.66 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4307
 TESTED BY: H. HAHN
 DATE: 4/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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Frequency

0.30 INTERCEPT (mV) 1395
 SLOPE (mV/dB) 27.57
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1331
 SLOPE (mV/dB) 26.15
 LIMITED IF OUTPUT (dBm)

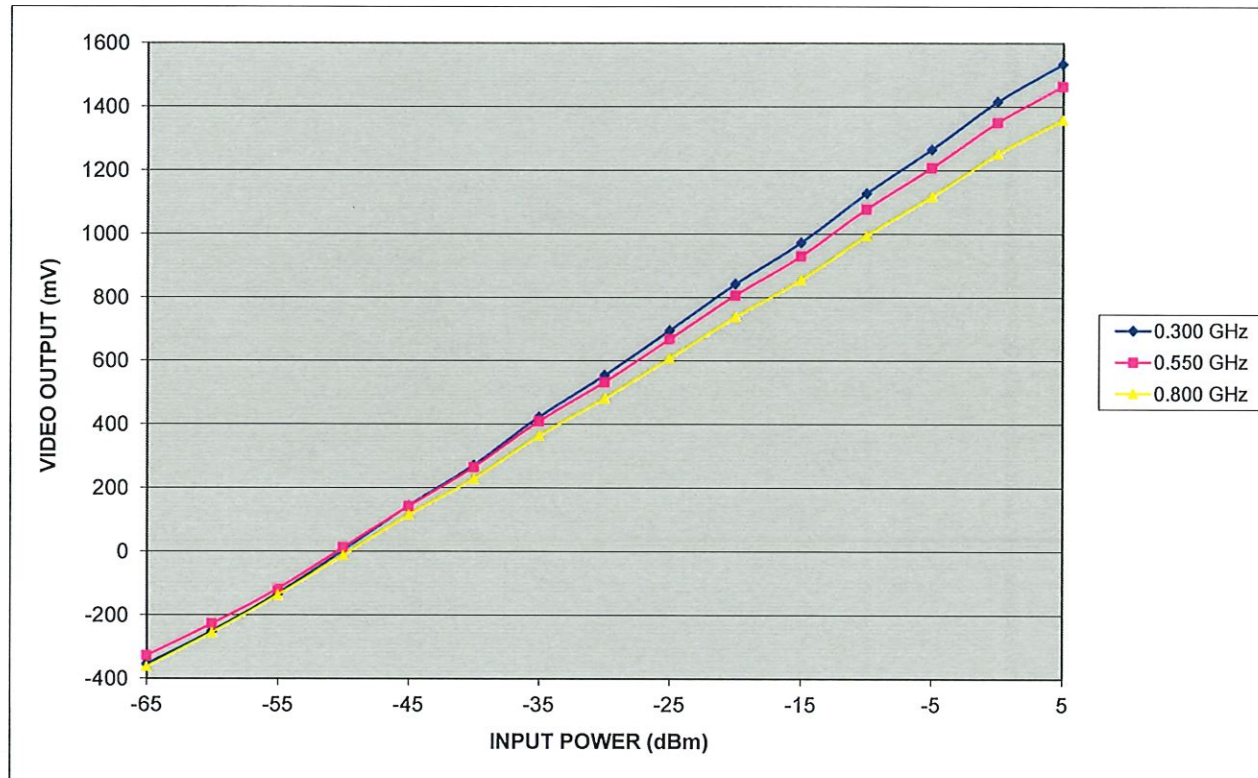
0.80 INTERCEPT (mV) 1236
 SLOPE (mV/dB) 24.9
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.58
 FREQUENCY FLATNESS ± 3.53

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-354	-251	-133	4	144	272	423	554	696	842	972	1127	1266	1416	1534	Measured Value (mV)
0.30 Error (mV)	43	9	-11	-12	-10	-20	-7	-13	-10	-1	-9	8	9	21	2	Error (mV)
0.30 Limited If Output (dBm)	-17.05	-16.45	-16.19	-16.05	-16.96	-16.90	-16.86	-16.84	-16.83	-16.83	-16.83	-16.84	-16.83	-16.83	-16.81	Measured Value (mV)
0.55 Measured Value (mV)	-328	-229	-118	13	143	265	410	533	668	806	930	1078	1208	1350	1464	Measured Value (mV)
0.55 Error (mV)	41	10	-11	-10	-11	-19	-6	-13	-9	-1	-9	9	8	20	2	Error (mV)
0.55 Limited If Output (dBm)	-16.86	-16.40	-16.16	-16.02	-16.93	-16.88	-16.87	-16.88	-16.89	-16.90	-16.90	-16.91	-16.91	-16.92	-16.95	Measured Value (mV)
0.80 Measured Value (mV)	-363	-256	-137	-12	115	228	363	481	608	738	855	994	1117	1250	1358	Measured Value (mV)
0.80 Error (mV)	19	2	-4	-3	-1	-12	-1	-8	-6	-1	-8	6	5	14	-3	Error (mV)
0.80 Limited If Output (dBm)	-17.11	-16.43	-16.13	-16.99	-16.93	-16.93	-16.94	-16.95	-16.95	-16.96	-16.96	-16.97	-16.98	-16.01	-16.07	Measured Value (mV)

