

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4350
 TESTED BY: H. HAHN
 DATE:126/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)	1579																Measured Value (mV)
	SLOPE (mV/dB)	27.62																Error (mV)
	LIMITED IF OUTPUT (dBm)	-16.65	-16.31	-16.21	-16.13	-16.08	-16.04	-16.03	-16.02	-16.02	-16.02	-16.03	-16.04	-16.04	-16.04	-16.04	-16.05	Measured Value (mV)
0.55	INTERCEPT (mV)	1511																Measured Value (mV)
	SLOPE (mV/dB)	26.18																Error (mV)
	LIMITED IF OUTPUT (dBm)	-16.56	-16.33	-16.20	-16.11	-16.04	-16.03	-16.06	-16.07	-16.08	-16.08	-16.09	-16.09	-16.09	-16.09	-16.10	-16.12	Measured Value (mV)
0.80	INTERCEPT (mV)	1412																Measured Value (mV)
	SLOPE (mV/dB)	24.4																Error (mV)
	LIMITED IF OUTPUT (dBm)	-16.44	-16.24	-16.16	-16.13	-16.11	-16.08	-16.09	-16.11	-16.12	-16.13	-16.13	-16.13	-16.13	-16.13	-16.15	-16.18	Measured Value (mV)
LINEARITY(-60 TO 0dBm)		± 0.78																
LINEARITY(-65 TO +5dBm)		± 0.88																
FREQUENCY FLATNESS		± 3.45																

