

LOG TRANSFER WITH FREQUENCY @ +25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5378
 TESTED BY: B. BAKER
 DATE: 26/MARCH/2009



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) 1626
 SLOPE (mV/dB) 28.38
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1556
 SLOPE (mV/dB) 26.87
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1457
 SLOPE (mV/dB) 25.19
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.89
 LINEARITY(-65 TO +5dBm) ± 0.96
 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)	-210	-80	59	216	336	493	633	767	919	1059	1192	1353	1480	1642	1755	Measured Value (mV)
0.30 Error (mV)	9	-3	-6	9	-13	2	1	-7	3	0	-8	11	-4	17	-12	Error (mV)
0.30 Measured Value (mV)	-16.44	-16.04	-15.93	-15.86	-15.82	-15.79	-15.77	-15.77	-15.76	-15.76	-15.77	-15.78	-15.78	-15.79	-15.80	Measured Value (mV)
0.55 Measured Value (mV)	-174	-57	73	216	332	481	614	741	887	1018	1144	1299	1419	1571	1684	Measured Value (mV)
0.55 Error (mV)	17	0	-5	3	-15	0	-2	-9	3	-1	-9	12	-3	15	-6	Error (mV)
0.55 Measured Value (mV)	-16.33	-16.07	-15.96	-15.88	-15.82	-15.81	-15.83	-15.84	-15.85	-15.85	-15.86	-15.86	-15.86	-15.87	-15.89	Measured Value (mV)
0.80 Measured Value (mV)	-156	-45	72	197	301	440	567	688	826	950	1071	1215	1330	1475	1584	Measured Value (mV)
0.80 Error (mV)	24	9	0	0	-22	-10	-8	-13	-1	-3	-8	11	0	19	1	Error (mV)
0.80 Measured Value (mV)	-16.26	-16.03	-15.95	-15.91	-15.88	-15.84	-15.86	-15.88	-15.89	-15.91	-15.91	-15.90	-15.91	-15.92	-15.96	Measured Value (mV)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR 2:1 MAX @ 25C 1.23:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.52:1

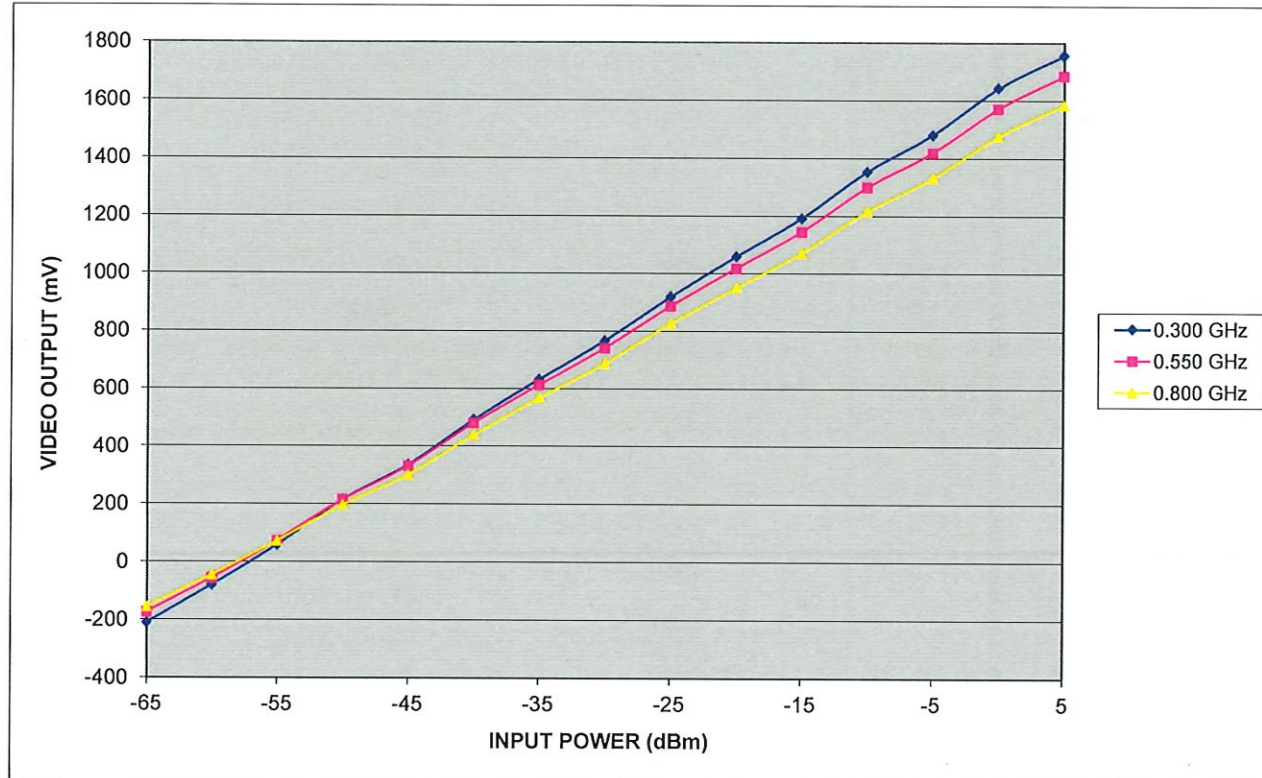
VIDEO RISE TIME 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 122mA



