

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4356  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA  
 TEL: 301-631-1579 FAX: 301-662-2029  
 URL: WWW.PLANARMONOLITHICS.COM  
 EMAIL: SALES@PLANARMONOLITHICS.COM  
 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)	1649																Measured Value (mV)
SLOPE (mV/dB)	28.07																Error (mV)
LIMITED IF OUTPUT (dBm)	-16.34	-16.06	-15.97	-15.90	-15.85	-15.82	-15.80	-15.80	-15.80	-15.80	-15.81	-15.82	-15.82	-15.82	-15.83		Measured Value (mV)
0.55 INTERCEPT (mV)	1573																Measured Value (mV)
SLOPE (mV/dB)	26.53																Error (mV)
LIMITED IF OUTPUT (dBm)	-16.27	-16.07	-15.95	-15.86	-15.80	-15.80	-15.82	-15.84	-15.84	-15.86	-15.86	-15.86	-15.86	-15.87	-15.89		Measured Value (mV)
0.80 INTERCEPT (mV)	1469																Measured Value (mV)
SLOPE (mV/dB)	24.71																Error (mV)
LIMITED IF OUTPUT (dBm)	-16.15	-15.97	-15.90	-15.87	-15.86	-15.84	-15.85	-15.86	-15.88	-15.89	-15.89	-15.89	-15.90	-15.91	-15.94		Measured Value (mV)
LINEARITY(-60 TO 0dBm)																	± 0.80
LINEARITY(-65 TO +5dBm)																	± 0.95
FREQUENCY FLATNESS																	± 3.70

TSS 25C  
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.7V

INPUT VSWR 2:1 MAX @ 25C  
 1.20:1

IF OUTPUT VSWR 2:1 MAX @ 25C  
 1.27:1

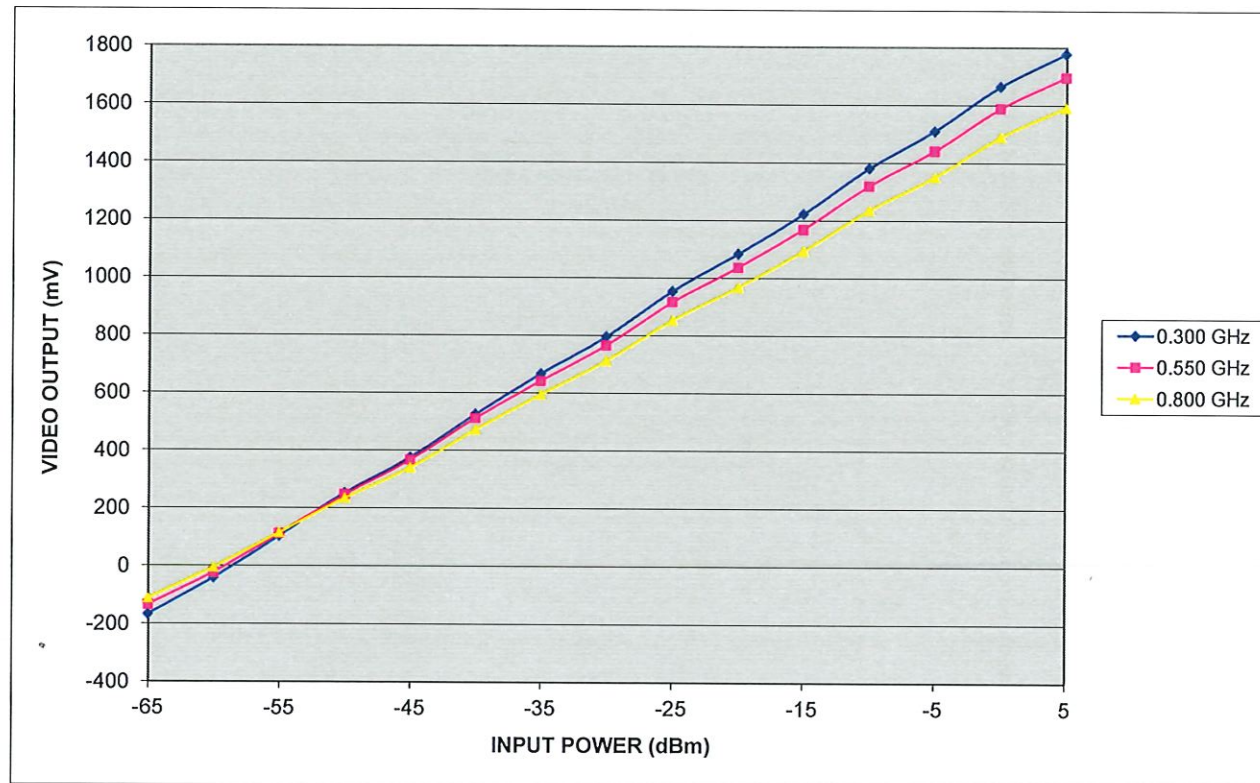
VIDEO RISE TIME 25 nS MAX @ 25C  
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C  
 32 nS

