

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4343  
 TESTED BY: H. HAHN  
 DATE: 11/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) 1632  
 SLOPE (mV/dB) 28.24  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1566  
 SLOPE (mV/dB) 26.8  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1465  
 SLOPE (mV/dB) 24.98  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76  
 LINEARITY(-65 TO +5dBm) ± 0.88  
 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)	-196	-70	76	229	353	503	646	774	931	1062	1200	1359	1490	1646	1763	
0.30 Error (mV)	9	-7	-3	9	-8	1	3	-10	5	-5	-8	10	0	14	-10	
0.30 Measured Value (mV)	-16.63	-16.36	-16.28	-16.22	-16.17	-16.13	-16.11	-16.10	-16.10	-16.10	-16.11	-16.11	-16.12	-16.12	-16.13	
0.55 Measured Value (mV)	-161	-47	89	229	351	495	628	752	902	1025	1157	1309	1432	1581	1693	
0.55 Error (mV)	15	-5	-3	3	-10	1	0	-10	6	-6	-8	11	-1	15	-8	
0.55 Measured Value (mV)	-16.64	-16.37	-16.26	-16.17	-16.11	-16.09	-16.13	-16.14	-16.15	-16.16	-16.16	-16.16	-16.16	-16.17	-16.19	
0.80 Measured Value (mV)	-137	-27	94	216	322	457	582	700	841	957	1083	1225	1342	1484	1590	
0.80 Error (mV)	22	7	4	0	-18	-9	-8	-15	1	-8	-8	10	2	19	1	
0.80 Measured Value (mV)	-16.45	-16.29	-16.23	-16.21	-16.18	-16.13	-16.14	-16.17	-16.19	-16.20	-16.20	-16.19	-16.20	-16.21	-16.25	

TSS 25C  
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C  
 2.7V MAX 2.50V

INPUT VSWR  
 2:1 MAX @ 25C 1.17:1

IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.39:1

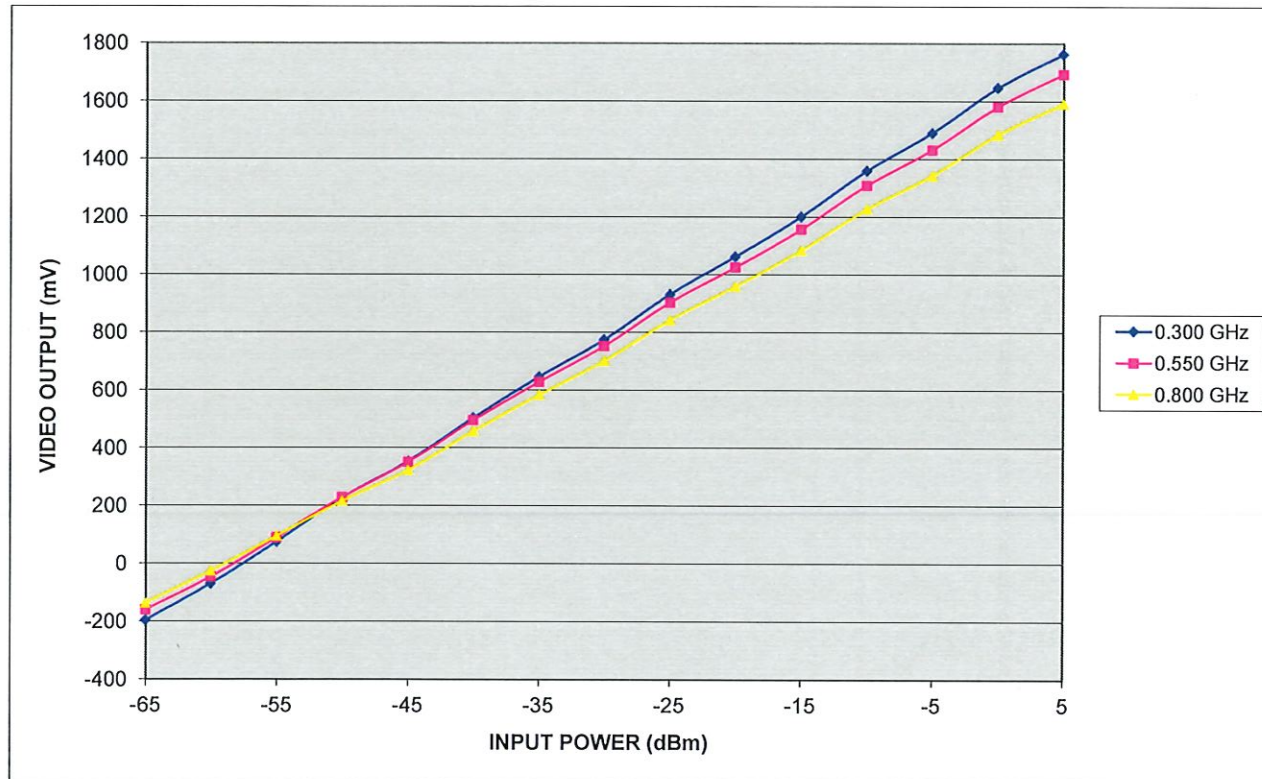
VIDEO RISE TIME  
 25 nS MAX @ 25C 20 nS

