

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4333
 TESTED BY: H. HAHN
 DATE: 9/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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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) 1599
 SLOPE (mV/dB) 27.61
 LIMITED IF OUTPUT (dBm)

-190	-65	81	228	349	498	635	761	915	1042	1177	1333	1460	1613	1727	Measured Value (mV)
5	-7	0	9	-8	4	2	-10	6	-5	-8	10	-1	14	-11	Error (mV)
-16.18	-15.90	-15.83	-15.77	-15.72	-15.68	-15.67	-15.66	-15.66	-15.66	-15.67	-15.68	-15.68	-15.68	-15.69	Measured Value (mV)

0.55 INTERCEPT (mV) 1530
 SLOPE (mV/dB) 26.13
 LIMITED IF OUTPUT (dBm)

-155	-43	93	226	345	488	614	736	884	1001	1131	1280	1398	1545	1653	Measured Value (mV)
13	-5	-1	3	-10	3	-2	-10	7	-6	-8	11	-1	14	-8	Error (mV)
-16.09	-15.92	-15.82	-15.74	-15.67	-15.66	-15.70	-15.71	-15.72	-15.73	-15.74	-15.74	-15.73	-15.75	-15.77	Measured Value (mV)

0.80 INTERCEPT (mV) 1431
 SLOPE (mV/dB) 24.39
 LIMITED IF OUTPUT (dBm)

-135	-25	96	211	316	449	569	684	823	935	1058	1198	1311	1449	1553	Measured Value (mV)
19	7	6	-1	-18	-7	-9	-15	2	-8	-7	10	2	18	0	Error (mV)
-16.01	-15.85	-15.81	-15.79	-15.76	-15.71	-15.73	-15.76	-15.78	-15.79	-15.79	-15.79	-15.80	-15.81	-15.85	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 0.79
 FREQUENCY FLATNESS ± 3.47

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.45V

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

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.42:1

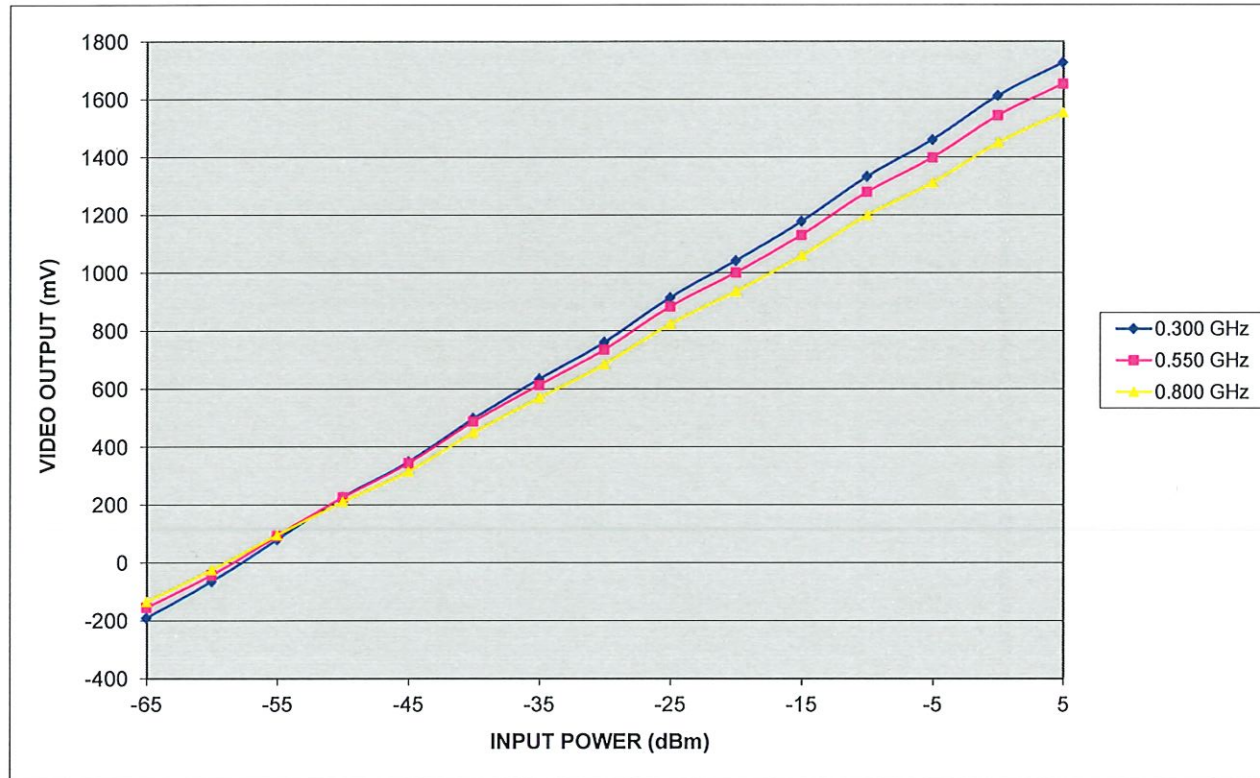
VIDEO RISE TIME
 25 nS MAX @ 25C 14 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 42 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 119 mA



