

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4337
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1599
 SLOPE (mV/dB) 27.75
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1535
 SLOPE (mV/dB) 26.38
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1439
 SLOPE (mV/dB) 24.64
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 0.83
 FREQUENCY FLATNESS ± 3.30

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-199	-75	73	221	343	493	630	757	912	1040	1176	1332	1460	1614	1726	Measured Value (mV)
0.30 Error (mV)	6	-9	0	9	-7	4	2	-10	6	-5	-7	10	0	14	-12	Error (mV)
0.30 Limited IF Output (dBm)	-16.62	-16.33	-16.26	-16.20	-16.16	-16.12	-16.11	-16.10	-16.10	-16.10	-16.11	-16.11	-16.12	-16.12	-16.13	Measured Value (mV)
0.55 Measured Value (mV)	-168	-54	84	219	339	483	612	734	883	1002	1133	1282	1403	1550	1657	Measured Value (mV)
0.55 Error (mV)	12	-6	-1	3	-10	3	0	-10	7	-5	-7	11	-1	15	-10	Error (mV)
0.55 Limited IF Output (dBm)	-16.55	-16.35	-16.27	-16.18	-16.11	-16.12	-16.15	-16.16	-16.16	-16.17	-16.18	-16.17	-16.17	-16.18	-16.21	Measured Value (mV)
0.80 Measured Value (mV)	-142	-32	89	205	311	447	569	685	825	939	1063	1203	1318	1459	1561	Measured Value (mV)
0.80 Error (mV)	20	7	5	-2	-19	-7	-8	-15	2	-8	-7	10	2	19	-2	Error (mV)
0.80 Limited IF Output (dBm)	-16.46	-16.30	-16.25	-16.23	-16.19	-16.14	-16.17	-16.20	-16.21	-16.22	-16.22	-16.22	-16.22	-16.24	-16.28	Measured Value (mV)

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 1.28:1

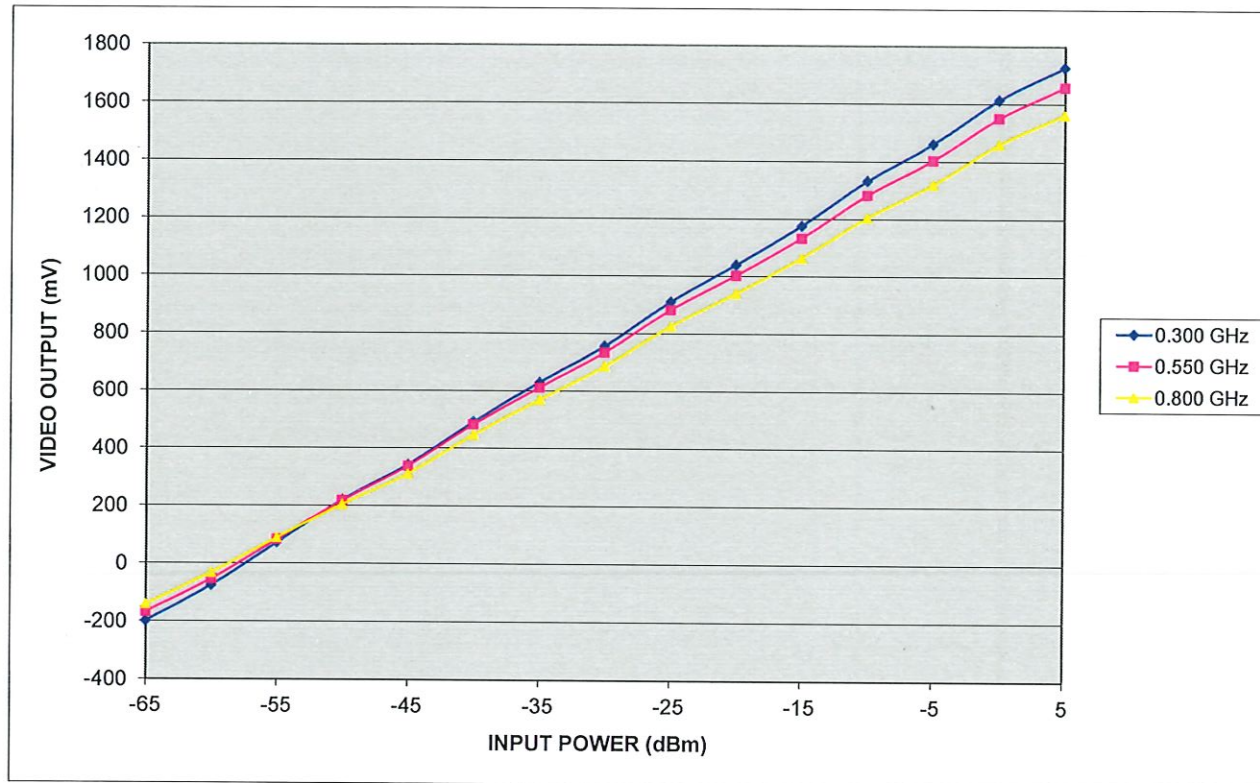
VIDEO RISE TIME
 25 nS MAX @ 25C 20 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 40 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 15 nS