VIDEO FALL TIME  
 80 nS MAX @ 25C 44 nS

PROPAGATION DELAY  
 40 nS MAX @ 25C 16 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



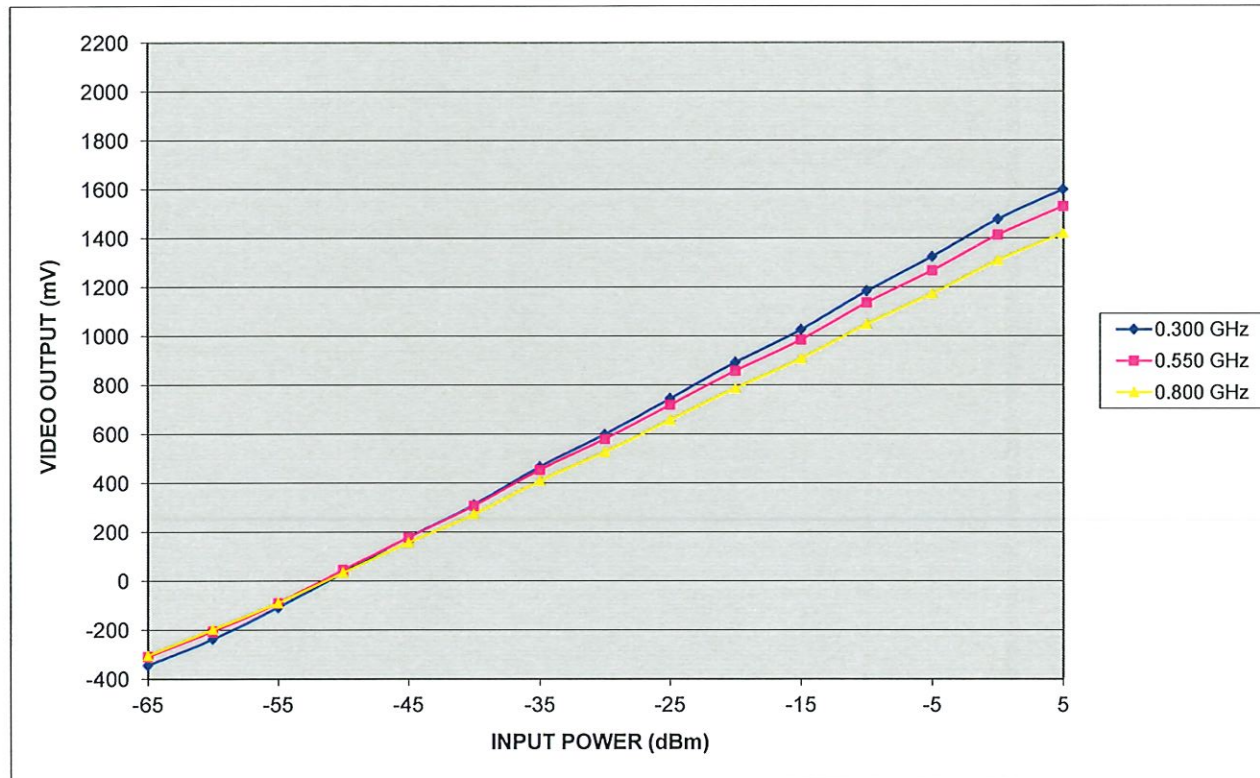
LIMITED IF OUTPUT MAX -16.09 dBm  
 LIMITED IF OUTPUT MIN -16.63 dBm  
 LIMITED IF FLATNESS ± 0.27 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4343  
 TESTED BY: H. HAHN  
 DATE: 11/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)	1459																Measured Value (mV)
	SLOPE (mV/dB)	28.3																Error (mV)
	LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.55	INTERCEPT (mV)	1394																Measured Value (mV)
	SLOPE (mV/dB)	26.8																Error (mV)
	LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.80	INTERCEPT (mV)	1289																Measured Value (mV)
	SLOPE (mV/dB)	25																Error (mV)
	LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
LINEARITY(-60 TO 0dBm)		± 0.73																
LINEARITY(-65 TO +5dBm)		± 1.41																
FREQUENCY FLATNESS		± 3.61																