PROPAGATION 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 -15.80 dBm  
 LIMITED IF OUTPUT MIN -16.34 dBm  
 LIMITED IF FLATNESS ± 0.27 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4356  
 TESTED BY: H. HAHN  
 DATE: 12/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA  
 TEL: 301-631-1579 FAX: 301-662-2029  
 URL: WWW.PLANARMONOLITHICS.COM  
 EMAIL: SALES@PLANARMONOLITHICS.COM  
 ISO 9001:2000 CERTIFIED

Frequency

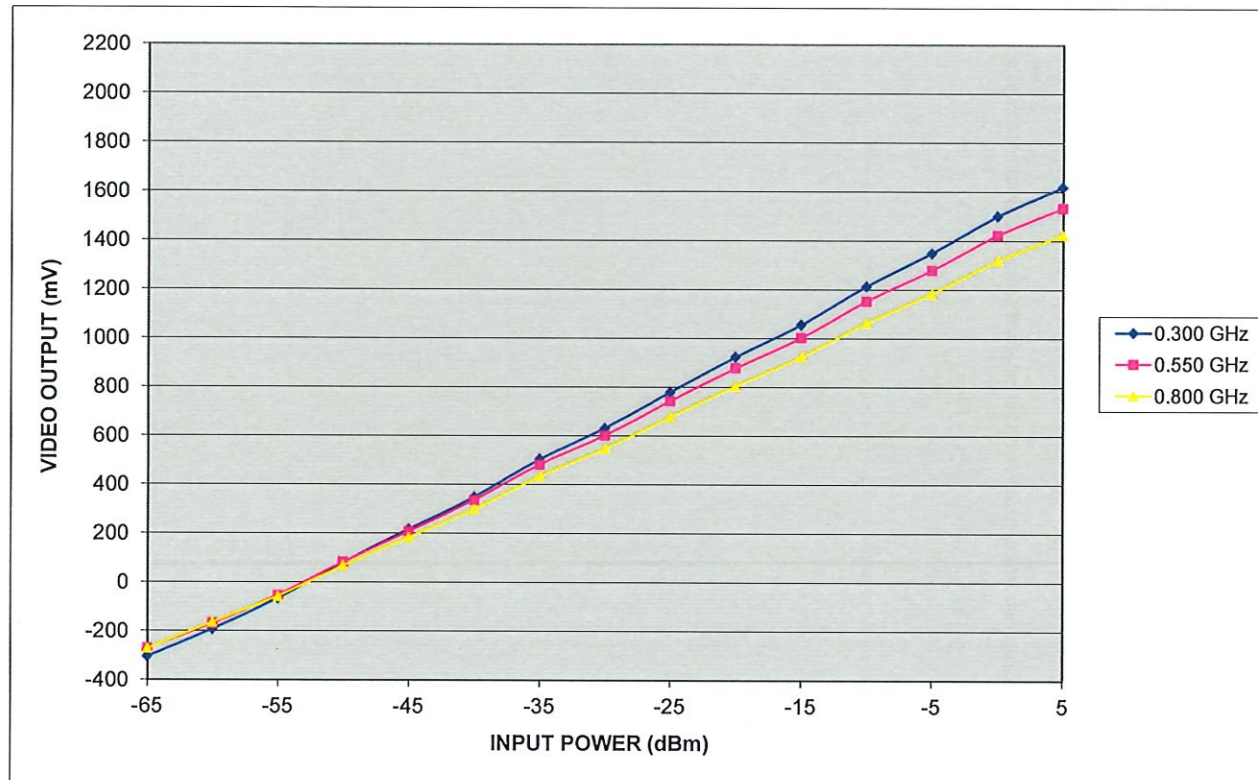
0.30 INTERCEPT (mV)    1483  
 SLOPE (mV/dB)        27.98  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1405  
 SLOPE (mV/dB)        26.34  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1299  
 SLOPE (mV/dB)        24.6  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.76  
 LINEARITY(-65 TO +5dBm) ± 1.36  
 FREQUENCY FLATNESS        ± 3.88

