

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4332
 TESTED BY: H. HAHN
 DATE: 11/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1626
 SLOPE (mV/dB) 27.59
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1560
 SLOPE (mV/dB) 26.19
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1465
 SLOPE (mV/dB) 24.5
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 0.75
 FREQUENCY FLATNESS ± 3.33

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.46V

INPUT VSWR 2:1 MAX @ 25C 1.13:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.18:1

VIDEO RISE TIME 25 nS MAX @ 25C 22 nS

VIDEO FALL TIME 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C 14 nS

+5 V @ 70 mA MAX 31 mA

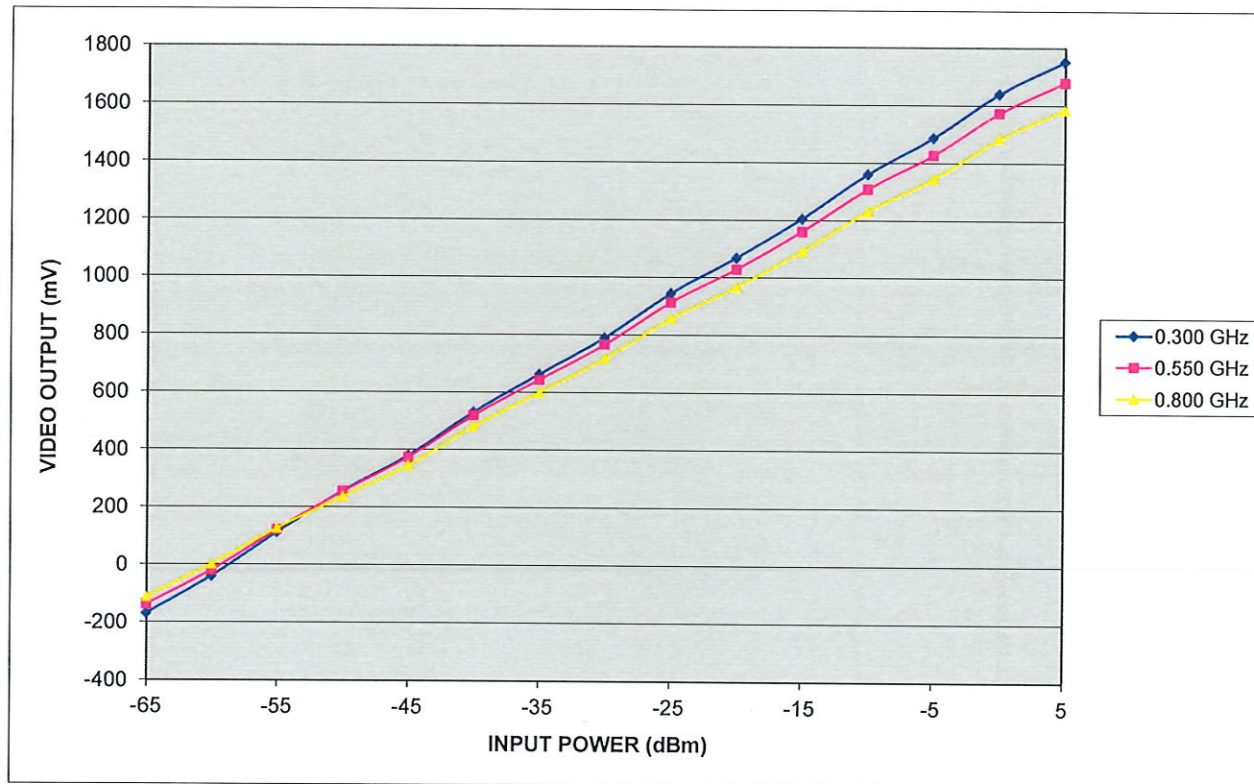
-5.2 V @ 200 mA MAX 117 mA

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 RF Input Power (dBm)

-169	-40	113	257	379	532	663	790	945	1088	1205	1360	1486	1639	1751	Measured Value (mV)
-2	-10	4	10	-6	9	2	-8	8	-6	-7	9	-2	13	-13	Error (mV)
-16.42	-16.14	-16.07	-16.03	-15.99	-15.97	-15.95	-15.95	-15.95	-15.95	-15.96	-15.96	-15.97	-15.97	-15.97	Measured Value (mV)

