

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4323
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-631-1579 FAX: 301-662-2029
 URL: WWW.PLANARMONOLITHICS.COM
 EMAIL: SALES@PLANARMONOLITHICS.COM
 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) 1560
 SLOPE (mV/dB) 27.72
 LIMITED IF OUTPUT (dBm)

-228	-108	30	182	305	448	593	718	870	1002	1136	1292	1423	1575	1689	Measured Value (mV)
14	-5	-6	8	-8	-3	3	-11	3	-4	-8	10	1	16	-10	Error (mV)
-16.71	-16.33	-16.20	-16.12	-16.08	-16.04	-16.02	-16.01	-16.01	-16.01	-16.02	-16.02	-16.03	-16.03	-16.04	Measured Value (mV)

0.55 INTERCEPT (mV) 1496
 SLOPE (mV/dB) 26.29
 LIMITED IF OUTPUT (dBm)

-192	-84	45	184	302	442	576	696	843	966	1094	1244	1366	1512	1621	Measured Value (mV)
20	-3	-5	2	-11	-3	0	-11	4	-5	-8	11	1	16	-7	Error (mV)
-16.59	-16.34	-16.21	-16.12	-16.04	-16.03	-16.06	-16.07	-16.07	-16.08	-16.09	-16.09	-16.09	-16.10	-16.12	Measured Value (mV)

0.80 INTERCEPT (mV) 1398
 SLOPE (mV/dB) 24.54
 LIMITED IF OUTPUT (dBm)

-172	-66	49	172	276	405	532	646	784	900	1022	1163	1279	1418	1522	Measured Value (mV)
25	8	0	1	-18	-11	-7	-16	-1	-7	-8	10	4	20	1	Error (mV)
-16.48	-16.27	-16.19	-16.16	-16.12	-16.09	-16.10	-16.12	-16.14	-16.15	-16.15	-16.14	-16.15	-16.17	-16.21	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.82
 LINEARITY(-65 TO +5dBm) ± 1.02
 FREQUENCY FLATNESS ± 3.34

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.40V

INPUT VSWR
 2:1 MAX @ 25C 1.22:1

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

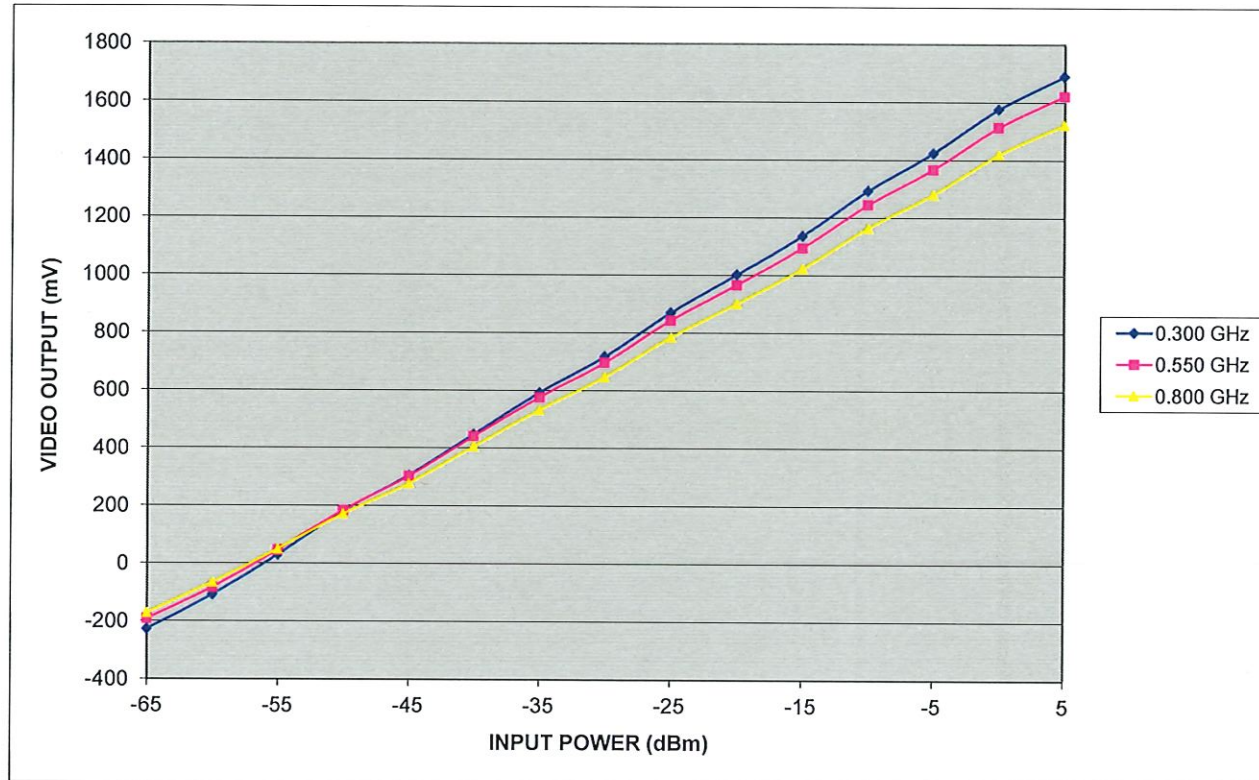
VIDEO RISE TIME
 25 nS MAX @ 25C 22 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 48 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 117 mA