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-304	-193	-67	81	216	349	503	631	778	923	1055	1213	1349	1500	1618	
0.30 Error (mV)	31	3	-11	-4	-8	-15	-1	-12	-5	0	-8	10	6	17	-5	
0.30 Limited IF Output (dBm)	-16.50	-15.92	-15.69	-15.67	-15.49	-15.43	-15.40	-15.39	-15.39	-15.39	-15.40	-15.41	-15.41	-15.41	-15.41	
0.55 Measured Value (mV)	-271	-169	-55	82	208	335	481	601	742	877	1002	1152	1279	1423	1535	
0.55 Error (mV)	36	6	-12	-6	-12	-16	-2	-14	-5	-1	-8	11	6	18	-2	
0.55 Limited IF Output (dBm)	-16.30	-15.90	-15.68	-15.65	-15.47	-15.44	-15.43	-15.44	-15.45	-15.46	-15.46	-15.47	-15.47	-15.48	-15.50	
0.80 Measured Value (mV)	-272	-165	-59	67	183	298	432	546	676	804	922	1063	1184	1318	1424	
0.80 Error (mV)	28	11	-5	-2	-9	-18	-6	-16	-8	-4	-8	9	7	19	2	
0.80 Limited IF Output (dBm)	-16.24	-15.80	-15.60	-15.49	-15.47	-15.48	-15.49	-15.49	-15.50	-15.50	-15.50	-15.50	-15.51	-15.52	-15.54	



LIMITED IF OUTPUT MAX    -15.39 dBm  
 LIMITED IF OUTPUT MIN    -16.50 dBm  
 LIMITED IF FLATNESS        ± 0.56 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4356  
 TESTED BY: H. HAHN  
 DATE: 12/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA  
 TEL: 301-631-1579 FAX: 301-652-2029  
 URL: WWW.PLANARMONOLITHICS.COM  
 EMAIL: SALES@PLANARMONOLITHICS.COM  
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV)    1461  
 SLOPE (mV/dB)        28.02  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1383  
 SLOPE (mV/dB)        26.36  
 LIMITED IF OUTPUT (dBm)

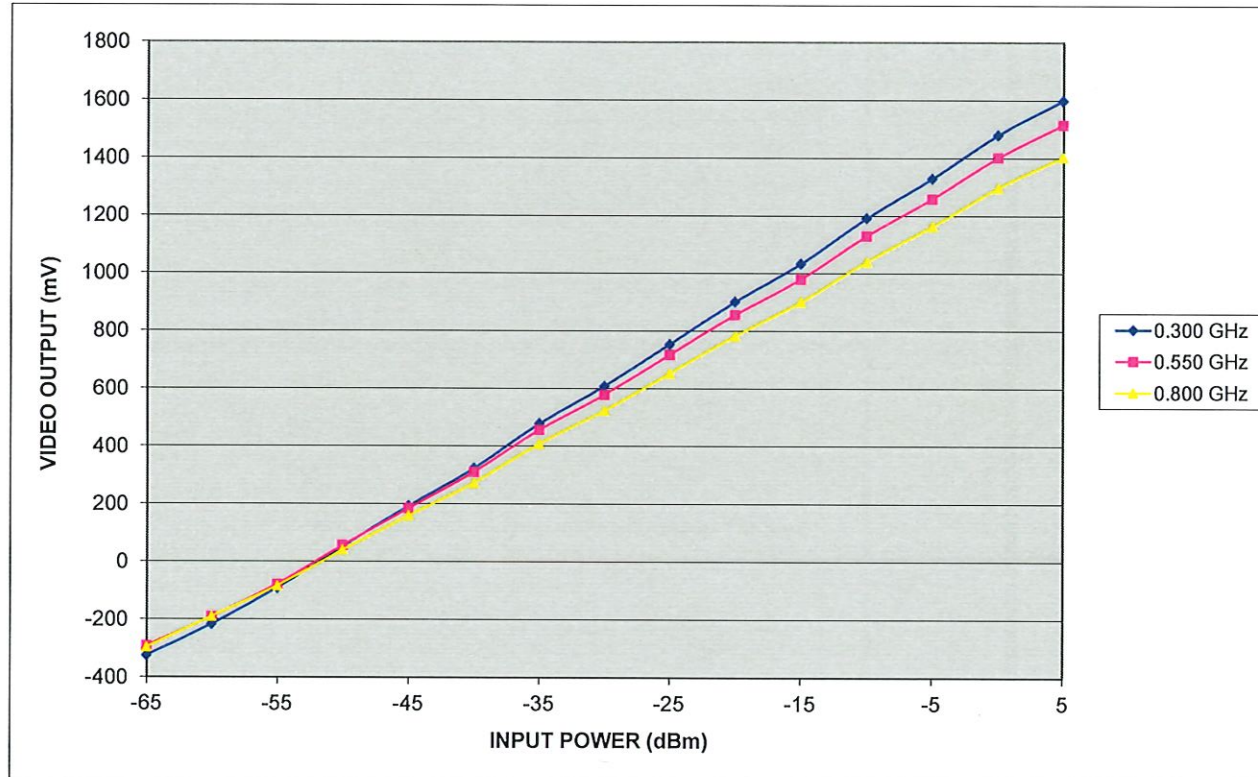
0.80 INTERCEPT (mV)    1277  
 SLOPE (mV/dB)        24.65  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.75  
 LINEARITY(-65 TO +5dBm) ± 1.45  
 FREQUENCY FLATNESS        ± 3.91