LIMITED IF OUTPUT MAX -15.79 dBm  
 LIMITED IF OUTPUT MIN -17.02 dBm  
 LIMITED IF FLATNESS ± 0.62 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4343  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



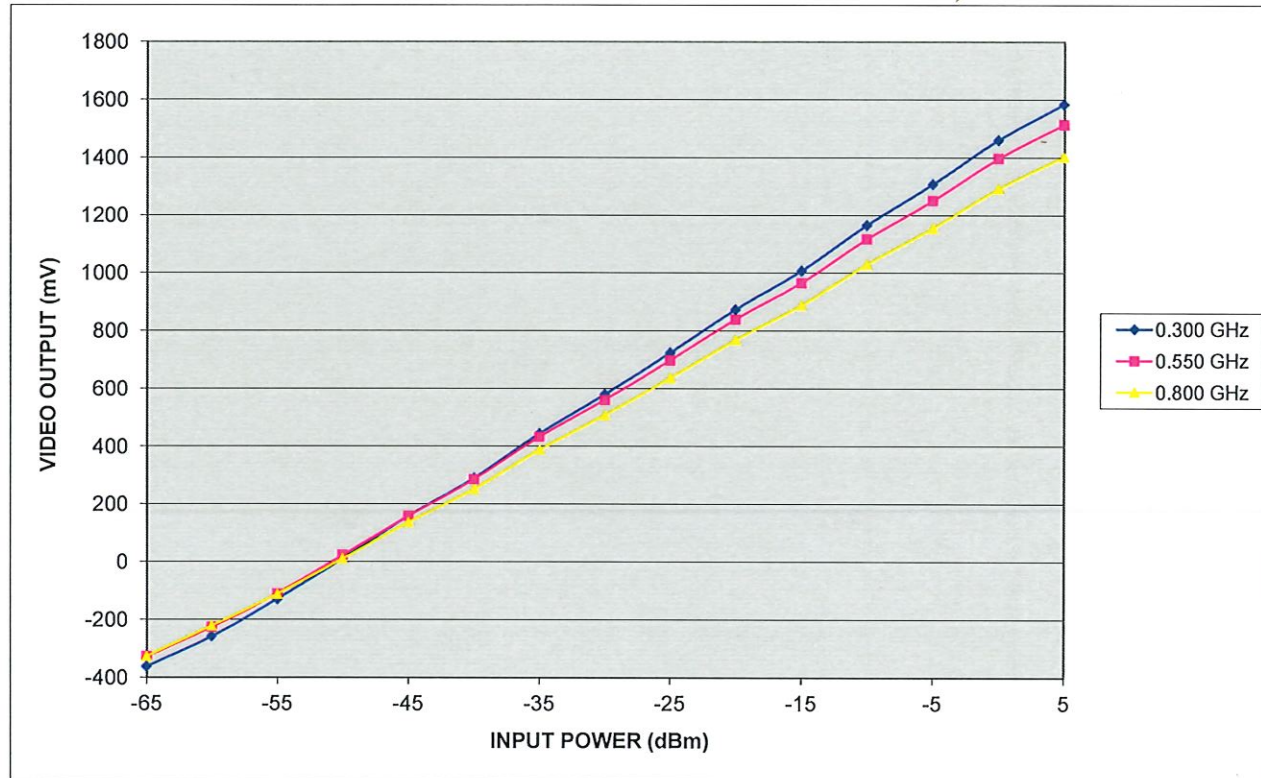
PLANAR MONOLITHICS INDUSTRIES  
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA  
 TEL: 301-631-1579 FAX: 301-662-2029  
 URL: WWW.PLANARMONOLITHICS.COM  
 EMAIL: SALES@PLANARMONOLITHICS.COM  
 ISO 9001:2000 CERTIFIED