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.41V

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

IF OUTPUT VSWR 2:1 MAX @ 25C
 1.25:1

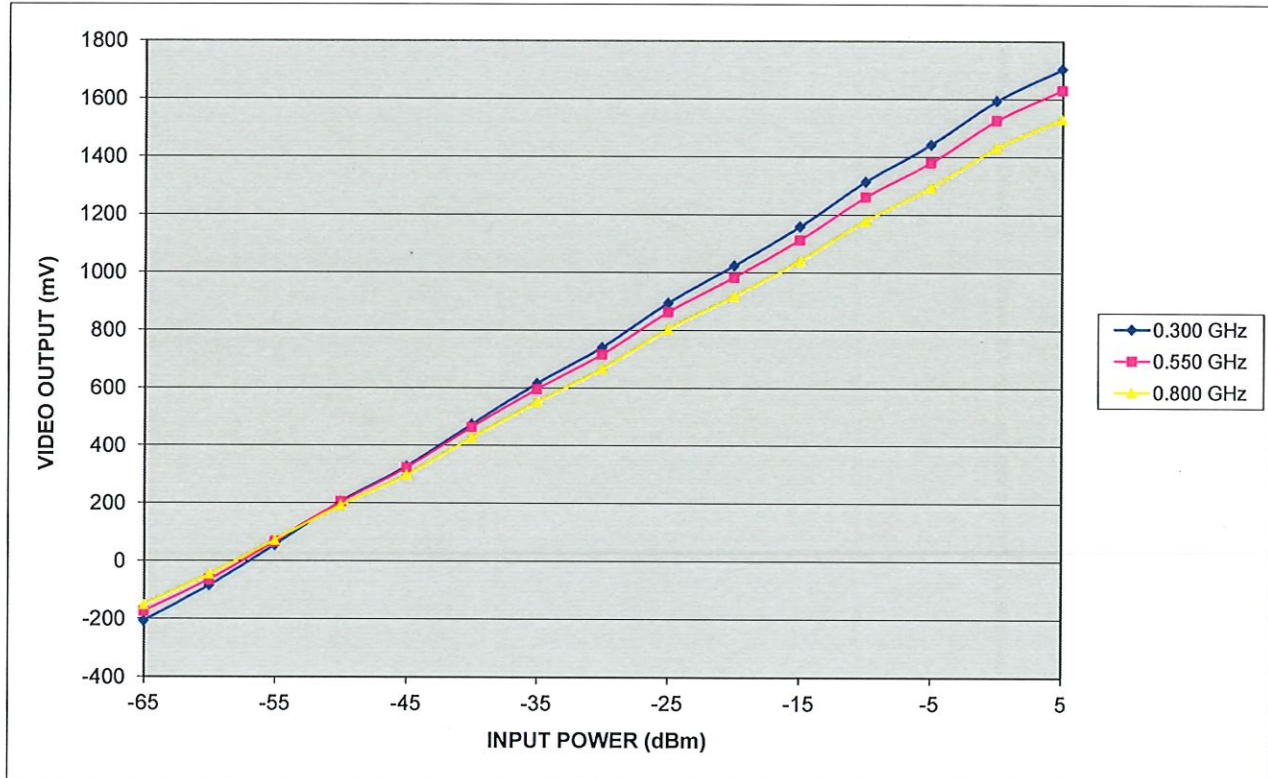
VIDEO RISE TIME 25 nS MAX @ 25C
 20 nS

VIDEO FALL TIME 80 nS MAX @ 25C
 46 nS

PROPERGATION DELAY 40 nS MAX @ 25C
 16 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.02 dBm
 LIMITED IF OUTPUT MIN -16.65 dBm
 LIMITED IF FLATNESS ± 0.32 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4350
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 DATE: 12/AUG/2008



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Frequency

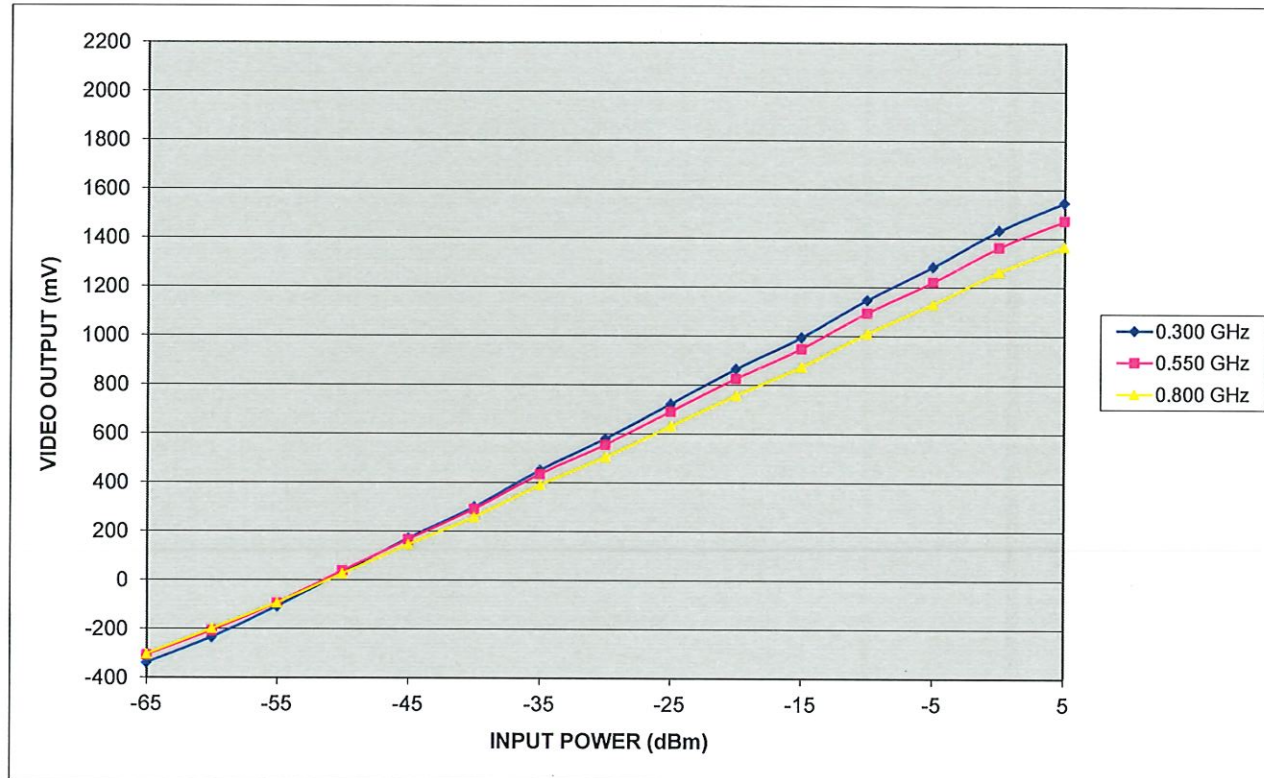
0.30 INTERCEPT (mV) 1414
 SLOPE (mV/dB) 27.48
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1346
 SLOPE (mV/dB) 25.97
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1245
 SLOPE (mV/dB) 24.25
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.35
 FREQUENCY FLATNESS ± 3.59