+5 V @ 70 mA MAX 30 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.10 dBm
 LIMITED IF OUTPUT MIN -16.62 dBm
 LIMITED IF FLATNESS ± 0.26 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4337
 TESTED BY: H. HAHN
 DATE: 8/AUG/2008

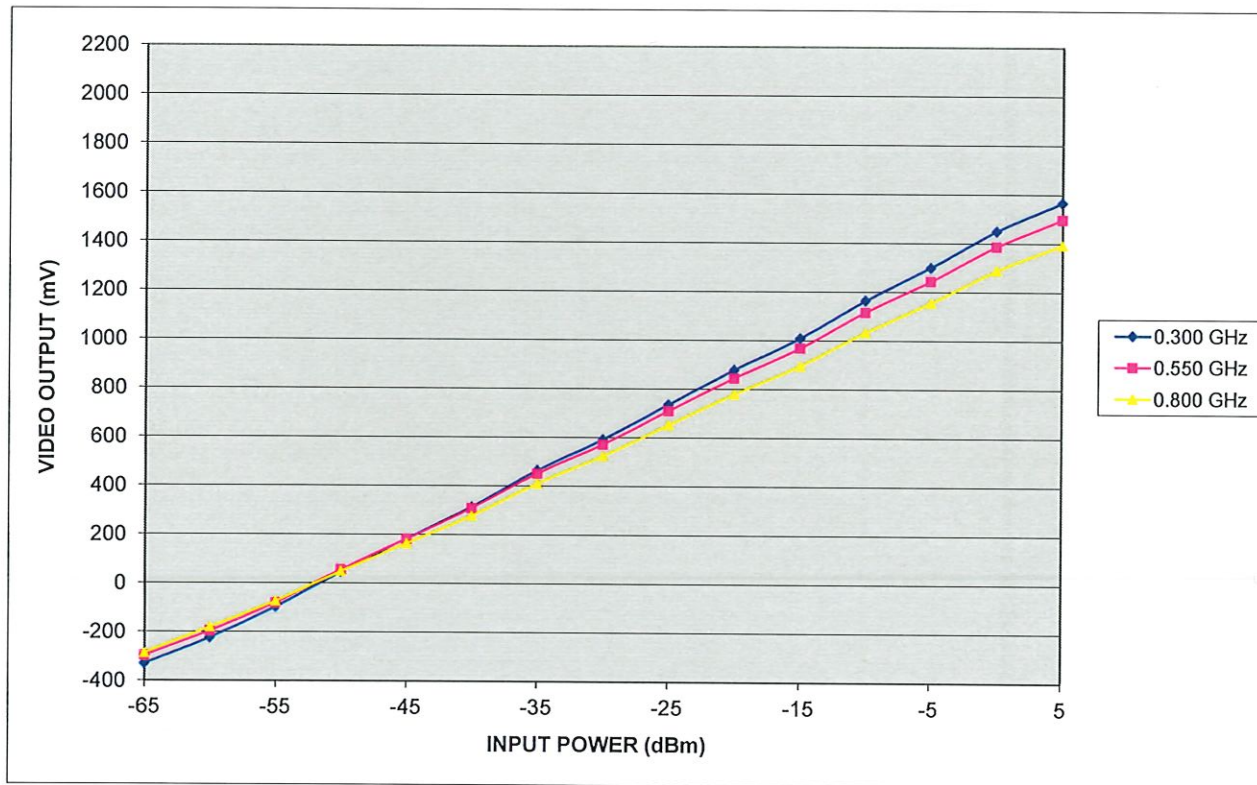


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Frequency

0.30 INTERCEPT (mV) 1431
 SLOPE (mV/dB) 27.6
 LIMITED IF OUTPUT (dBm)
 0.55 INTERCEPT (mV) 1369
 SLOPE (mV/dB) 26.16
 LIMITED IF OUTPUT (dBm)
 0.80 INTERCEPT (mV) 1268
 SLOPE (mV/dB) 24.36
 LIMITED IF OUTPUT (dBm)
 LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 1.31
 FREQUENCY FLATNESS ± 3.44

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-330	-224	-98	47	183	313	464	592	735	878	1009	1164	1299	1449	1566	
0.30 Error (mV)	33	1	-11	-4	-6	-14	-1	-12	-6	-1	-8	8	6	18	-4	
0.30 Limited IF Output (dBm)	-16.99	-16.39	-16.14	-16.02	-15.95	-15.89	-15.86	-15.85	-15.84	-15.84	-15.85	-15.86	-15.86	-15.86	-15.86	
