

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4327
 TESTED BY: H. HAHN
 DATE:116/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1592
 SLOPE (mV/dB) 28.19
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1531
 SLOPE (mV/dB) 26.81
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1431
 SLOPE (mV/dB) 25
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 0.98
 FREQUENCY FLATNESS ± 3.35

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-226	-104	35	190	316	461	609	736	891	1026	1161	1320	1453	1607	1723	Measured Value (mV)
0.30 Error (mV)	14	-5	-7	8	-8	-4	4	-10	3	-3	-8	10	1	15	-11	Error (mV)
0.30 Limited IF Output (dBm)	-16.54	-16.19	-16.08	-16.00	-15.95	-15.90	-15.88	-15.87	-15.87	-15.87	-15.88	-15.89	-15.89	-15.89	-15.90	Measured Value (mV)
0.55 Measured Value (mV)	-193	-82	49	192	313	455	594	716	865	991	1121	1273	1397	1545	1656	Measured Value (mV)
0.55 Error (mV)	19	-4	-7	2	-11	-3	2	-10	5	-3	-8	11	1	14	-9	Error (mV)
0.55 Limited IF Output (dBm)	-16.44	-16.20	-16.07	-15.97	-15.88	-15.86	-15.90	-15.92	-15.92	-15.93	-15.94	-15.93	-15.93	-15.94	-15.96	Measured Value (mV)
0.80 Measured Value (mV)	-170	-62	55	182	288	419	550	666	806	925	1049	1191	1309	1450	1555	Measured Value (mV)
0.80 Error (mV)	25	7	-1	1	-18	-11	-6	-15	0	-6	-7	11	4	19	-1	Error (mV)
0.80 Limited IF Output (dBm)	-16.31	-16.10	-16.01	-15.97	-15.94	-15.90	-15.91	-15.94	-15.96	-15.97	-15.97	-15.97	-15.97	-15.98	-16.01	Measured Value (mV)

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.44V

INPUT VSWR
 2:1 MAX @ 25C 1.16:1

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

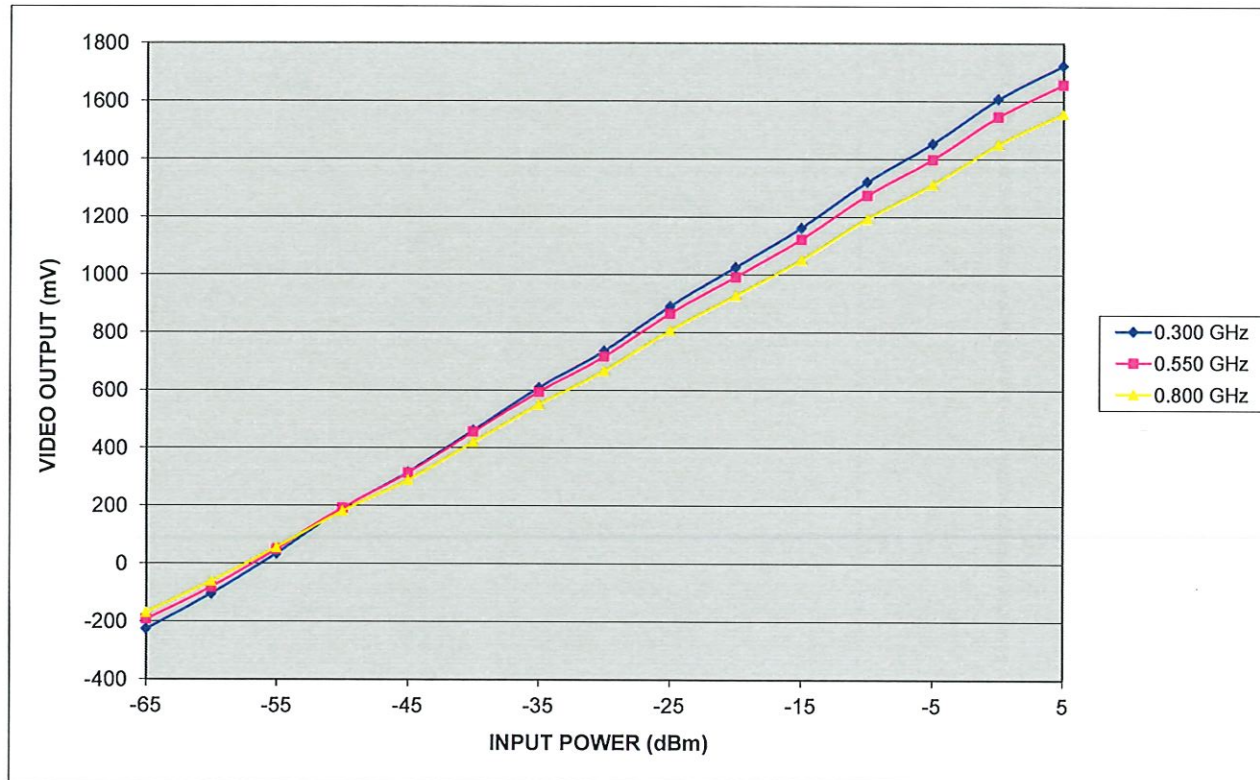
VIDEO RISE TIME
 25 nS MAX @ 25C 20 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 14 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -15.86 dBm
 LIMITED IF OUTPUT MIN -16.54 dBm
 LIMITED IF FLATNESS ± 0.34 dBm