LIMITED IF OUTPUT MAX -16.01 dBm
 LIMITED IF OUTPUT MIN -16.71 dBm
 LIMITED IF FLATNESS ± 0.35 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
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Frequency

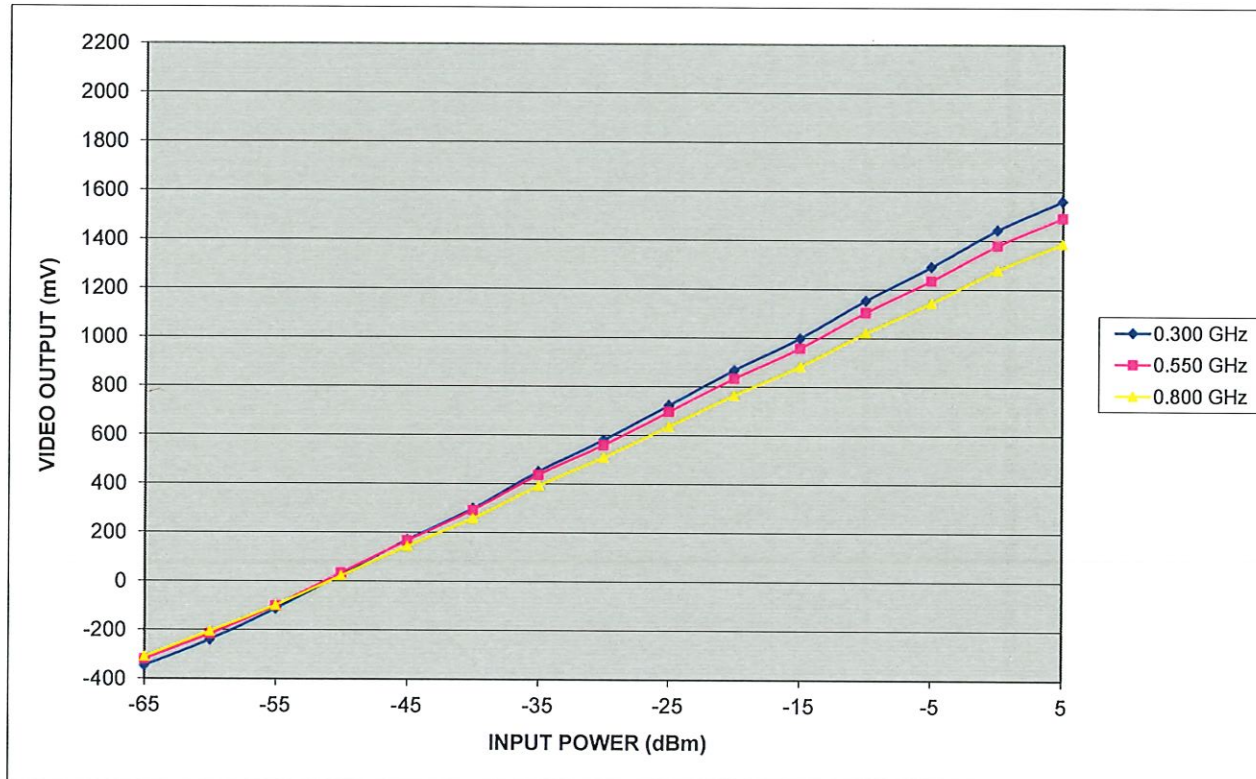
0.30 INTERCEPT (mV) 1424
 SLOPE (mV/dB) 27.77
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1362
 SLOPE (mV/dB) 26.39
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1260
 SLOPE (mV/dB) 24.62
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.27
 FREQUENCY FLATNESS ± 3.49