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-339	-234	-109	32	171	300	451	579	721	864	994	1148	1283	1432	1546	
0.30 Error (mV)	33	2	-11	-7	-6	-15	-1	-10	-5	0	-8	9	6	18	-5	
0.30 Measured Value (mV)	-17.10	-16.43	-16.16	-16.03	-15.94	-15.89	-15.86	-15.84	-15.84	-15.84	-15.84	-15.85	-15.85	-15.85	-15.86	
0.55 Measured Value (mV)	-308	-207	-95	39	167	292	435	555	691	826	948	1095	1222	1364	1472	
0.55 Error (mV)	35	5	-12	-8	-10	-15	-2	-11	-5	0	-8	9	6	18	-3	
0.55 Measured Value (mV)	-16.86	-16.41	-16.17	-16.02	-15.94	-15.90	-15.89	-15.90	-15.90	-15.91	-15.92	-15.92	-15.92	-15.93	-15.96	
0.80 Measured Value (mV)	-305	-200	-95	27	146	258	390	504	631	757	873	1010	1130	1263	1366	
0.80 Error (mV)	27	11	-6	-5	-8	-17	-5	-13	-8	-3	-8	8	7	18	1	
0.80 Measured Value (mV)	-16.79	-16.31	-16.10	-15.99	-15.95	-15.95	-15.96	-15.97	-15.97	-15.97	-15.97	-15.98	-15.98	-15.99	-16.02	



LIMITED IF OUTPUT MAX -15.84 dBm
 LIMITED IF OUTPUT MIN -17.10 dBm
 LIMITED IF FLATNESS ± 0.63 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4350
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Frequency

0.30 INTERCEPT (mV) 1396
 SLOPE (mV/dB) 27.51
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1327
 SLOPE (mV/dB) 25.99
 LIMITED IF OUTPUT (dBm)

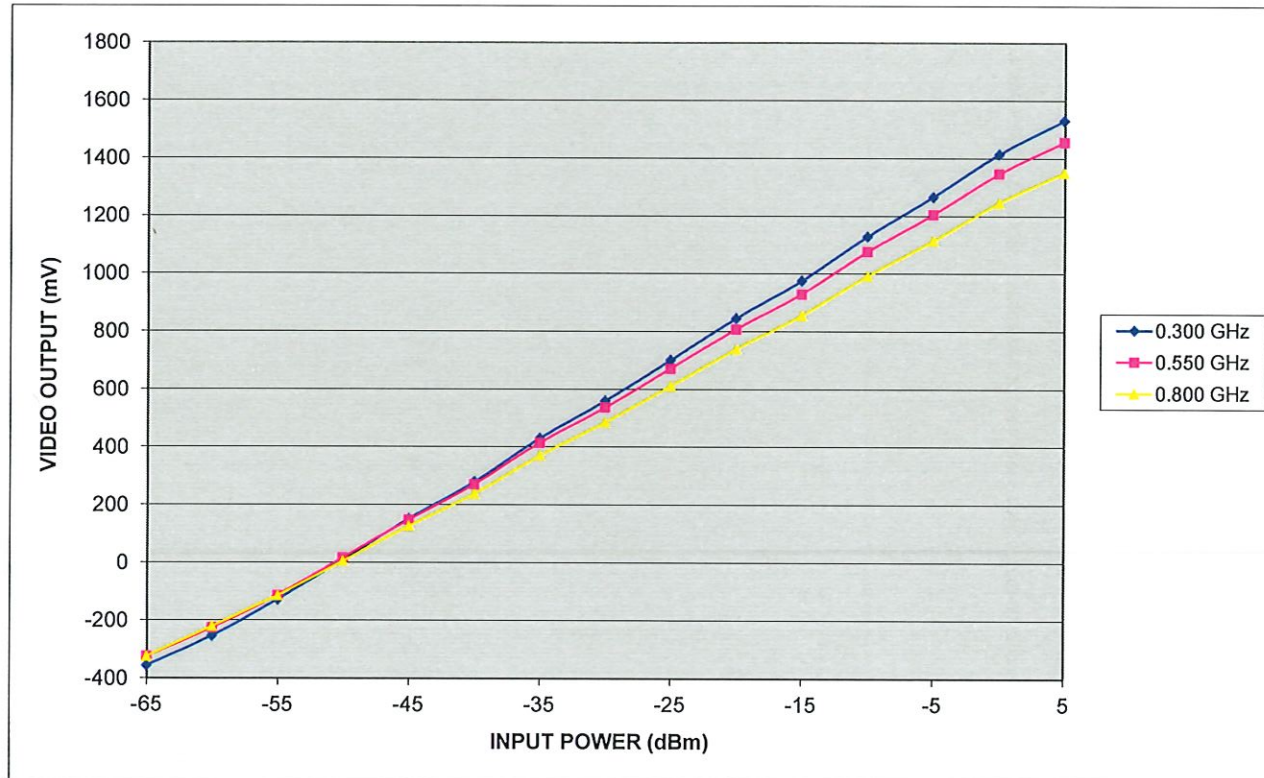
0.80 INTERCEPT (mV) 1226
 SLOPE (mV/dB) 24.29
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.44
 FREQUENCY FLATNESS ± 3.62