0.55 Measured Value (mV)	-298	-197	-82	55	181	308	451	571	710	844	968	1116	1243	1387	1497	
0.55 Error (mV)	34	4	-12	-5	-10	-14	-2	-12	-5	-1	-9	9	6	18	-2	
0.55 Limited IF Output (dBm)	-16.78	-16.36	-16.14	-16.02	-15.93	-15.89	-15.88	-15.90	-15.90	-15.91	-15.92	-15.92	-15.92	-15.93	-15.96	
0.80 Measured Value (mV)	-288	-181	-76	49	163	277	409	522	651	777	894	1033	1154	1288	1394	
0.80 Error (mV)	27	12	-4	-2	-9	-17	-7	-16	-9	-4	-9	8	7	19	3	
0.80 Limited IF Output (dBm)	-16.65	-16.24	-16.07	-15.99	-15.96	-15.95	-15.96	-15.97	-15.97	-15.98	-15.98	-15.98	-15.99	-16.00	-16.04	



LIMITED IF OUTPUT MAX -16.84 dBm
 LIMITED IF OUTPUT MIN -16.99 dBm
 LIMITED IF FLATNESS ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4337
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Frequency

0.30 INTERCEPT (mV) 1405
 SLOPE (mV/dB) 27.63
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1344
 SLOPE (mV/dB) 26.2
 LIMITED IF OUTPUT (dBm)