LIMITED IF OUTPUT MAX -15.76 dBm
 LIMITED IF OUTPUT MIN -16.44 dBm
 LIMITED IF FLATNESS ± 0.34 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5378
 TESTED BY: B. BAKER
 DATE: 26/MARCH/2009



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)	1453	-349	-235	-112	36	173	311	461	599	740	893	1022	1181	1315	1474	1590	Measured Value (mV)
SLOPE (mV/dB)	28.23	33	5	-12	-6	-10	-13	-4	-8	-8	4	-8	10	3	20	-5	Error (mV)
LIMITED IF OUTPUT (dBm)		-16.91	-16.22	-15.96	-15.84	-15.76	-15.72	-15.69	-15.68	-15.67	-15.67	-15.68	-15.69	-15.69	-15.69	-15.70	Measured Value (mV)
0.55 INTERCEPT (mV)	1387	-316	-208	-96	43	171	304	447	576	711	856	978	1129	1267	1406	1521	Measured Value (mV)
SLOPE (mV/dB)	26.74	35	9	-12	-8	-13	-14	-5	-10	-8	3	-9	9	3	18	0	Error (mV)
LIMITED IF OUTPUT (dBm)		-16.67	-16.20	-15.98	-15.86	-15.78	-15.74	-15.73	-15.74	-15.75	-15.76	-15.76	-15.76	-15.77	-15.78	-15.80	Measured Value (mV)
0.80 INTERCEPT (mV)	1285	-314	-204	-98	28	148	288	402	522	650	785	901	1042	1164	1304	1414	Measured Value (mV)
SLOPE (mV/dB)	25.03	28	13	-6	-6	-10	-16	-7	-12	-10	0	-8	7	4	19	3	Error (mV)
LIMITED IF OUTPUT (dBm)		-16.63	-16.16	-15.96	-15.87	-15.82	-15.82	-15.82	-15.82	-15.83	-15.83	-15.84	-15.84	-15.85	-15.86	-15.89	Measured Value (mV)
LINEARITY(-60 TO 0dBm)	± 0.76																
LINEARITY(-65 TO +5dBm)	± 1.32																
FREQUENCY FLATNESS	± 3.52																

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR
 2:1 MAX @ 25C 1.23:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.52:1