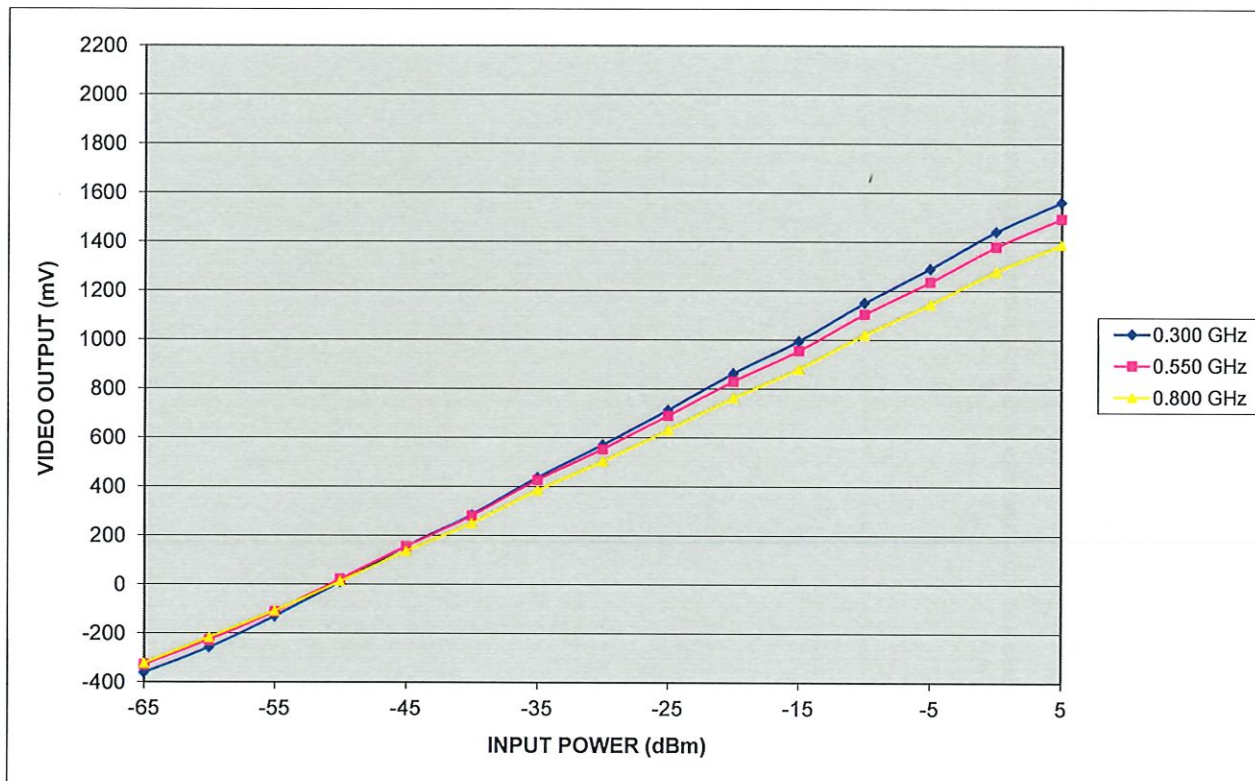
LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. : PL4327
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	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 INTERCEPT (mV)																	Measured Value (mV)
SLOPE (mV/dB)																	Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.55 INTERCEPT (mV)																	Measured Value (mV)
SLOPE (mV/dB)																	Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.80 INTERCEPT (mV)																	Measured Value (mV)
SLOPE (mV/dB)																	Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
LINEARITY(-60 TO 0dBm)																	± 0.74
LINEARITY(-65 TO +5dBm)																	± 1.43
FREQUENCY FLATNESS																	± 3.49