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-346	-240	-113	28	169	298	450	581	723	868	999	1154	1292	1443	1561	Measured Value (mV)
0.30 Error (mV)	35	2	-10	-8	-6	-15	-2	-11	-7	-1	-9	8	7	19	-2	Error (mV)
0.30 Limited If Output (dBm)	-17.17	-16.60	-16.22	-16.10	-16.02	-15.96	-15.93	-15.91	-15.91	-15.91	-15.91	-15.92	-15.92	-15.92	-15.92	Measured Value (mV)
0.55 Measured Value (mV)	-320	-217	-101	35	167	293	438	560	697	834	957	1106	1236	1379	1492	Measured Value (mV)
0.55 Error (mV)	34	5	-12	-8	-8	-14	-1	-11	-6	0	-9	8	6	17	-2	Error (mV)
0.55 Limited If Output (dBm)	-16.98	-16.49	-16.25	-16.11	-16.02	-15.97	-15.96	-15.97	-15.98	-15.98	-15.99	-15.99	-15.99	-15.99	-16.01	Measured Value (mV)
0.80 Measured Value (mV)	-310	-206	-100	23	143	258	392	508	636	765	882	1021	1144	1279	1386	Measured Value (mV)
0.80 Error (mV)	31	11	-6	-6	-9	-17	-6	-13	-8	-3	-9	7	7	19	3	Error (mV)
0.80 Limited If Output (dBm)	-16.86	-16.41	-16.20	-16.09	-16.03	-16.02	-16.03	-16.04	-16.04	-16.04	-16.05	-16.05	-16.05	-16.06	-16.08	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.91 dBm
 LIMITED IF OUTPUT MIN -17.17 dBm
 LIMITED IF FLATNESS ± 0.63 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
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Frequency

0.30 INTERCEPT (mV) 1374
 SLOPE (mV/dB) 27.77
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1311
 SLOPE (mV/dB) 26.26
 LIMITED IF OUTPUT (dBm)

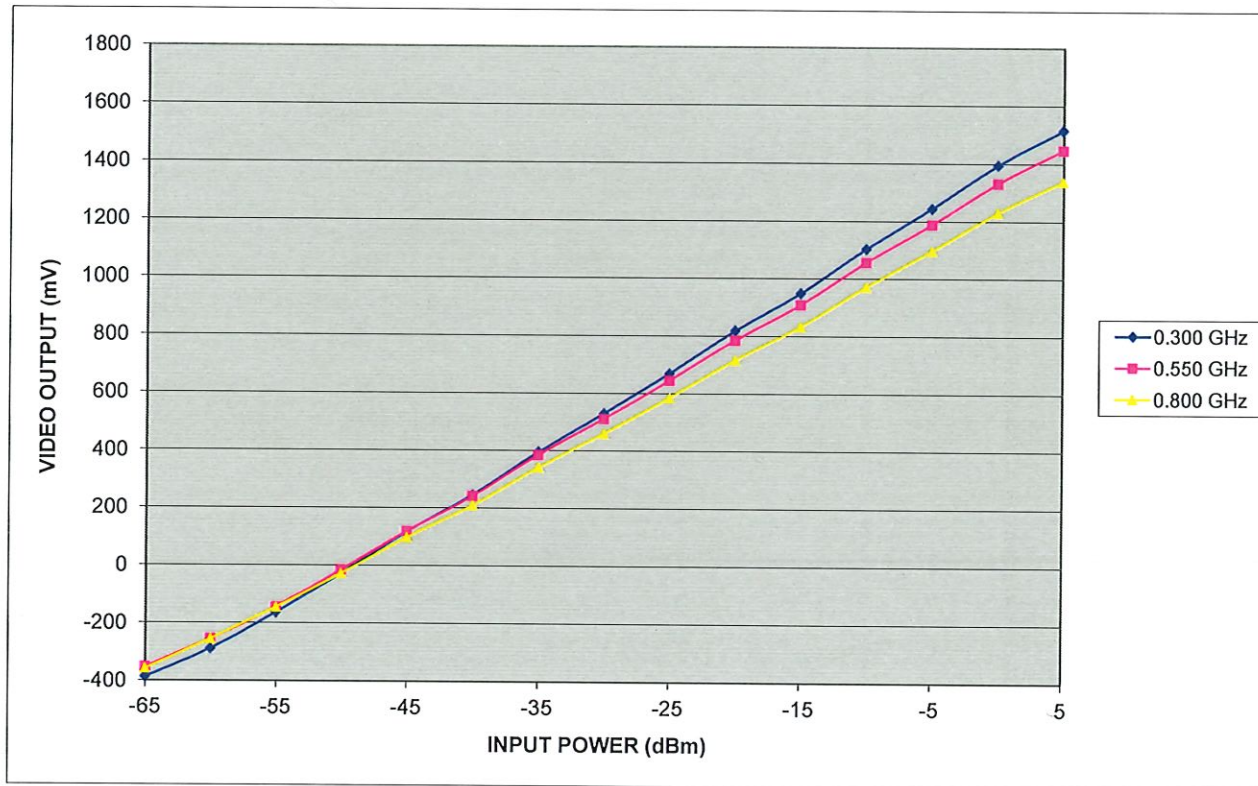
0.80 INTERCEPT (mV) 1210
 SLOPE (mV/dB) 24.6
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 1.66
 FREQUENCY FLATNESS ± 3.53