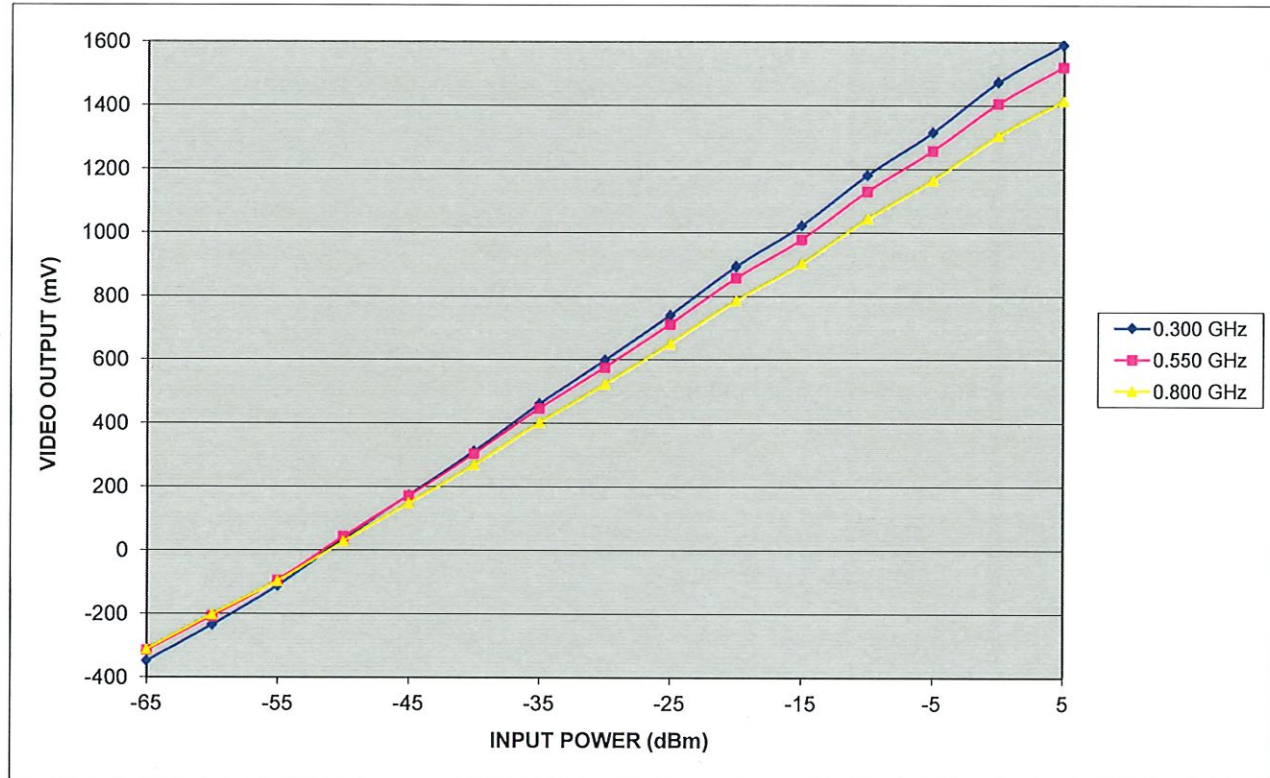
VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 46 nS

PROPERGATION DELAY
 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 122mA



LIMITED IF OUTPUT MAX -15.67 dBm
 LIMITED IF OUTPUT MIN -16.91 dBm
 LIMITED IF FLATNESS ± 0.62 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5378
 TESTED BY: B. BAKER
 DATE: 26/MARCH/2009



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) 1428
 SLOPE (mV/dB) 28.23
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1361
 SLOPE (mV/dB) 26.74
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1259
 SLOPE (mV/dB) 25.04
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.43
 FREQUENCY FLATNESS ± 3.56

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-370	-261	-137	7	147	284	433	573	712	868	996	1155	1290	1448	1566	Measured Value (mV)
0.30 Error (mV)	37	6	-12	-9	-10	-14	-6	-7	-10	5	-8	9	3	21	-3	Error (mV)
0.30 Limited If Output (dBm)	-17.00	-16.24	-15.95	-15.81	-15.73	-15.68	-15.65	-15.64	-15.63	-15.63	-15.64	-15.65	-15.65	-15.66	-15.67	Measured Value (mV)
0.55 Measured Value (mV)	-339	-233	-122	14	145	276	419	550	683	830	951	1102	1231	1380	1496	Measured Value (mV)
0.55 Error (mV)	38	10	-13	-10	-13	-15	-6	-9	-9	4	-9	9	4	19	1	Error (mV)
0.55 Limited If Output (dBm)	-16.72	-16.21	-15.96	-15.82	-15.74	-15.70	-15.68	-15.69	-15.70	-15.71	-15.71	-15.71	-15.72	-15.72	-15.75	Measured Value (mV)
0.80 Measured Value (mV)	-340	-231	-124	-1	122	241	374	497	622	758	874	1015	1138	1277	1388	Measured Value (mV)
0.80 Error (mV)	29	13	-5	-8	-9	-16	-8	-11	-11	1	-9	7	5	19	4	Error (mV)
0.80 Limited If Output (dBm)	-16.70	-16.16	-15.94	-15.82	-15.77	-15.76	-15.77	-15.78	-15.78	-15.78	-15.78	-15.78	-15.79	-15.81	-15.84	Measured Value (mV)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR
 2:1 MAX @ 25C 1.23:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.52:1