LIMITED IF OUTPUT MAX -15.69 dBm
 LIMITED IF OUTPUT MIN -17.04 dBm
 LIMITED IF FLATNESS ± 0.68 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
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Frequency

0.30 INTERCEPT (mV) 1403
 SLOPE (mV/dB) 28.06
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1342
 SLOPE (mV/dB) 26.62
 LIMITED IF OUTPUT (dBm)

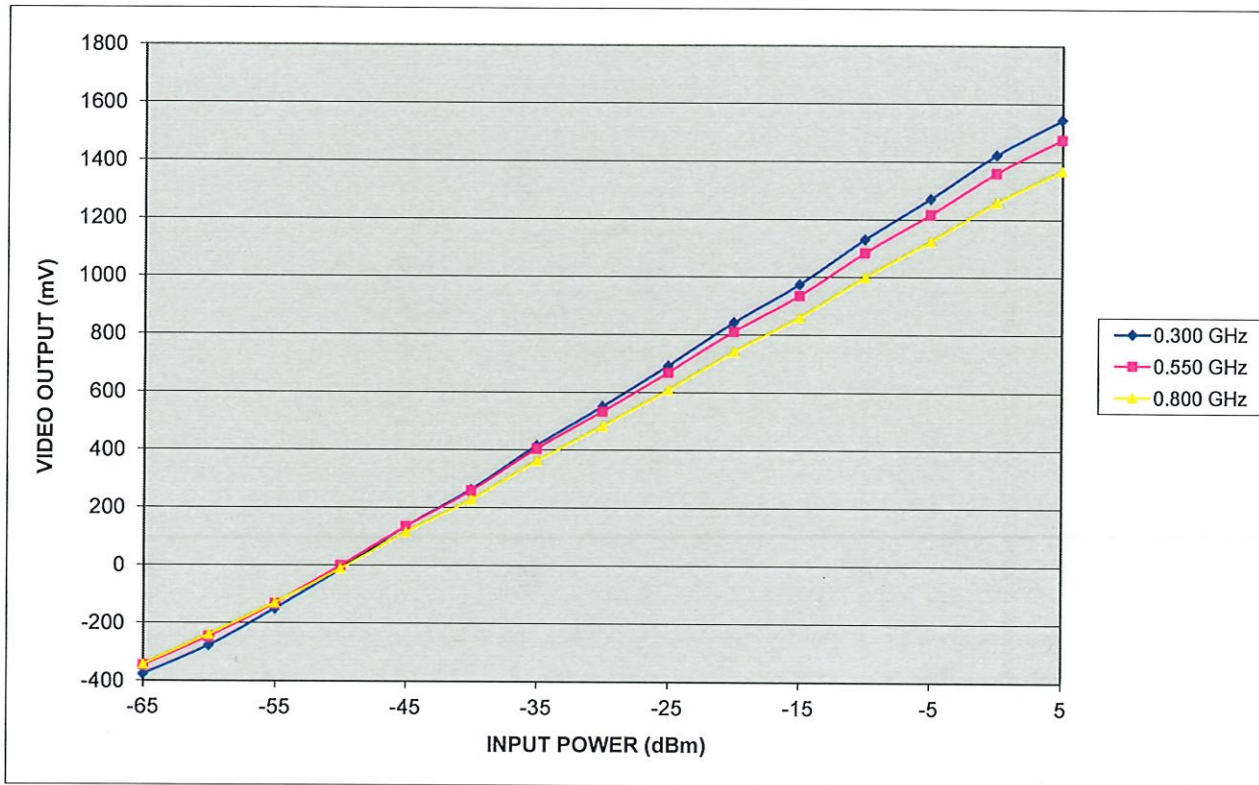
0.80 INTERCEPT (mV) 1239
 SLOPE (mV/dB) 24.85
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.73
 LINEARITY(-65 TO +5dBm) ± 1.54
 FREQUENCY FLATNESS ± 3.53