-138	-20	122	255	374	519	643	766	913	1029	1160	1308	1426	1573	1680	Measured Value (mV)
5	-8	2	4	-8	7	0	-8	8	-7	-7	10	-2	14	-11	Error (mV)
-16.34	-16.17	-16.08	-16.01	-15.96	-15.96	-16.00	-16.01	-16.01	-16.02	-16.02	-16.02	-16.02	-16.03	-16.05	Measured Value (mV)

-113	1	126	237	345	481	599	717	856	966	1091	1230	1343	1483	1584	Measured Value (mV)
15	6	9	-3	-17	-3	-8	-13	4	-9	-6	10	1	18	-3	Error (mV)
-16.27	-16.12	-16.08	-16.08	-16.05	-16.00	-16.03	-16.05	-16.06	-16.07	-16.07	-16.06	-16.07	-16.08	-16.11	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.95 dBm
 LIMITED IF OUTPUT MIN -16.42 dBm
 LIMITED IF FLATNESS ± 0.23 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
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Frequency

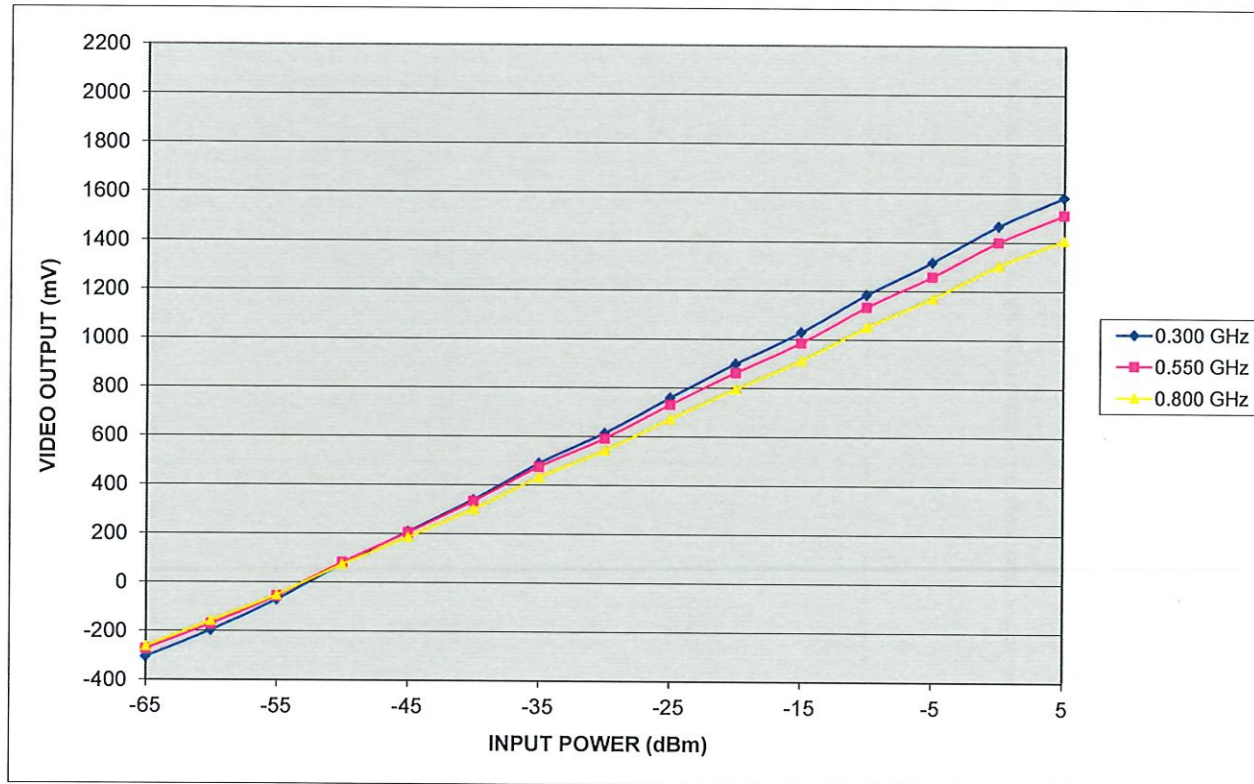
0.30 INTERCEPT (mV) 1449
 SLOPE (mV/dB) 27.44
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1384
 SLOPE (mV/dB) 25.98
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1284
 SLOPE (mV/dB) 24.21
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 1.20
 FREQUENCY FLATNESS ± 3.50