LIMITED IF OUTPUT MAX -15.66 dBm
 LIMITED IF OUTPUT MIN -16.18 dBm
 LIMITED IF FLATNESS ± 0.26 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4333
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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Frequency

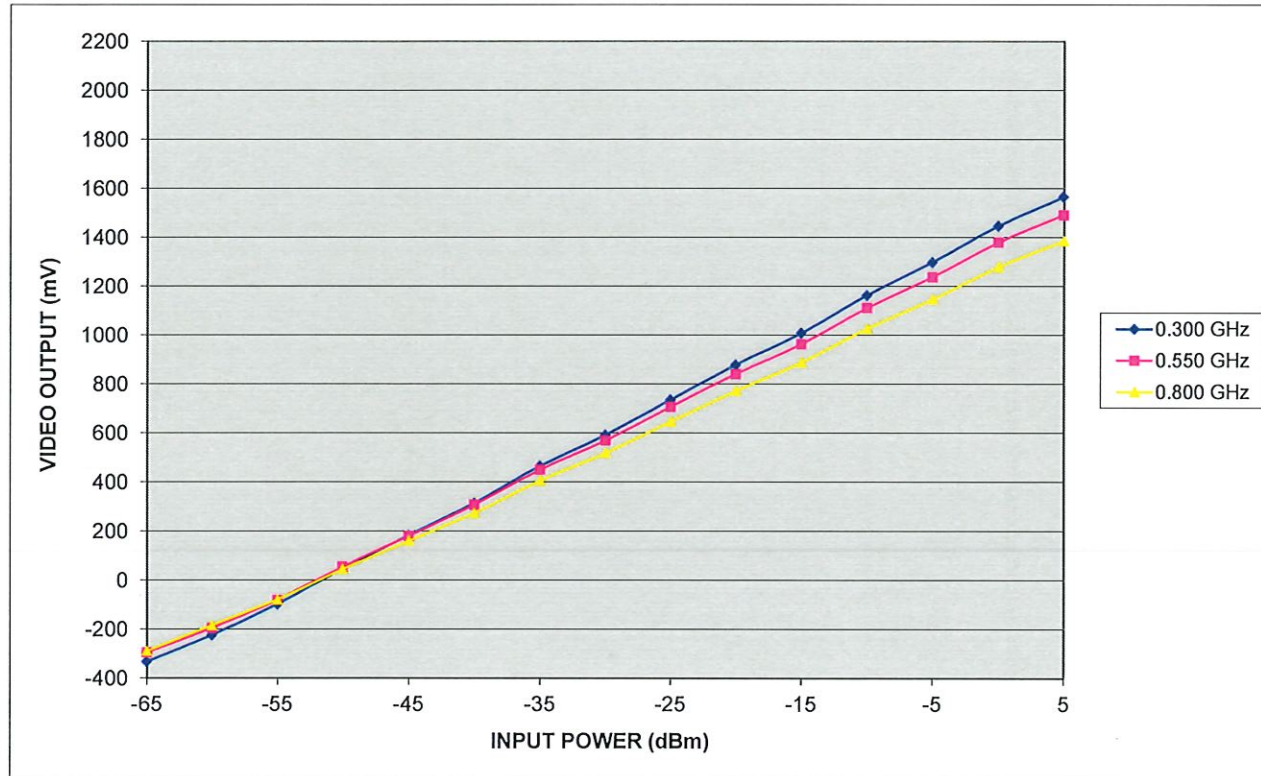
0.30 INTERCEPT (mV) 1430
 SLOPE (mV/dB) 27.58
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1362
 SLOPE (mV/dB) 26.04
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1260
 SLOPE (mV/dB) 24.26
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.31
 FREQUENCY FLATNESS ± 3.60