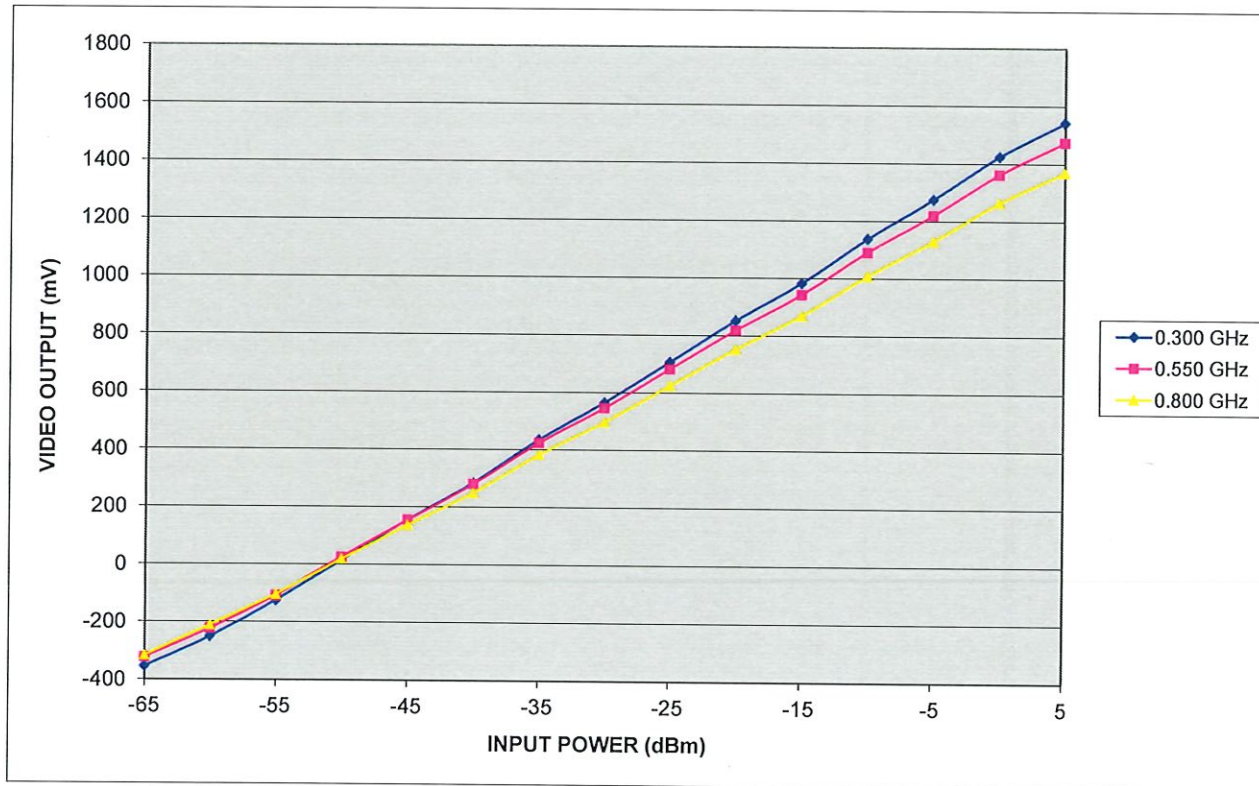
0.80 INTERCEPT (mV) 1244
 SLOPE (mV/dB) 24.43
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 1.38
 FREQUENCY FLATNESS ± 3.46

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
Measured Value (mV)	-354	-251	-125	16	156	285	436	565	707	852	983	1137	1274	1424	1542	
Error (mV)	37	2	-11	-8	-6	-15	-2	-11	-7	0	-8	8	7	19	-2	
Measured Value (mV)	-17.16	-16.49	-16.20	-16.07	-15.99	-15.94	-15.90	-15.89	-15.88	-15.88	-15.89	-15.89	-15.90	-15.90	-15.90	
Measured Value (mV)	-323	-223	-109	26	155	280	424	546	682	819	942	1090	1219	1362	1473	
Error (mV)	36	5	-12	-8	-10	-15	-3	-12	-6	-1	-8	9	6	18	-1	
Measured Value (mV)	-16.92	-16.45	-16.21	-16.07	-15.99	-15.94	-15.93	-15.94	-15.95	-15.95	-15.96	-15.96	-15.96	-15.97	-15.99	
Measured Value (mV)	-317	-211	-105	18	137	249	382	496	624	752	869	1007	1129	1263	1369	
Error (mV)	28	11	-5	-4	-7	-17	-6	-14	-9	-3	-9	7	7	19	3	
Measured Value (mV)	-16.82	-16.34	-16.14	-16.05	-16.01	-16.01	-16.01	-16.02	-16.02	-16.03	-16.03	-16.03	-16.04	-16.05	-16.08	

TSS 95C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.33V



LIMITED IF OUTPUT MAX -15.88 dBm
 LIMITED IF OUTPUT MIN -17.16 dBm
 LIMITED IF FLATNESS ± 0.64 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
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Frequency

0.30 INTERCEPT (mV) 1910
 SLOPE (mV/dB) 29.14
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1844
 SLOPE (mV/dB) 27.82
 LIMITED IF OUTPUT (dBm)