TSS 95C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.31V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-387	-289	-163	-28	118	245	396	530	669	818	949	1103	1244	1394	1515	Measured Value (mV)
0.30 Error (mV)	44	3	-10	-13	-6	-18	-6	-11	-10	-1	-9	7	9	20	2	Error (mV)
0.30 Limited IF Output (dBm)	-17.23	-16.46	-16.11	-15.95	-15.86	-15.80	-15.77	-15.75	-15.74	-15.74	-15.74	-15.75	-15.75	-15.75	-15.75	Measured Value (mV)
0.55 Measured Value (mV)	-352	-255	-144	-15	119	242	385	511	645	785	908	1056	1188	1331	1446	Measured Value (mV)
0.55 Error (mV)	43	9	-11	-13	-10	-19	-7	-12	-10	-1	-9	8	8	20	4	Error (mV)
0.55 Limited IF Output (dBm)	-16.90	-16.38	-16.11	-15.96	-15.86	-15.81	-15.80	-15.80	-15.81	-15.82	-15.83	-15.83	-15.83	-15.84	-15.87	Measured Value (mV)
0.80 Measured Value (mV)	-358	-255	-146	-28	98	209	341	460	584	715	832	970	1095	1229	1338	Measured Value (mV)
0.80 Error (mV)	30	10	-3	-8	-6	-18	-8	-12	-11	-3	-9	6	8	19	5	Error (mV)
0.80 Limited IF Output (dBm)	-16.91	-16.32	-16.07	-15.95	-15.89	-15.88	-15.89	-15.90	-15.90	-15.90	-15.90	-15.90	-15.91	-15.93	-15.97	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.74 dBm
 LIMITED IF OUTPUT MIN -17.23 dBm
 LIMITED IF FLATNESS ± 0.75 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
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 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1847
 SLOPE (mV/dB) 28.87
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1783
 SLOPE (mV/dB) 27.48
 LIMITED IF OUTPUT (dBm)

