

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4355
 TESTED BY: H. HAHN
 DATE: 12/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30	INTERCEPT (mV)	1680																Measured Value (mV)
	SLOPE (mV/dB)	27.99																Error (mV)
	LIMITED IF OUTPUT (dBm)	-16.29	-16.07	-16.03	-15.99	-15.95	-15.92	-15.91	-15.90	-15.90	-15.90	-15.92	-15.92	-15.92	-15.92	-15.92	-15.93	Measured Value (mV)
0.55	INTERCEPT (mV)	1611																Measured Value (mV)
	SLOPE (mV/dB)	26.54																Error (mV)
	LIMITED IF OUTPUT (dBm)	-16.22	-16.10	-16.03	-16.96	-15.90	-15.90	-15.95	-15.95	-15.96	-15.97	-15.97	-15.97	-15.97	-15.97	-15.98	-16.01	Measured Value (mV)
0.80	INTERCEPT (mV)	1513																Measured Value (mV)
	SLOPE (mV/dB)	24.77																Error (mV)
	LIMITED IF OUTPUT (dBm)	-16.16	-16.05	-16.02	-16.02	-15.98	-15.92	-15.95	-16.98	-16.00	-16.02	-16.01	-16.01	-16.01	-16.01	-16.02	-16.07	Measured Value (mV)
LINEARITY(-60 TO 0dBm)		± 0.74																
LINEARITY(-65 TO +5dBm)		± 0.74																
FREQUENCY FLATNESS		± 3.41																

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.65V

INPUT VSWR 2:1 MAX @ 25C
 1.19:1

IF OUTPUT VSWR 2:1 MAX @ 25C
 1.32:1

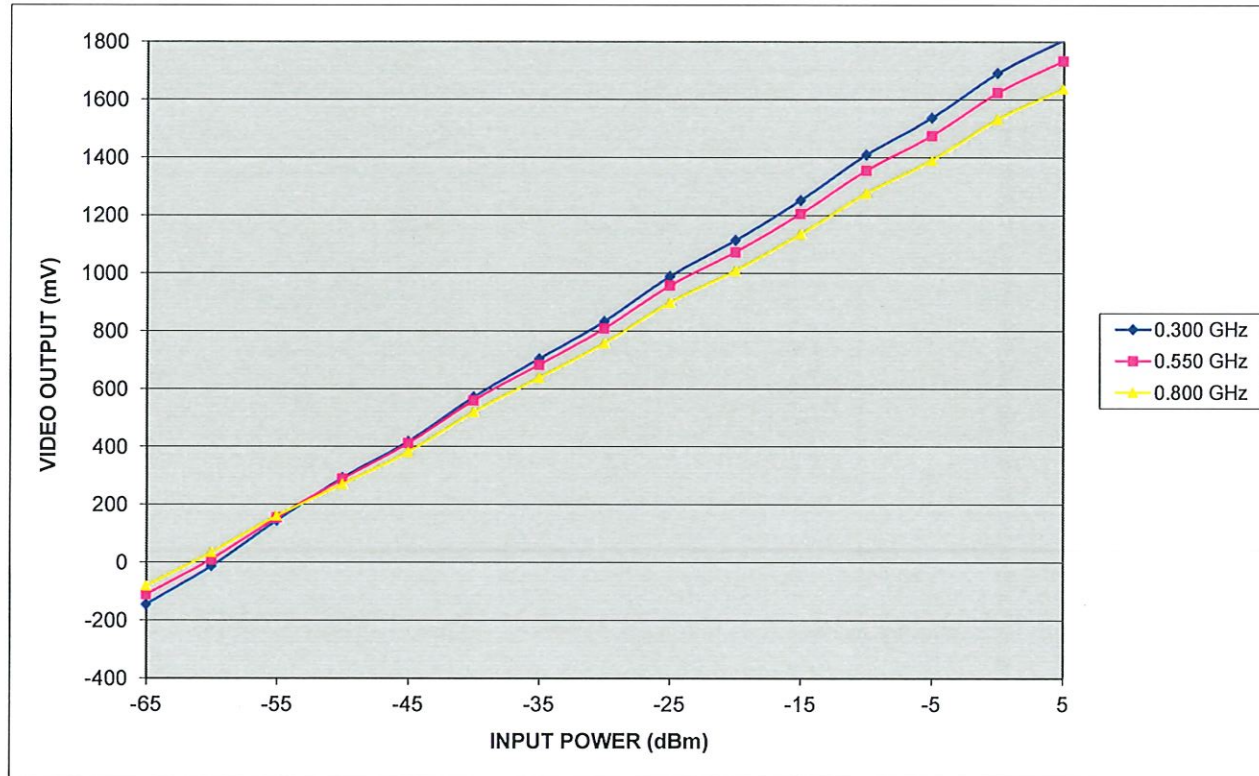
VIDEO RISE TIME 25 nS MAX @ 25C
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C
 30 nS