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-377	-278	-150	-13	134	283	416	551	692	843	974	1130	1271	1422	1544	
0.30 Error (mV)	43	3	-10	-13	-6	-18	-6	-10	-9	0	-8	8	8	19	0	
0.30 Limited IF Output (dBm)	-17.15	-16.40	-16.06	-15.91	-15.82	-15.76	-15.71	-15.70	-15.69	-15.69	-15.69	-15.70	-15.70	-15.70	-15.70	
0.55 Measured Value (mV)	-348	-248	-134	-1	134	259	406	533	668	810	935	1084	1216	1360	1476	
0.55 Error (mV)	41	7	-12	-12	-10	-18	-5	-10	-8	0	-8	8	7	18	1	
0.55 Limited IF Output (dBm)	-16.87	-16.34	-16.06	-15.90	-15.80	-15.74	-15.73	-15.74	-15.75	-15.75	-15.76	-15.76	-15.76	-15.77	-15.79	
0.80 Measured Value (mV)	-345	-241	-132	-12	114	227	362	481	608	740	858	998	1123	1258	1367	
0.80 Error (mV)	31	11	-4	-8	-7	-18	-8	-13	-10	-2	-8	7	8	18	4	
0.80 Limited IF Output (dBm)	-16.79	-16.23	-15.99	-15.85	-15.79	-15.79	-15.80	-15.80	-15.81	-15.81	-15.81	-15.82	-15.82	-15.83	-15.86	

TSS 95C
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.34V



LIMITED IF OUTPUT MAX -15.69 dBm
 LIMITED IF OUTPUT MIN -17.15 dBm
 LIMITED IF FLATNESS ± 0.73 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4327
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Frequency

0.30 INTERCEPT (mV) 1907
 SLOPE (mV/dB) 29.7
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1842
 SLOPE (mV/dB) 28.29
 LIMITED IF OUTPUT (dBm)