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-332	-224	-98	47	183	313	465	592	736	878	1008	1163	1298	1447	1565	
0.30 Error (mV)	30	1	-11	-4	-6	-13	0	-11	-5	0	-9	8	5	17	-3	
0.30 Limited IF Output (dBm)	-16.78	-16.17	-15.93	-15.81	-15.73	-15.68	-15.65	-15.64	-15.63	-15.63	-15.64	-15.65	-15.65	-15.65	-15.66	
0.55 Measured Value (mV)	-296	-196	-81	55	180	307	450	569	707	841	963	1111	1238	1380	1492	
0.55 Error (mV)	34	4	-12	-5	-10	-14	-1	-12	-5	-1	-9	9	5	17	-1	
0.55 Limited IF Output (dBm)	-16.55	-16.15	-15.93	-15.80	-15.72	-15.68	-15.68	-15.69	-15.69	-15.70	-15.71	-15.71	-15.72	-15.73	-15.75	
0.80 Measured Value (mV)	-290	-185	-80	45	160	273	405	517	646	771	887	1026	1145	1278	1385	
0.80 Error (mV)	27	11	-6	-2	-9	-17	-6	-15	-8	-4	-9	8	7	18	3	
0.80 Limited IF Output (dBm)	-16.45	-16.05	-15.88	-15.78	-15.76	-15.76	-15.76	-15.76	-15.77	-15.78	-15.78	-15.78	-15.79	-15.80	-15.83	



LIMITED IF OUTPUT MAX -15.63 dBm
 LIMITED IF OUTPUT MIN -16.78 dBm
 LIMITED IF FLATNESS ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4333
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1409
 SLOPE (mV/dB) 27.62
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1341
 SLOPE (mV/dB) 26.05
 LIMITED IF OUTPUT (dBm)

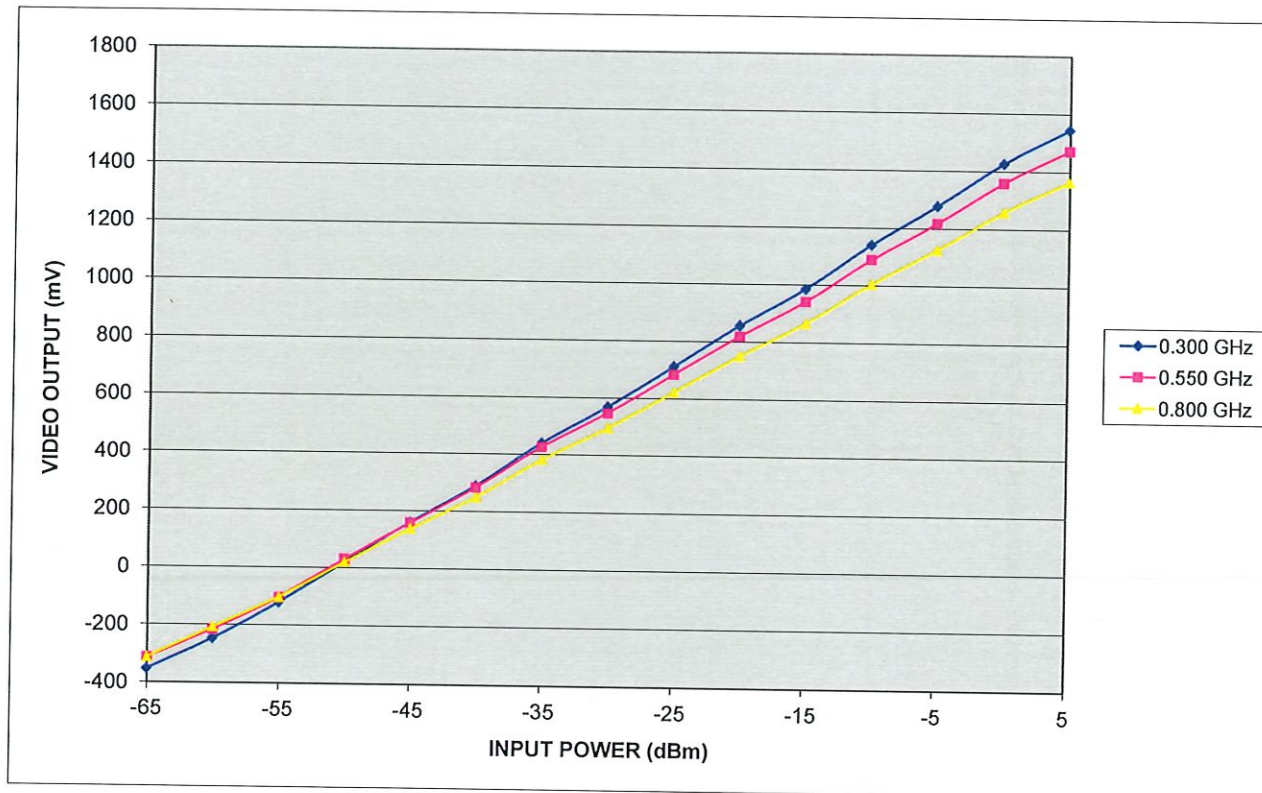
0.80 INTERCEPT (mV) 1238
 SLOPE (mV/dB) 24.3
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.46
 FREQUENCY FLATNESS ± 3.62