PROPERGATION DELAY 40 nS MAX @ 25C
 10 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -15.90 dBm
 LIMITED IF OUTPUT MIN -16.29 dBm
 LIMITED IF FLATNESS ± 0.19 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4355
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Frequency

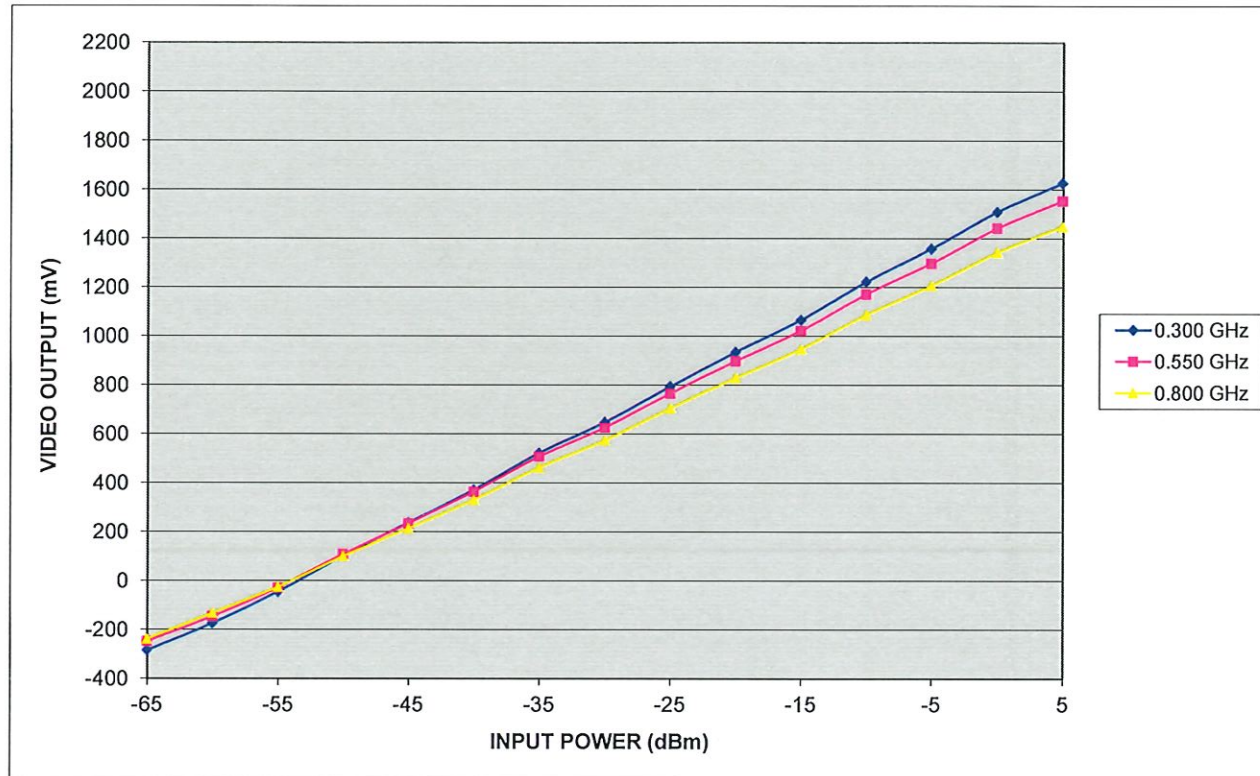
0.30 INTERCEPT (mV) 1491
 SLOPE (mV/dB) 27.74
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1423
 SLOPE (mV/dB) 26.22
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1321
 SLOPE (mV/dB) 24.42
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 1.21
 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)	-285	-175	-46	103	237	371	521	647	794	935	1065	1221	1356	1507	1625	Measured Value (mV)
0.30 Error (mV)	28	-1	-11	-1	-6	-11	2	-11	-3	-1	-9	8	4	17	-4	Error (mV)
0.30 Limited If Output (dBm)	-16.99	-16.51	-16.30	-16.19	-16.11	-16.06	-16.03	-16.02	-16.02	-16.02	-16.03	-16.04	-16.04	-16.04	-16.04	Measured Value (mV)
0.55 Measured Value (mV)	-249	-148	-30	109	233	364	506	624	765	897	1021	1170	1297	1440	1553	Measured Value (mV)
0.55 Error (mV)	32	2	-11	-4	-10	-11	0	-12	-3	-2	-9	9	4	17	-2	Error (mV)
0.55 Limited If Output (dBm)	-16.76	-16.41	-16.21	-16.09	-16.02	-15.97	-15.97	-15.99	-16.00	-16.01	-16.02	-16.02	-16.02	-16.03	-16.05	Measured Value (mV)
0.80 Measured Value (mV)	-239	-134	-27	100	212	329	461	572	704	828	945	1085	1205	1340	1447	Measured Value (mV)
0.80 Error (mV)	27	10	-5	0	-10	-15	-6	-16	-7	-5	-10	8	6	19	4	Error (mV)
0.80 Limited If Output (dBm)	-16.59	-16.23	-16.08	-16.00	-15.98	-15.98	-15.98	-15.99	-16.00	-16.01	-16.01	-16.01	-16.02	-16.03	-16.06	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.97 dBm
 LIMITED IF OUTPUT MIN -16.99 dBm
 LIMITED IF FLATNESS ± 0.51 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4355
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Frequency