TSS 95C
 -65dBm MAX -67 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)	-356	-253	-128	10	152	279	430	560	701	846	975	1129	1265	1414	1530	Measured Value (mV)
0.30 Error (mV)	37	2	-11	-10	-6	-16	-3	-10	-7	0	-8	8	7	18	-3	Error (mV)
0.30 Limited If Output (dBm)	-17.38	-16.66	-16.34	-16.20	-16.11	-16.06	-16.02	-16.01	-16.00	-16.00	-16.00	-16.01	-16.01	-16.01	-16.02	Measured Value (mV)
0.55 Measured Value (mV)	-325	-225	-114	18	148	271	415	537	671	807	930	1076	1204	1346	1456	Measured Value (mV)
0.55 Error (mV)	37	7	-12	-10	-10	-16	-3	-11	-6	0	-8	9	7	18	-2	Error (mV)
0.55 Limited If Output (dBm)	-17.12	-16.62	-16.35	-16.29	-16.17	-16.12	-16.07	-16.06	-16.06	-16.07	-16.08	-16.08	-16.08	-16.09	-16.12	Measured Value (mV)
0.80 Measured Value (mV)	-325	-221	-115	5	126	238	370	485	611	738	854	991	1112	1244	1349	Measured Value (mV)
0.80 Error (mV)	28	10	-5	-6	-7	-17	-6	-12	-8	-2	-8	7	7	18	1	Error (mV)
0.80 Limited If Output (dBm)	-17.06	-16.53	-16.29	-16.17	-16.12	-16.12	-16.13	-16.13	-16.13	-16.14	-16.14	-16.14	-16.15	-16.16	-16.19	Measured Value (mV)



LIMITED IF OUTPUT MAX -16.00 dBm
 LIMITED IF OUTPUT MIN -17.38 dBm
 LIMITED IF FLATNESS ± 0.69 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4350
 TESTED BY: H. HAHN
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1861
 SLOPE (mV/dB) 28.93
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1791
 SLOPE (mV/dB) 27.44
 LIMITED IF OUTPUT (dBm)