TSS 95C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.34V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
Measured Value (mV)	-353	-247	-121	21	161	289	441	570	712	856	986	1140	1277	1426	1545	
Error (mV)	34	1	-11	-6	-5	-15	-1	-11	-6	0	-9	8	6	17	-2	
Measured Value (mV)	-16.87	-16.22	-15.94	-16.81	-16.73	-15.67	-15.64	-15.62	-15.62	-15.62	-15.62	-15.63	-15.63	-15.64	-15.64	
Measured Value (mV)	-314	-217	-104	30	158	283	427	547	683	819	941	1089	1217	1358	1471	
Error (mV)	38	5	-12	-8	-10	-16	-2	-12	-6	-1	-9	9	6	18	0	
Measured Value (mV)	-16.61	-16.17	-15.94	-15.80	-15.72	-15.67	-15.66	-15.67	-15.68	-15.69	-15.69	-15.69	-15.70	-15.71	-15.73	
Measured Value (mV)	-313	-209	-104	20	137	249	382	495	622	749	865	1003	1124	1256	1364	
Error (mV)	28	11	-5	-4	-7	-17	-6	-14	-9	-3	-9	7	7	18	4	
Measured Value (mV)	-16.53	-16.08	-15.88	-15.77	-15.74	-15.74	-15.74	-15.75	-15.75	-15.76	-15.76	-15.76	-15.77	-15.78	-15.81	



LIMITED IF OUTPUT MAX -16.62 dBm
 LIMITED IF OUTPUT MIN -16.87 dBm
 LIMITED IF FLATNESS ± 0.63 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4333
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