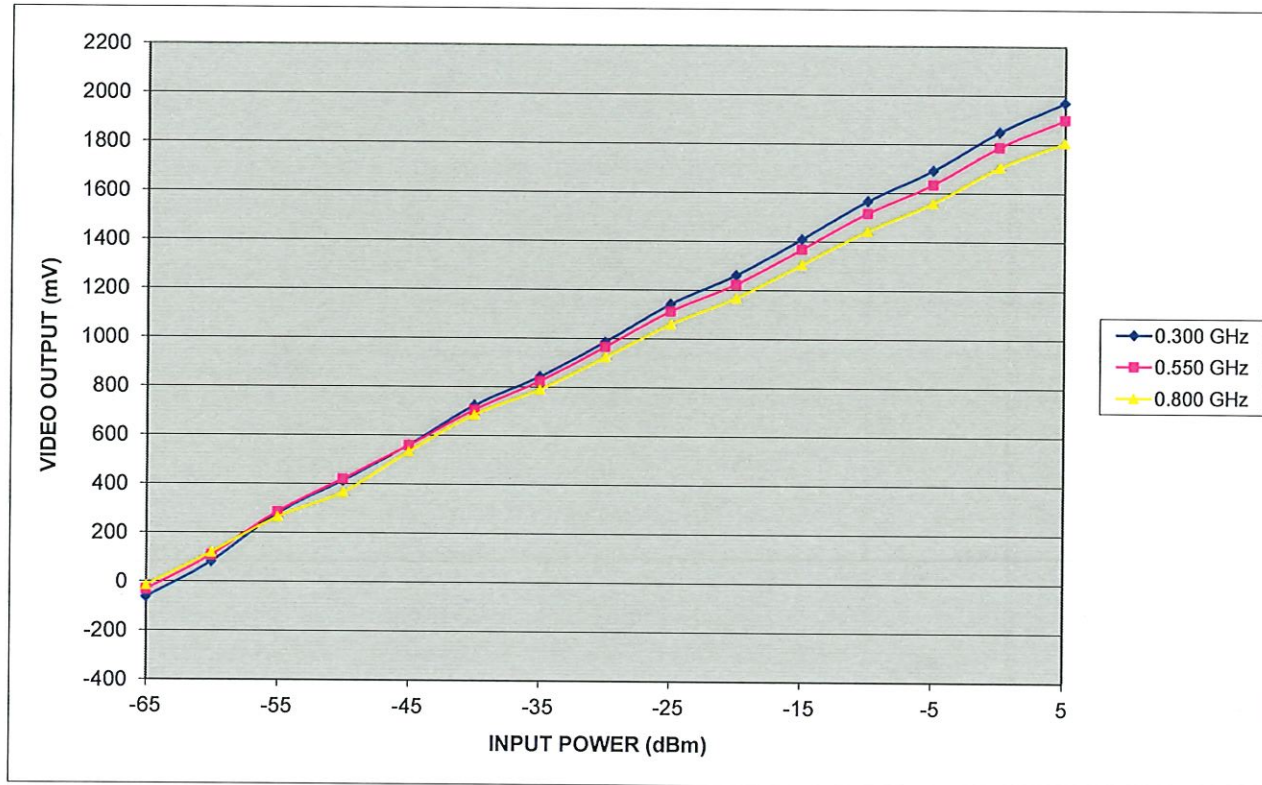
0.80 INTERCEPT (mV) 1698
 SLOPE (mV/dB) 26.14
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.26
 LINEARITY(-65 TO +5dBm) ± 1.26
 FREQUENCY FLATNESS ± 3.26

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-63	82	279	415	560	724	842	985	1142	1261	1409	1566	1691	1850	1970	Measured Value (mV)
0.30 Error (mV)	-33	-33	20	11	12	32	6	4	17	-9	-5	8	-12	3	-22	Error (mV)
0.30 Limited If Output (dBm)	-16.16	-15.97	-15.98	-16.00	-16.01	-16.02	-16.06	-16.06	-16.06	-16.07	-16.08	-16.08	-16.09	-16.09	-16.09	Limited If Output (dBm)
0.55 Measured Value (mV)	-32	109	285	420	559	706	824	965	1112	1224	1368	1516	1634	1788	1900	Measured Value (mV)
0.55 Error (mV)	-29	-25	14	12	12	22	3	6	16	-9	-3	8	-12	5	-21	Error (mV)
0.55 Limited If Output (dBm)	-16.04	-16.91	-15.88	-15.92	-16.02	-16.04	-15.96	-15.97	-16.01	-16.03	-16.04	-16.03	-16.03	-16.04	-16.05	Limited If Output (dBm)
0.80 Measured Value (mV)	-16	119	264	366	534	685	789	922	1059	1167	1305	1444	1558	1704	1806	Measured Value (mV)
0.80 Error (mV)	-15	-11	4	-25	12	33	6	8	14	-8	-1	7	-9	6	-22	Error (mV)
0.80 Limited If Output (dBm)	-16.00	-15.89	-15.85	-15.89	-15.97	-16.02	-15.98	-15.95	-15.97	-15.99	-15.99	-15.98	-15.99	-16.02	-16.10	Limited If Output (dBm)



LIMITED IF OUTPUT MAX -15.85 dBm
 LIMITED IF OUTPUT MIN -16.16 dBm
 LIMITED IF FLATNESS ± 0.15 dBm