TSS                    95C  
 -65dBm MAX        -67 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX            2.66V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-325	-216	-91	54	193	324	478	608	754	901	1033	1191	1328	1479	1598	Measured Value (mV)
0.30 Error (mV)	35	4	-11	-7	-7	-17	-2	-12	-7	0	-8	10	7	18	-3	Error (mV)
0.30 Limited If Output (dBm)	-16.78	-16.13	-15.86	-15.72	-15.64	-15.59	-15.55	-15.54	-15.54	-15.54	-15.55	-15.55	-15.55	-15.55	-15.56	Measured Value (mV)
0.55 Measured Value (mV)	-292	-191	-79	57	185	311	457	578	717	855	979	1129	1258	1401	1514	Measured Value (mV)
0.55 Error (mV)	38	8	-12	-8	-12	-18	-3	-14	-7	-1	-8	10	7	19	0	Error (mV)
0.55 Limited If Output (dBm)	-16.64	-16.10	-15.86	-15.71	-15.62	-15.59	-15.58	-15.59	-15.60	-15.61	-15.61	-15.61	-15.62	-15.63	-15.65	Measured Value (mV)
0.80 Measured Value (mV)	-297	-191	-84	41	160	273	408	523	652	781	899	1039	1161	1295	1402	Measured Value (mV)
0.80 Error (mV)	28	11	-5	-4	-8	-18	-6	-15	-9	-3	-8	9	8	18	2	Error (mV)
0.80 Limited If Output (dBm)	-16.50	-16.01	-15.78	-15.66	-15.62	-15.63	-15.64	-15.65	-15.65	-15.65	-15.65	-15.65	-15.66	-15.67	-15.69	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.54 dBm  
 LIMITED IF OUTPUT MIN    -16.78 dBm  
 LIMITED IF FLATNESS        ± 0.62 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4356  
 TESTED BY: H. HAHN  
 DATE: 12/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA  
 TEL: 301-631-1579 FAX: 301-662-2029  
 URL: WWW.PLANARMONOLITHICS.COM  
 EMAIL: SALES@PLANARMONOLITHICS.COM  
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1942  
 SLOPE (mV/dB) 29.26  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1868  
 SLOPE (mV/dB) 27.74  
 LIMITED IF OUTPUT (dBm)