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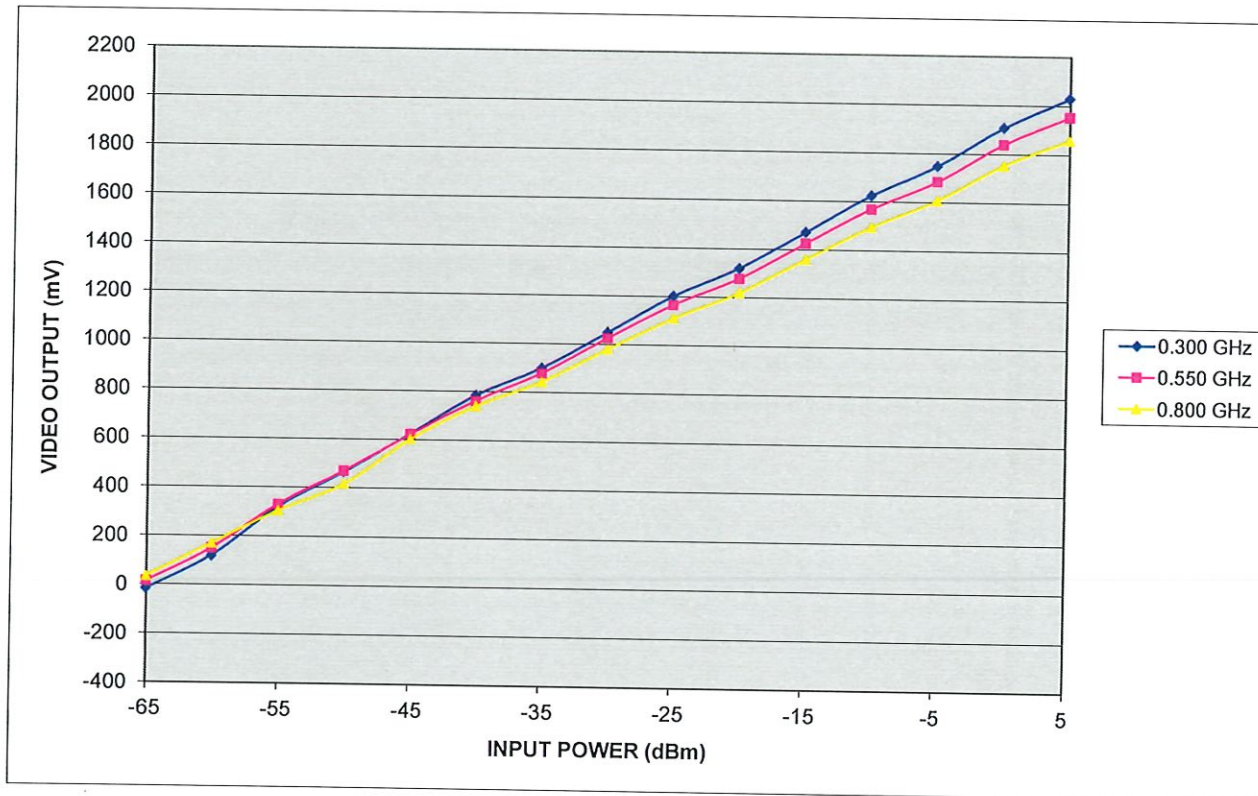
Frequency

0.30 INTERCEPT (mV) 1910
 SLOPE (mV/dB) 29.09
 LIMITED IF OUTPUT (dBm)
 0.55 INTERCEPT (mV) 1838
 SLOPE (mV/dB) 27.58
 LIMITED IF OUTPUT (dBm)
 0.80 INTERCEPT (mV) 1749
 SLOPE (mV/dB) 26.12
 LIMITED IF OUTPUT (dBm)
 LINEARITY(-60 TO 0dBm) ± 1.54
 LINEARITY(-65 TO +5dBm) ± 1.54
 FREQUENCY FLATNESS ± 3.45

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
Measured Value (mV)	-16	119	321	466	624	786	900	1050	1202	1320	1471	1625	1748	1908	2029	
Error (mV)	-34	-45	11	11	24	40	9	13	20	-8	-2	6	-16	-2	-26	
Measured Value (mV)	-15.37	-15.30	-15.43	-15.62	-15.55	-15.56	-15.57	-15.56	-15.57	-15.59	-15.61	-15.61	-15.62	-15.63	-15.63	
Measured Value (mV)	14	150	330	469	623	762	878	1025	1166	1277	1425	1569	1684	1839	1953	
Error (mV)	-32	-34	9	10	25	27	5	15	17	-10	1	7	-16	1	-23	
Measured Value (mV)	-15.32	-15.31	-15.33	-15.42	-15.56	-15.64	-15.50	-15.52	-15.55	-15.57	-15.57	-15.56	-15.56	-15.57	-15.58	
Measured Value (mV)	33	169	304	415	602	740	842	979	1109	1217	1358	1493	1605	1752	1857	
Error (mV)	-17	-12	-8	-28	28	36	7	14	14	-9	1	6	-13	3	-23	
Measured Value (mV)	-15.31	-15.29	-15.34	-15.43	-15.48	-15.52	-15.51	-15.50	-15.53	-15.55	-15.54	-15.53	-15.54	-15.56	-15.63	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.29 dBm
 LIMITED IF OUTPUT MIN -15.63 dBm
 LIMITED IF FLATNESS ± 0.17 dBm