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-305	-197	-70	76	208	339	489	614	759	899	1029	1183	1317	1467	1583	Measured Value (mV)
0.30 Error (mV)	29	0	-11	-2	-7	-12	0	-12	-4	-1	-9	9	5	17	-4	Error (mV)
0.30 Limited IF Output (dBm)	-16.82	-16.26	-16.03	-15.92	-15.86	-15.81	-15.79	-15.78	-15.77	-15.77	-15.78	-15.79	-15.79	-15.79	-15.79	Measured Value (mV)
0.55 Measured Value (mV)	-274	-172	-56	81	205	333	474	592	731	862	985	1133	1259	1401	1512	Measured Value (mV)
0.55 Error (mV)	31	3	-11	-3	-10	-11	0	-13	-3	-2	-9	9	5	17	-2	Error (mV)
0.55 Limited IF Output (dBm)	-16.64	-16.25	-16.05	-15.94	-15.86	-15.83	-15.83	-15.84	-15.84	-15.85	-15.86	-15.86	-15.86	-15.87	-15.89	Measured Value (mV)
0.80 Measured Value (mV)	-264	-159	-53	74	185	300	431	542	672	795	912	1050	1169	1303	1408	Measured Value (mV)
0.80 Error (mV)	26	10	-5	0	-9	-15	-5	-16	-7	-5	-9	8	6	19	3	Error (mV)
0.80 Limited IF Output (dBm)	-16.53	-16.15	-16.00	-15.93	-15.91	-15.91	-15.91	-15.92	-15.92	-15.92	-15.92	-15.92	-15.93	-15.94	-15.97	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.77 dBm
 LIMITED IF OUTPUT MIN -16.82 dBm
 LIMITED IF FLATNESS ± 0.52 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4332
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Frequency

0.30 INTERCEPT (mV) 1426
 SLOPE (mV/dB) 27.45
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1360
 SLOPE (mV/dB) 25.98
 LIMITED IF OUTPUT (dBm)

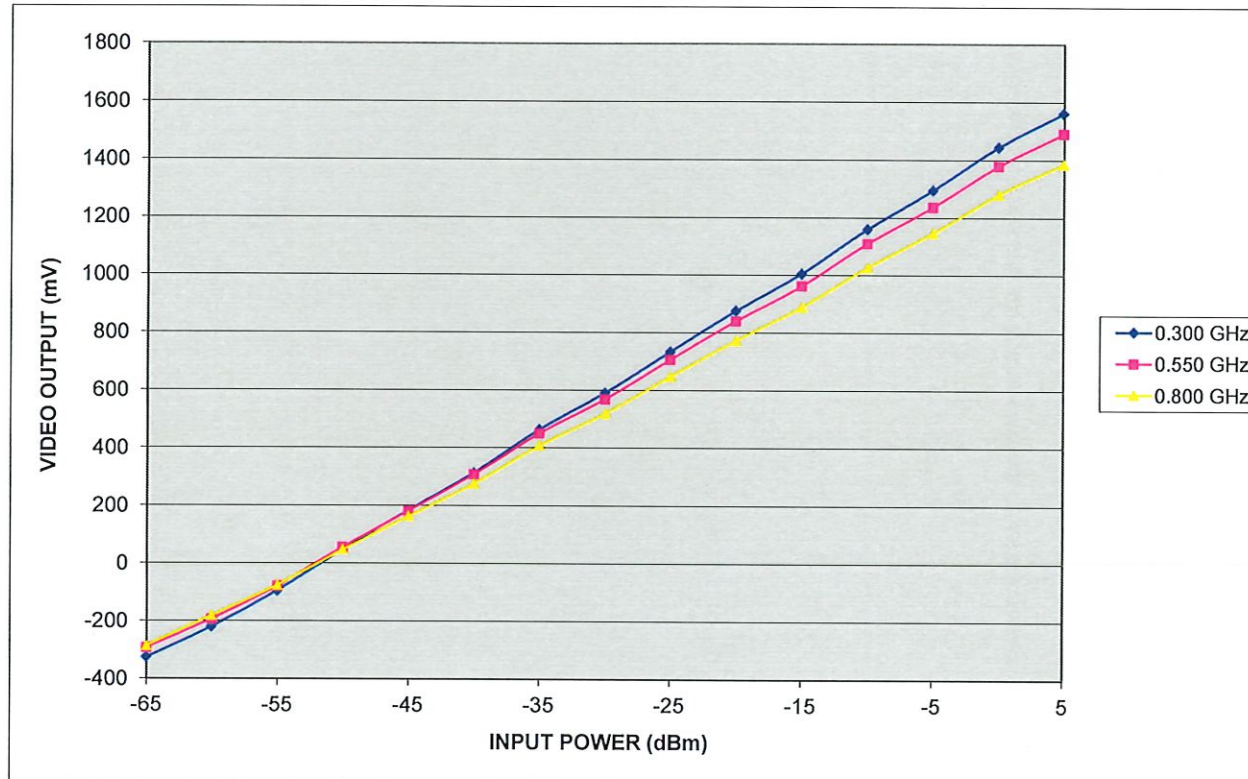
0.80 INTERCEPT (mV) 1260
 SLOPE (mV/dB) 24.22
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 1.31
 FREQUENCY FLATNESS ± 3.52