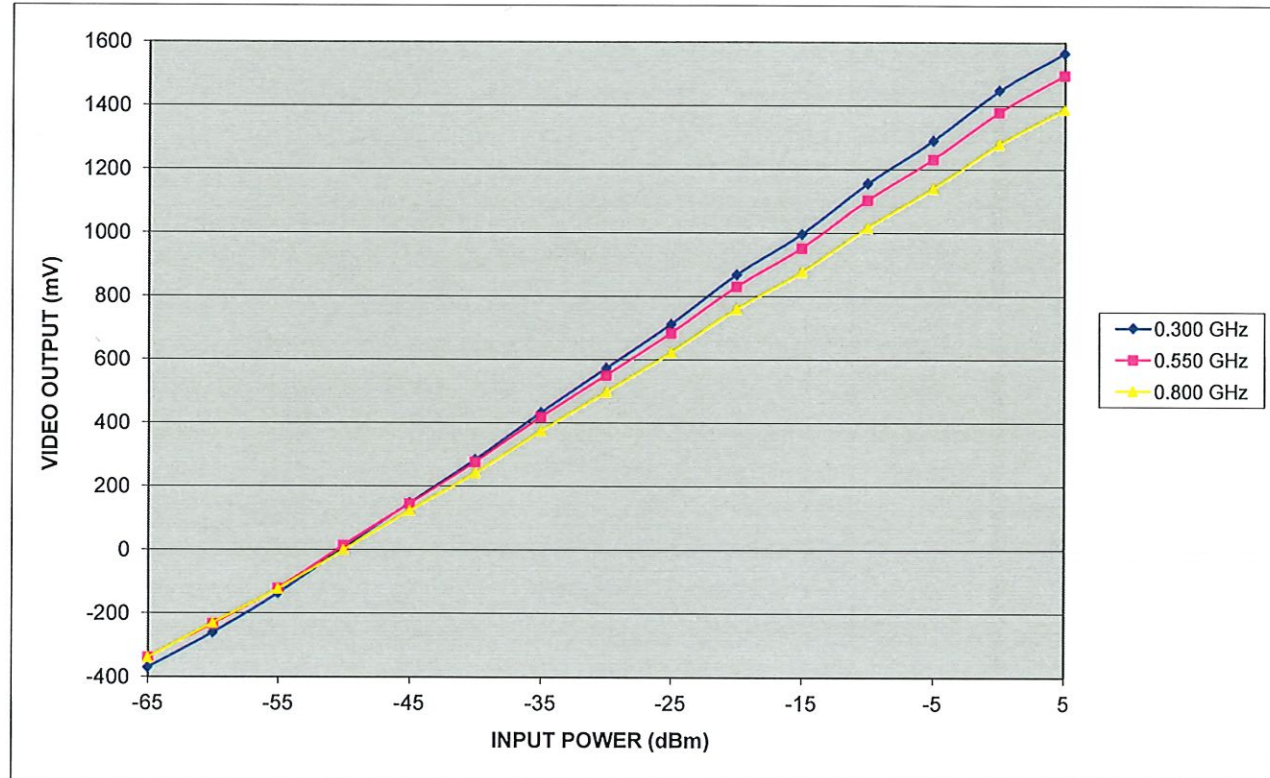
VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 46 nS

PROPERGATION DELAY
 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 122mA



LIMITED IF OUTPUT MAX -15.63 dBm
 LIMITED IF OUTPUT MIN -17.00 dBm
 LIMITED IF FLATNESS ± 0.68 dBm

LOG TRANSFER WITH FREQUENCY @ -55 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5378
 TESTED BY: B. BAKER
 DATE: 26/MARCH/2009



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) 1959
 SLOPE (mV/dB) 30.02
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1888
 SLOPE (mV/dB) 28.51
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1795
 SLOPE (mV/dB) 26.8
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.49
 LINEARITY(-65 TO +5dBm) ± 1.49
 FREQUENCY FLATNESS ± 3.44

-65 -60 -55 -50 -45 -40 -35 -30 -25 -20 -15 -10 -5 0 5 RF Input Power (dBm)

-26	113	322	475	624	797	916	1072	1228	1356	1505	1667	1791	1960	2083	Measured Value (mV)
-34	-45	14	17	15	38	6	13	19	-3	-4	8	-19	1	-27	Error (mV)
-16.74	-16.66	-16.76	-16.82	-16.82	-16.82	-16.80	-16.81	-16.82	-16.83	-16.84	-16.84	-16.84	-16.85	-16.85	Measured Value (mV)