0.30 INTERCEPT (mV) 1468
 SLOPE (mV/dB) 27.76
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1400
 SLOPE (mV/dB) 26.23
 LIMITED IF OUTPUT (dBm)

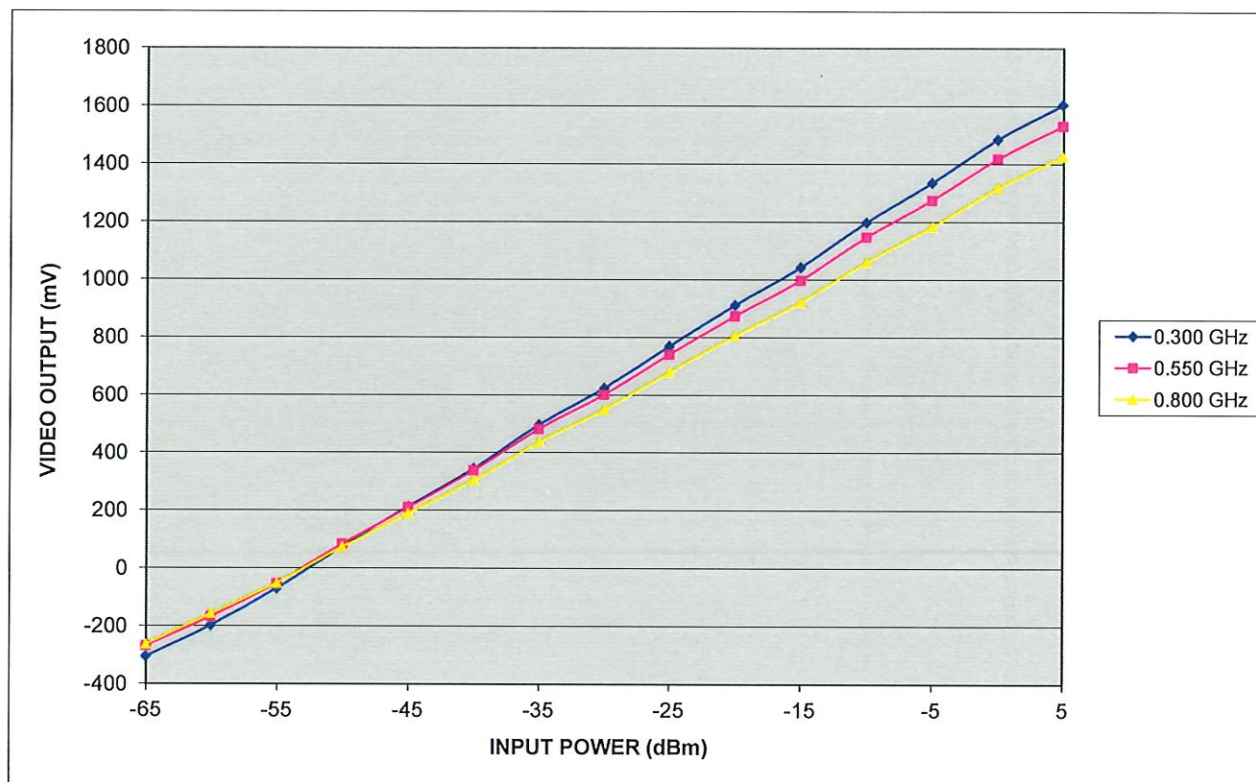
0.80 INTERCEPT (mV) 1298
 SLOPE (mV/dB) 24.46
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.33
 FREQUENCY FLATNESS ± 3.58