Frequency			-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30	INTERCEPT (mV)	1441	-362	-258	-130	12	158	289	444	579	723	873	1007	1165	1306	1459	1583	Measured Value (mV)
	SLOPE (mV/dB)	28.36	41	3	-11	-11	-6	-17	-4	-11	-9	0	-9	7	7	19	0	Error (mV)
	LIMITED IF OUTPUT (dBm)		-17.27	-16.57	-16.27	-16.12	-16.03	-15.97	-15.94	-15.92	-15.91	-15.91	-15.92	-15.92	-15.92	-15.92	-15.93	-15.93
0.55	INTERCEPT (mV)	1377	-328	-227	-112	23	158	285	433	560	698	839	965	1116	1250	1395	1513	Measured Value (mV)
	SLOPE (mV/dB)	26.85	41	8	-12	-11	-11	-17	-4	-11	-8	-1	-9	8	7	18	2	Error (mV)
	LIMITED IF OUTPUT (dBm)		-17.00	-16.52	-16.26	-16.11	-16.02	-15.97	-15.95	-15.96	-15.97	-15.98	-15.98	-15.99	-15.99	-16.00	-16.02	-16.02
0.80	INTERCEPT (mV)	1271	-328	-223	-113	10	136	251	387	506	635	767	887	1027	1153	1289	1401	Measured Value (mV)
	SLOPE (mV/dB)	25.08	31	11	-5	-7	-7	-18	-7	-13	-10	-3	-9	7	7	18	4	Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.95	-16.43	-16.20	-16.07	-16.02	-16.02	-16.03	-16.04	-16.04	-16.04	-16.04	-16.04	-16.04	-16.05	-16.06	-16.10

LINEARITY(-60 TO 0dBm) ± 0.72  
 LINEARITY(-65 TO +5dBm) ± 1.52  
 FREQUENCY FLATNESS ± 3.64

TSS 95C  
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 95C  
 2.7V MAX 2.39V



LIMITED IF OUTPUT MAX -15.91 dBm  
 LIMITED IF OUTPUT MIN -17.27 dBm  
 LIMITED IF FLATNESS ± 0.68 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4343  
 TESTED BY: H. HAHN  
 DATE: 11/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) 1921  
 SLOPE (mV/dB) 29.36  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1853  
 SLOPE (mV/dB) 27.9  
 LIMITED IF OUTPUT (dBm)