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)	-326	-220	-95	48	184	314	464	591	733	876	1005	1159	1294	1443	1560	
0.30 Error (mV)	33	1	-11	-5	-6	-14	-1	-12	-6	-1	-9	8	6	18	-2	
0.30 Limited IF Output (dBm)	-16.99	-16.38	-16.12	-16.00	-15.92	-15.88	-15.85	-15.84	-15.84	-15.84	-15.84	-15.85	-15.85	-15.85	-15.85	
0.55 Measured Value (mV)	-294	-194	-80	56	182	308	450	569	706	839	962	1109	1236	1378	1489	
0.55 Error (mV)	34	4	-12	-6	-10	-13	-1	-12	-5	-1	-9	9	5	18	-1	
0.55 Limited IF Output (dBm)	-16.78	-16.35	-16.13	-16.01	-16.93	-15.90	-15.89	-15.90	-15.90	-15.91	-15.91	-15.91	-16.92	-16.92	-16.95	
0.80 Measured Value (mV)	-288	-183	-77	47	162	275	407	518	646	771	887	1025	1145	1279	1384	
0.80 Error (mV)	27	11	-5	-2	-8	-16	-6	-15	-8	-4	-9	8	7	19	3	
0.80 Limited IF Output (dBm)	-16.68	-16.25	-16.08	-16.00	-16.97	-15.97	-15.97	-15.97	-15.98	-15.98	-15.98	-15.98	-15.99	-16.00	-16.03	



LIMITED IF OUTPUT MAX -15.84 dBm
 LIMITED IF OUTPUT MIN -16.99 dBm
 LIMITED IF FLATNESS ± 0.58 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4332
 TESTED BY: H. HAHN
 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1931
 SLOPE (mV/dB) 28.84
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1864
 SLOPE (mV/dB) 27.55
 LIMITED IF OUTPUT (dBm)