4	152	328	470	616	777	892	1046	1194	1313	1457	1612	1727	1888	2009	Measured Value (mV)
-30	-25	8	8	11	30	2	14	19	-4	-3	9	-18	1	-21	Error (mV)
-16.66	-16.68	-16.62	-16.66	-16.76	-16.73	-16.69	-16.69	-16.72	-16.75	-16.76	-16.75	-16.75	-16.76	-16.77	Measured Value (mV)

39	184	314	427	608	756	859	998	1136	1252	1391	1535	1648	1801	1911	Measured Value (mV)
-13	-3	-6	-27	19	34	2	8	12	-7	-2	8	-13	7	-18	Error (mV)
-16.64	-16.60	-16.62	-16.72	-16.74	-16.76	-16.73	-16.71	-16.74	-16.75	-16.74	-16.74	-16.74	-16.74	-16.84	Measured Value (mV)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR 2:1 MAX @ 25C 1.23:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.52:1

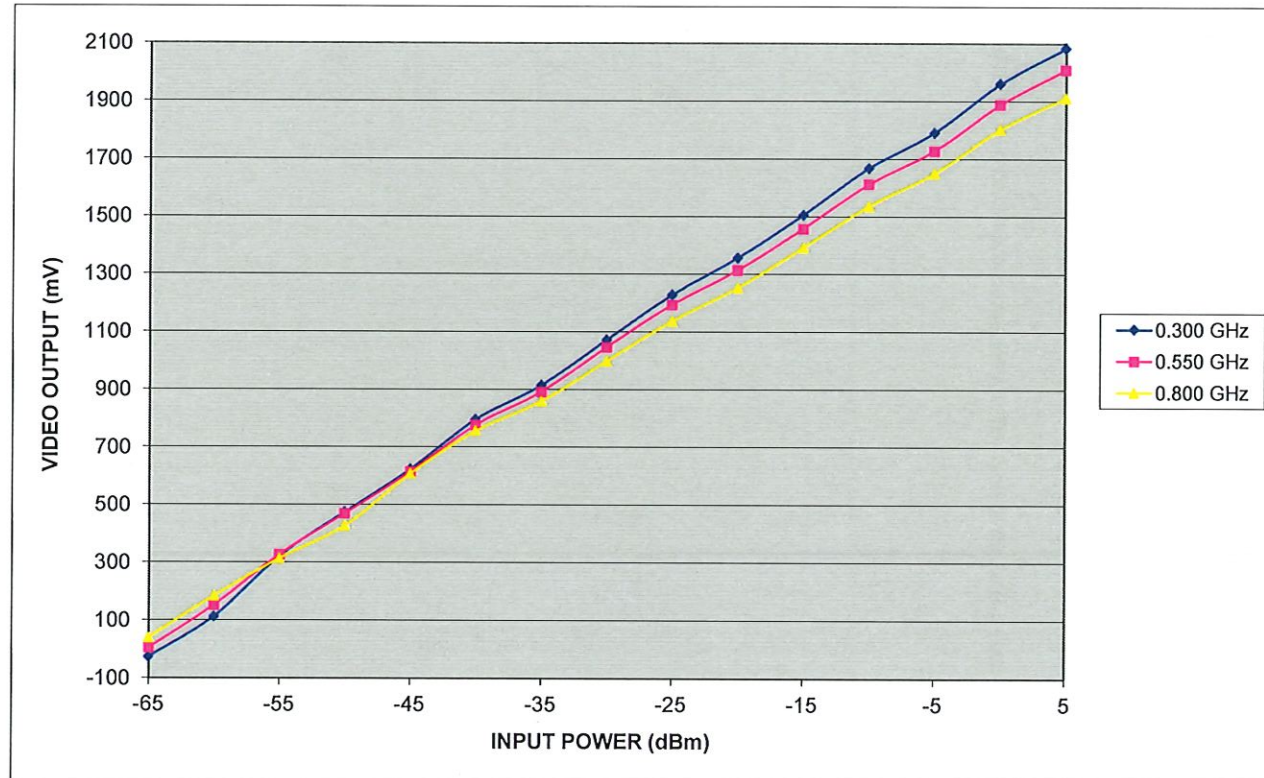
VIDEO RISE TIME 25 nS MAX @ 25C 24 nS

VIDEO FALL TIME 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 122mA



LIMITED IF OUTPUT MAX -15.58 dBm
 LIMITED IF OUTPUT MIN -15.85 dBm
 LIMITED IF FLATNESS ± 0.13 dBm