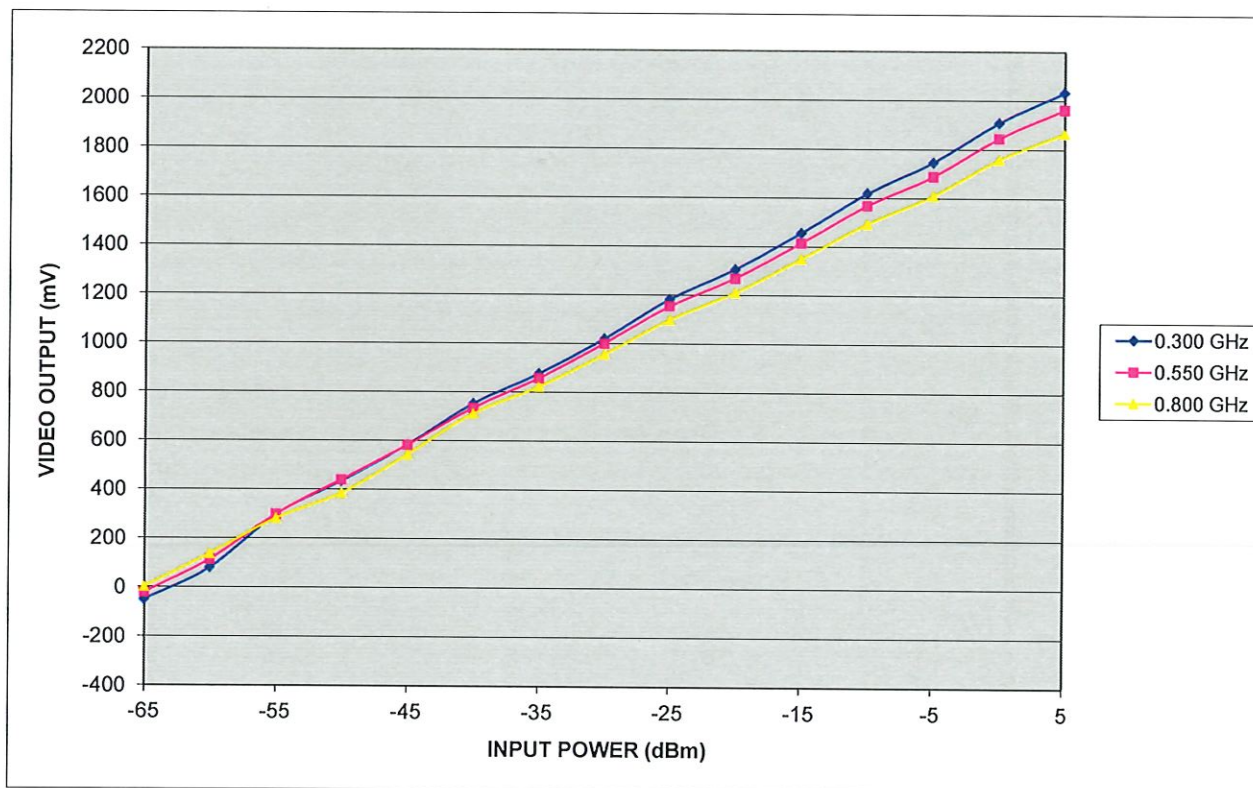
0.80 INTERCEPT (mV) 1751
 SLOPE (mV/dB) 26.8
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.51
 LINEARITY(-65 TO +5dBm) ± 1.51
 FREQUENCY FLATNESS ± 3.38

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-50	80	295	435	582	752	875	1019	1183	1306	1456	1618	1746	1908	2033	
0.30 Error (mV)	-27	-45	21	13	12	33	8	4	18	-7	-6	8	-12	1	-23	
0.30 Measured Value (mV)	-15.46	-15.49	-15.77	-15.87	-15.86	-15.86	-15.88	-15.87	-15.86	-15.88	-15.90	-15.91	-15.92	-15.92	-15.93	
0.55 Measured Value (mV)	-22	113	296	439	582	734	857	999	1153	1269	1414	1568	1688	1845	1961	
0.55 Error (mV)	-25	-32	11	12	13	24	5	6	19	-7	-3	9	-12	3	-22	
0.55 Measured Value (mV)	-15.43	-15.62	-15.63	-15.70	-15.82	-15.82	-15.77	-15.78	-15.82	-15.85	-15.85	-15.84	-15.84	-15.85	-15.86	
0.80 Measured Value (mV)	0	135	280	385	542	711	820	954	1097	1208	1348	1491	1608	1757	1864	
0.80 Error (mV)	-8	-7	4	-26	-2	32	7	8	16	-6	-1	9	-9	6	-21	
0.80 Measured Value (mV)	-15.42	-15.60	-15.66	-15.62	-15.62	-15.76	-15.74	-15.72	-15.76	-15.79	-15.78	-15.77	-15.77	-15.79	-15.86	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.42 dBm
 LIMITED IF OUTPUT MIN -15.93 dBm
 LIMITED IF FLATNESS ± 0.25 dBm