TSS 95C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.35V



LIMITED IF OUTPUT MAX -15.81 dBm
 LIMITED IF OUTPUT MIN -17.11 dBm
 LIMITED IF FLATNESS ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4307
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1878
 SLOPE (mV/dB) 29.09
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1812
 SLOPE (mV/dB) 27.7
 LIMITED IF OUTPUT (dBm)

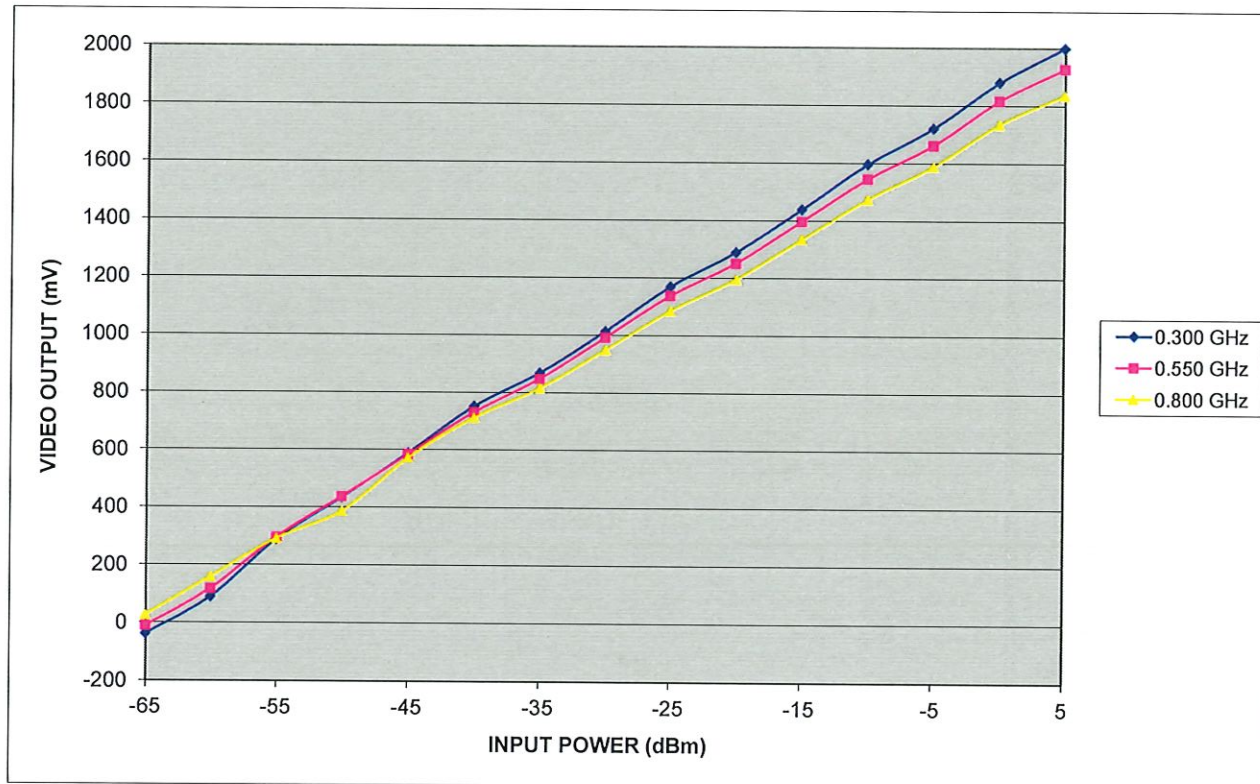
0.80 INTERCEPT (mV) 1723
 SLOPE (mV/dB) 26.03
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.49
 LINEARITY(-65 TO +5dBm) ± 1.49
 FREQUENCY FLATNESS ± 3.29

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.67V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-38	90	289	435	588	752	868	1013	1169	1289	1438	1595	1720	1880	1999	Measured Value (mV)
0.30 Error (mV)	-26	-43	10	11	19	37	8	7	18	-8	-4	8	-13	2	-25	Error (mV)
0.30 Limited If Output (dBm)	-15.61	-15.61	-15.83	-15.92	-15.93	-15.94	-15.95	-15.92	-15.93	-15.96	-15.97	-15.98	-15.99	-16.00	-16.00	Limited If Output (dBm)
0.55 Measured Value (mV)	-12	117	296	437	585	731	847	991	1137	1260	1396	1544	1661	1816	1927	Measured Value (mV)
0.55 Error (mV)	-24	-34	7	9	19	26	4	10	18	-8	-1	8	-13	3	-24	Error (mV)
0.55 Limited If Output (dBm)	-15.67	-15.63	-15.71	-15.78	-15.93	-15.91	-15.81	-15.82	-15.86	-15.90	-15.90	-15.90	-15.90	-15.91	-15.92	Limited If Output (dBm)
0.80 Measured Value (mV)	25	158	291	386	571	712	814	947	1083	1193	1332	1471	1586	1732	1834	Measured Value (mV)
0.80 Error (mV)	-6	-3	0	-36	19	30	1	4	10	-10	0	8	-7	9	-19	Error (mV)
0.80 Limited If Output (dBm)	-15.66	-15.60	-15.66	-15.75	-15.84	-15.88	-15.84	-15.81	-15.83	-15.85	-15.84	-15.83	-15.83	-15.86	-15.94	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -15.66 dBm
 LIMITED IF OUTPUT MIN -16.00 dBm
 LIMITED IF FLATNESS ± 0.22 dBm