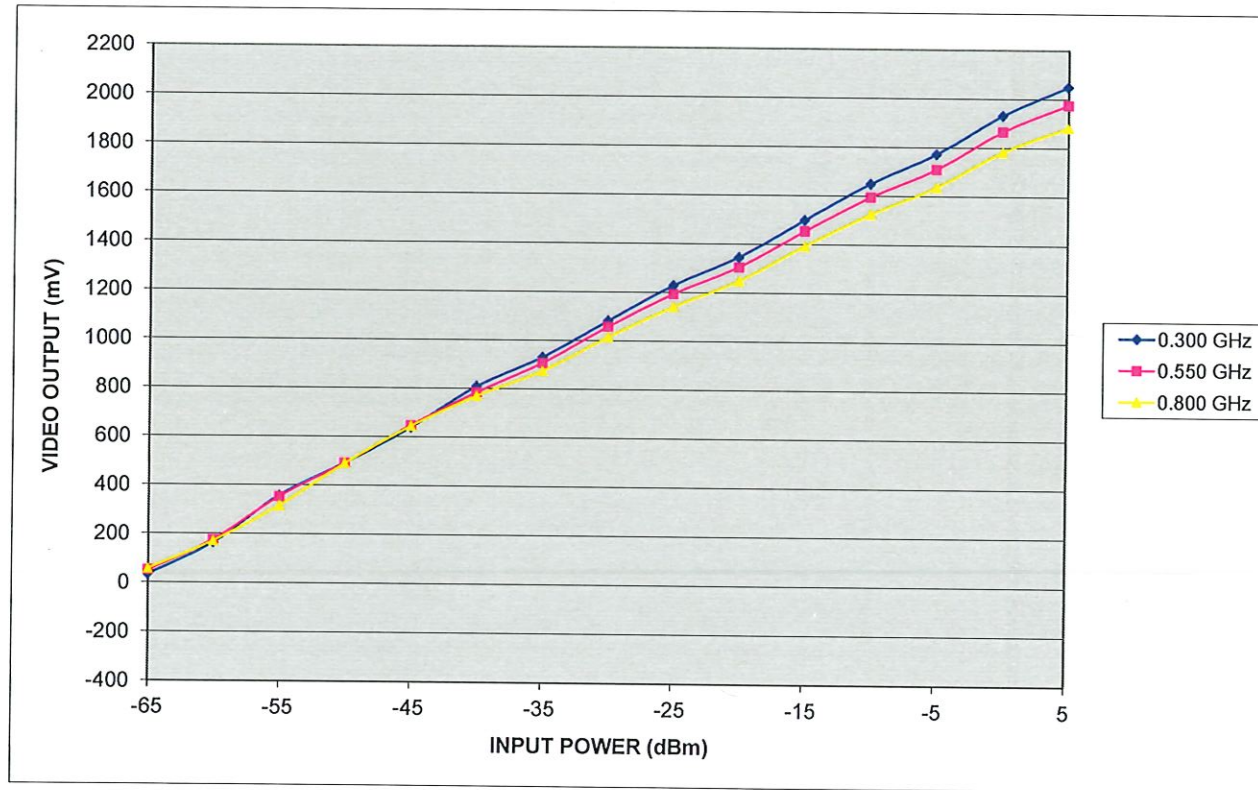
0.80 INTERCEPT (mV) 1781
 SLOPE (mV/dB) 26.18
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.58
 LINEARITY(-65 TO +5dBm) ± 1.58
 FREQUENCY FLATNESS ± 3.36

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	34	163	357	492	639	809	930	1082	1229	1346	1499	1649	1772	1932	2050	
0.30 Error (mV)	-22	-37	12	3	6	32	9	16	19	-8	1	7	-15	1	-25	
0.30 Limited IF Output (dBm)	-15.68	-15.63	-15.66	-15.72	-15.78	-15.80	-15.83	-15.81	-15.82	-15.84	-15.85	-15.85	-15.86	-15.86	-15.86	
0.55 Measured Value (mV)	51	174	353	491	647	784	906	1058	1193	1305	1454	1594	1709	1865	1975	
0.55 Error (mV)	-23	-37	4	4	22	23	7	21	18	-8	3	6	-17	1	-26	
0.55 Limited IF Output (dBm)	-15.64	-15.60	-15.69	-15.63	-15.73	-15.71	-15.71	-15.75	-15.78	-15.80	-15.80	-15.79	-15.79	-15.80	-15.81	
0.80 Measured Value (mV)	56	170	315	490	644	770	873	1014	1140	1247	1391	1523	1636	1782	1882	
0.80 Error (mV)	-23	-40	-26	19	41	36	9	19	13	-10	3	4	-14	1	-30	
0.80 Limited IF Output (dBm)	-15.63	-15.60	-15.60	-15.75	-15.73	-15.77	-15.73	-15.72	-15.75	-15.77	-15.76	-15.76	-15.77	-15.80	-15.86	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.69V



LIMITED IF OUTPUT MAX -15.59 dBm
 LIMITED IF OUTPUT MIN -15.86 dBm
 LIMITED IF FLATNESS ± 0.14 dBm