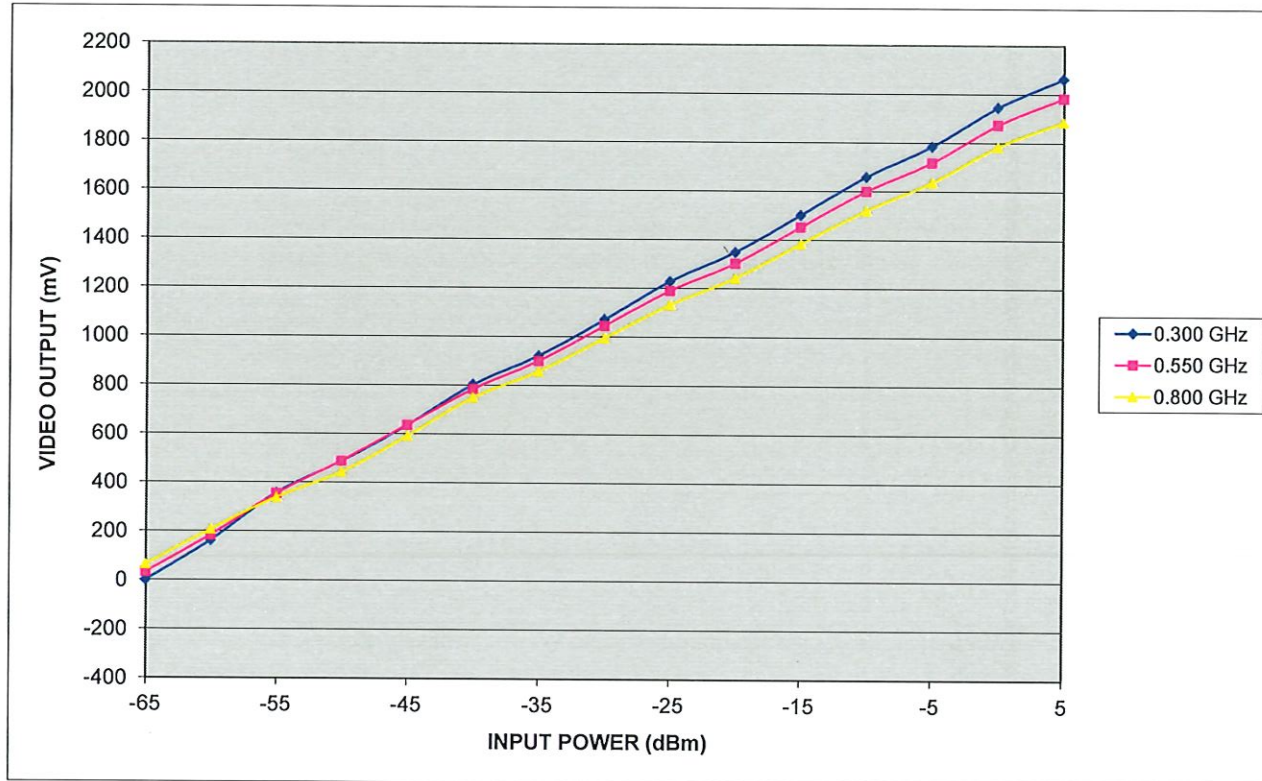
0.80 INTERCEPT (mV) 1773  
 SLOPE (mV/dB) 26.17  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.06  
 LINEARITY(-65 TO +5dBm) ± 1.40  
 FREQUENCY FLATNESS ± 3.56

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)	-1	162	357	487	635	803	922	1071	1228	1349	1502	1658	1784	1945	2063	
0.30 Error (mV)	-41	-24	24	8	9	31	4	7	18	-8	-1	9	-12	3	-26	
0.30 Limited If Output (dBm)	-15.42	-15.49	-15.69	-15.74	-15.69	-15.71	-15.73	-15.72	-15.72	-15.75	-15.76	-15.77	-15.77	-15.77	-15.78	
0.55 Measured Value (mV)	32	183	354	488	636	784	900	1045	1190	1303	1453	1600	1717	1873	1983	
0.55 Error (mV)	-33	-21	11	7	16	26	2	9	15	-10	0	9	-12	5	-24	
0.55 Limited If Output (dBm)	-16.40	-15.48	-15.65	-15.56	-15.60	-15.66	-15.64	-15.65	-15.68	-15.70	-15.70	-15.69	-15.69	-15.70	-15.70	
0.80 Measured Value (mV)	63	206	338	443	591	749	857	995	1131	1241	1383	1521	1635	1783	1885	
0.80 Error (mV)	-9	3	4	-22	-4	23	0	7	12	-9	2	9	-7	10	-20	
0.80 Limited If Output (dBm)	-16.39	-16.44	-16.48	-16.51	-16.44	-16.59	-16.58	-16.59	-16.62	-16.64	-16.64	-16.63	-16.63	-16.65	-16.70	



LIMITED IF OUTPUT MAX -15.39 dBm  
 LIMITED IF OUTPUT MIN -15.78 dBm  
 LIMITED IF FLATNESS ± 0.19 dBm