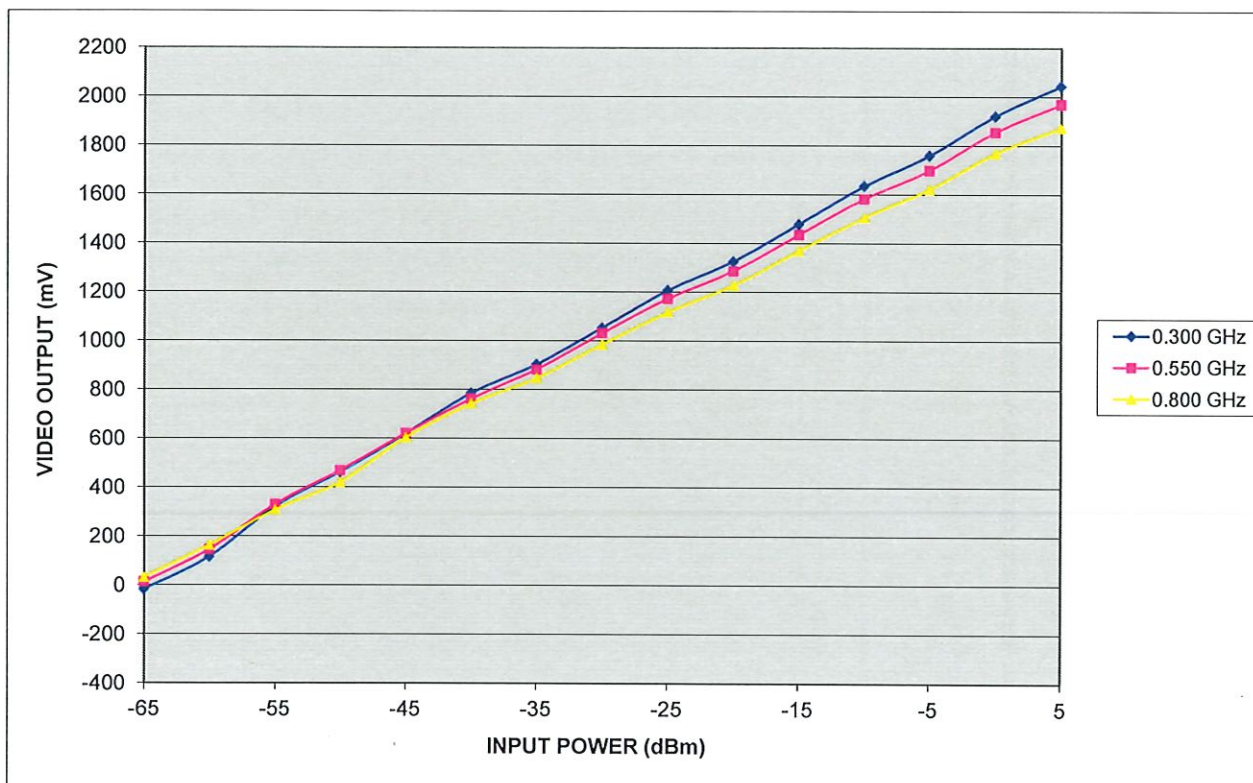
0.80 INTERCEPT (mV) 1763  
 SLOPE (mV/dB) 26.41  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.54  
 LINEARITY(-65 TO +5dBm) ± 1.54  
 FREQUENCY FLATNESS ± 3.42

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-18	116	320	463	619	785	904	1053	1207	1326	1478	1634	1759	1920	2043	
0.30 Error (mV)	-30	-45	13	9	19	38	10	13	19	-8	-2	6	-16	-1	-25	
0.30 Limited IF Output (dBm)	-15.62	-15.67	-15.79	-15.91	-15.97	-15.97	-16.01	-15.97	-15.97	-16.00	-16.02	-16.02	-16.04	-16.04	-16.04	
0.55 Measured Value (mV)	12	144	328	467	620	763	882	1032	1173	1286	1435	1581	1698	1855	1969	
0.55 Error (mV)	-28	-35	9	9	22	25	5	15	17	-9	0	7	-16	2	-24	
0.55 Limited IF Output (dBm)	-15.49	-15.67	-15.68	-15.78	-15.93	-15.92	-15.87	-15.89	-15.93	-15.95	-15.95	-15.95	-15.95	-15.96	-15.97	
0.80 Measured Value (mV)	29	162	305	420	602	742	846	985	1116	1226	1368	1505	1620	1767	1872	
0.80 Error (mV)	-17	-16	-5	-23	27	35	7	14	13	-9	1	6	-12	4	-24	
0.80 Limited IF Output (dBm)	-15.49	-15.67	-15.66	-15.76	-15.83	-15.89	-15.87	-15.86	-15.89	-15.91	-15.90	-15.89	-15.90	-15.93	-16.01	

TSS -54C  
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.7V



LIMITED IF OUTPUT MAX -15.49 dBm  
 LIMITED IF OUTPUT MIN -16.04 dBm  
 LIMITED IF FLATNESS ± 0.28 dBm