TSS 95C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.57V

	-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	-198	-71	76	213	345	497	624	768	911	1042	1198	1334	1484	1604	
0.30 Error (mV)	31	0	-11	-4	-6	-13	1	-11	-5	-1	-9	8	5	17	-3	
0.30 Limited IF Output (dBm)	-16.90	-16.30	-16.05	-15.93	-15.86	-15.81	-15.78	-15.76	-15.76	-15.76	-15.77	-15.77	-15.77	-15.77	-15.78	
0.55 Measured Value (mV)	-270	-169	-54	83	210	338	481	601	740	874	998	1147	1274	1418	1531	
0.55 Error (mV)	35	4	-12	-6	-10	-13	-1	-12	-5	-1	-9	9	5	17	-1	
0.55 Limited IF Output (dBm)	-16.68	-16.28	-16.06	-15.94	-15.86	-15.81	-15.81	-15.82	-15.83	-15.83	-15.84	-15.84	-15.84	-15.85	-15.88	
0.80 Measured Value (mV)	-284	-159	-53	73	189	304	436	549	678	805	922	1061	1182	1317	1425	
0.80 Error (mV)	28	11	-6	-2	-9	-16	-6	-15	-8	-4	-10	8	6	19	4	
0.80 Limited IF Output (dBm)	-16.59	-16.18	-16.00	-15.91	-15.88	-15.88	-15.88	-15.89	-16.90	-16.90	-16.90	-16.90	-16.91	-16.93	-16.96	



LIMITED IF OUTPUT MAX -15.76 dBm
 LIMITED IF OUTPUT MIN -16.90 dBm
 LIMITED IF FLATNESS ± 0.57 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4355
 TESTED BY: H. HAHN
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 2003
 SLOPE (mV/dB) 29.37
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1934
 SLOPE (mV/dB) 28.05
 LIMITED IF OUTPUT (dBm)