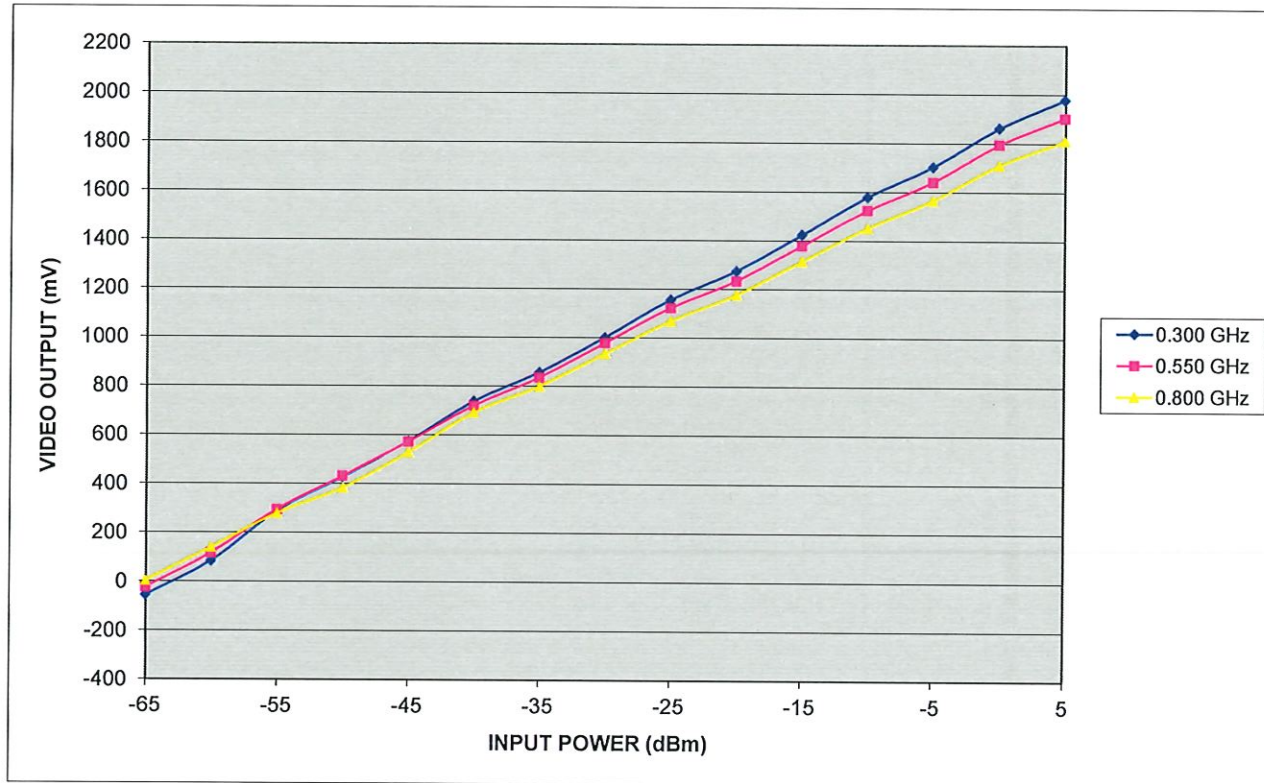
0.80 INTERCEPT (mV) 1702
 SLOPE (mV/dB) 25.99
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.40
 LINEARITY(-65 TO +5dBm) ± 1.40
 FREQUENCY FLATNESS ± 3.36

TSS -54C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.61V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-55	84	289	427	573	738	857	1001	1157	1275	1424	1579	1703	1862	1978	
0.30 Error (mV)	-35	-41	19	13	14	35	9	9	19	-7	-3	8	-13	1	-28	
0.30 Measured Value (mV)	-15.84	-15.79	-15.94	-15.99	-15.96	-15.97	-16.01	-16.00	-15.99	-16.01	-16.02	-16.03	-16.04	-16.04	-16.04	
0.55 Measured Value (mV)	-24	116	294	430	571	720	835	978	1122	1234	1379	1525	1641	1795	1903	
0.55 Error (mV)	-31	-29	12	11	15	26	5	10	17	-9	-1	8	-13	4	-25	
0.55 Measured Value (mV)	-15.77	-15.78	-15.82	-15.86	-15.91	-15.97	-15.93	-15.92	-15.96	-15.98	-15.97	-15.97	-15.96	-15.97	-15.99	
0.80 Measured Value (mV)	3	139	278	383	527	691	798	933	1068	1176	1314	1451	1564	1710	1810	
0.80 Error (mV)	-11	-5	5	-20	-6	28	5	10	15	-7	1	8	-8	8	-23	
0.80 Measured Value (mV)	-15.75	-15.74	-15.76	-15.79	-15.77	-15.87	-15.88	-15.87	-15.91	-15.92	-15.92	-15.91	-15.91	-15.93	-16.00	



LIMITED IF OUTPUT MAX -15.74 dBm
 LIMITED IF OUTPUT MIN -16.04 dBm
 LIMITED IF FLATNESS ± 0.15 dBm