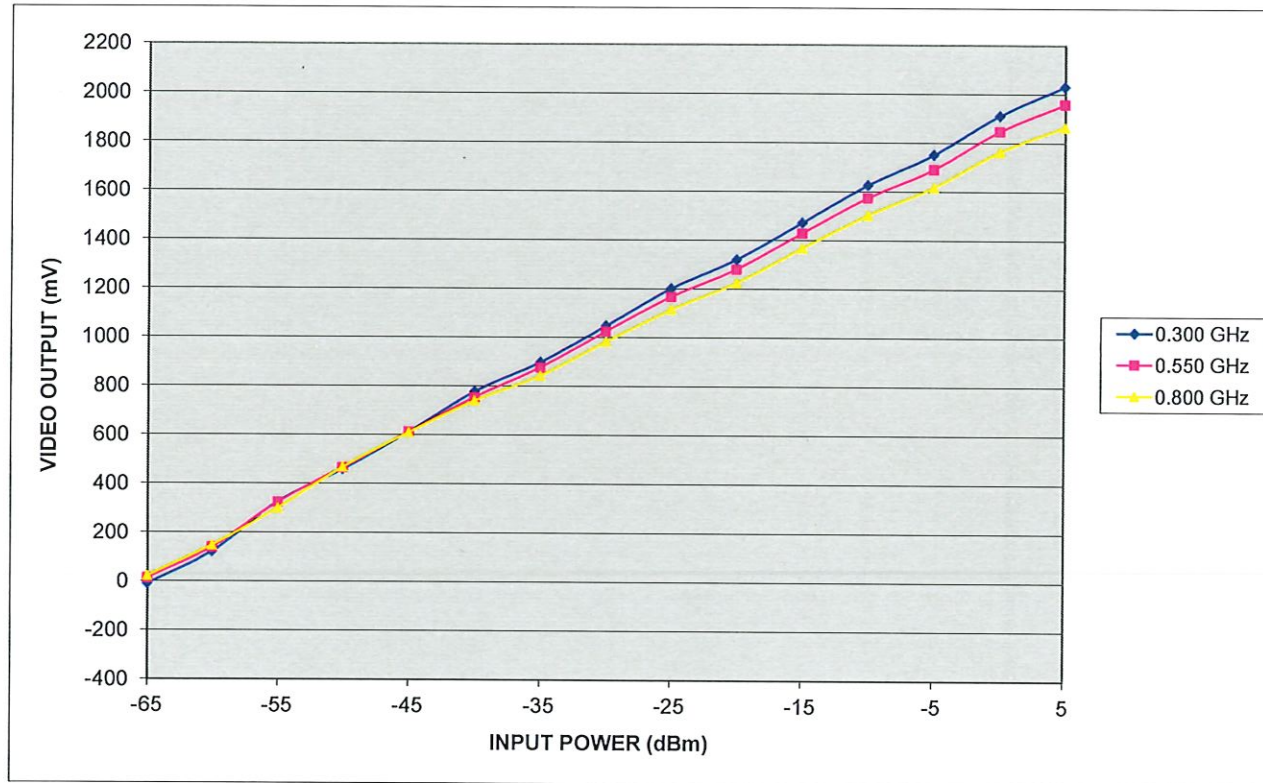
0.80 INTERCEPT (mV) 1759
 SLOPE (mV/dB) 26.31
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.38
 LINEARITY(-65 TO +5dBm) ± 1.38
 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)	-10	122	323	459	611	778	898	1047	1201	1320	1472	1626	1750	1911	2030	
0.30 Error (mV)	-26	-40	16	6	12	33	7	12	19	-8	-1	7	-14	1	-26	
0.30 Limited IF Output (dBm)	-15.75	-15.67	-15.75	-15.83	-15.88	-15.90	-15.93	-15.90	-15.90	-15.93	-15.94	-15.95	-15.96	-15.96	-15.96	
0.55 Measured Value (mV)	12	138	322	464	611	754	876	1024	1167	1280	1429	1574	1690	1847	1957	
0.55 Error (mV)	-24	-37	8	10	19	23	5	15	18	-8	2	8	-15	2	-26	
0.55 Limited IF Output (dBm)	-15.69	-15.64	-15.65	-15.75	-15.85	-15.81	-15.82	-15.86	-15.89	-15.90	-15.90	-15.90	-15.89	-15.90	-15.91	
0.80 Measured Value (mV)	21	146	298	466	609	739	842	981	1114	1223	1365	1501	1616	1763	1864	
0.80 Error (mV)	-28	-34	-14	23	34	32	4	11	12	-10	1	5	-12	3	-27	
0.80 Limited IF Output (dBm)	-15.67	-15.65	-15.68	-15.86	-15.86	-15.89	-15.85	-15.83	-15.86	-15.87	-15.86	-15.85	-15.86	-15.89	-15.96	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.64 dBm
 LIMITED IF OUTPUT MIN -15.96 dBm
 LIMITED IF FLATNESS ± 0.16 dBm