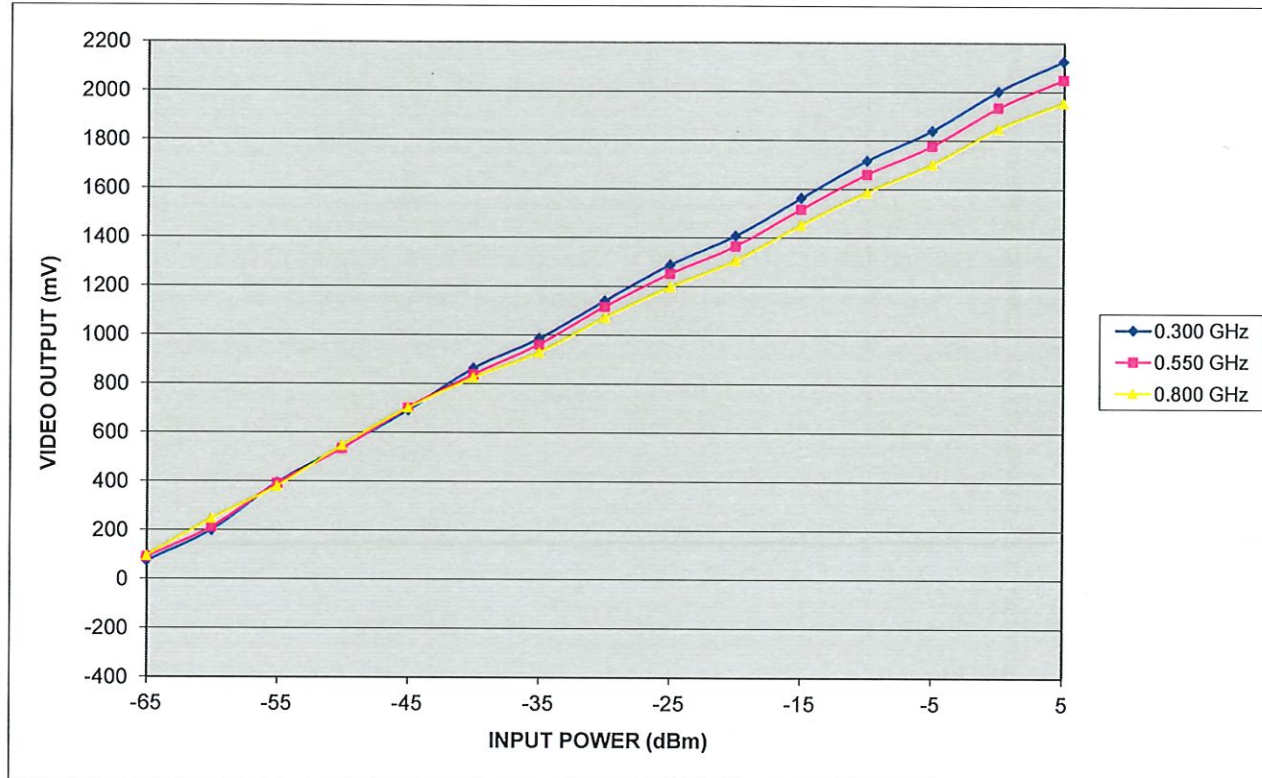
0.80 INTERCEPT (mV) 1845
 SLOPE (mV/dB) 26.33
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.52
 LINEARITY(-65 TO +5dBm) ± 1.52
 FREQUENCY FLATNESS ± 3.44

TSS -54C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.7V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	74	199	394	538	691	864	986	1141	1289	1407	1563	1716	1840	2002	2124	Measured Value (mV)
0.30 Error (mV)	-20	-42	6	4	10	36	11	19	20	-8	0	7	-16	-1	-25	Error (mV)
0.30 Measured Value (mV)	-15.39	-15.36	-15.44	-15.53	-15.59	-15.65	-15.68	-15.65	-15.68	-15.71	-15.72	-15.72	-15.73	-15.73	-15.73	Measured Value (mV)
0.55 Measured Value (mV)	90	212	391	534	701	838	961	1116	1252	1365	1517	1660	1776	1934	2048	Measured Value (mV)
0.55 Error (mV)	-22	-40	-1	2	29	26	9	23	19	-9	3	6	-18	0	-26	Error (mV)
0.55 Measured Value (mV)	-15.36	-15.35	-15.38	-15.45	-15.59	-15.55	-15.58	-15.62	-15.65	-15.67	-15.67	-15.66	-15.66	-15.67	-15.68	Measured Value (mV)
0.80 Measured Value (mV)	94	246	379	546	700	824	927	1071	1196	1305	1451	1585	1699	1847	1952	Measured Value (mV)
0.80 Error (mV)	-40	-19	-18	18	40	33	4	16	10	-13	1	4	-14	3	-24	Error (mV)
0.80 Measured Value (mV)	-15.36	-15.36	-15.39	-15.59	-15.67	-15.62	-15.67	-15.67	-15.61	-15.63	-15.61	-15.61	-15.62	-15.66	-15.72	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.35 dBm
 LIMITED IF OUTPUT MIN -15.73 dBm
 LIMITED IF FLATNESS ± 0.19 dBm