

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4365
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1762
 SLOPE (mV/dB) 29.02
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1695
 SLOPE (mV/dB) 27.6
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1597
 SLOPE (mV/dB) 26.01
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.90
 LINEARITY(-65 TO +5dBm) ± 0.90
 FREQUENCY FLATNESS ± 3.40

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-128	15	169	320	444	613	744	885	1042	1178	1316	1482	1610	1776	1896	Measured Value (mV)
0.30 Error (mV)	-3	-5	4	9	-12	12	-1	-6	6	-3	-10	11	-7	15	-11	Error (mV)
0.30 Measured Value (mV)	-16.03	-15.82	-15.77	-15.72	-15.69	-15.66	-15.64	-15.64	-15.63	-15.63	-15.64	-15.65	-15.65	-15.65	-15.65	Measured Value (mV)
0.55 Measured Value (mV)	-95	34	180	318	440	601	726	860	1013	1139	1273	1430	1551	1708	1825	Measured Value (mV)
0.55 Error (mV)	4	-4	3	3	-13	10	-3	-7	8	-4	-8	11	-6	13	-8	Error (mV)
0.55 Measured Value (mV)	-15.96	-15.82	-15.75	-15.69	-15.63	-15.65	-15.67	-15.67	-15.67	-15.68	-15.68	-15.68	-15.68	-15.68	-15.70	Measured Value (mV)
0.80 Measured Value (mV)	-79	43	174	290	403	558	681	807	951	1071	1200	1347	1463	1614	1726	Measured Value (mV)
0.80 Error (mV)	15	7	7	-6	-23	1	-6	-10	5	-6	-7	10	-4	17	-1	Error (mV)
0.80 Measured Value (mV)	-15.90	-15.76	-15.72	-15.70	-15.63	-15.69	-15.64	-15.66	-15.67	-15.68	-15.67	-15.67	-15.67	-15.69	-15.74	Measured Value (mV)

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.41

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

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

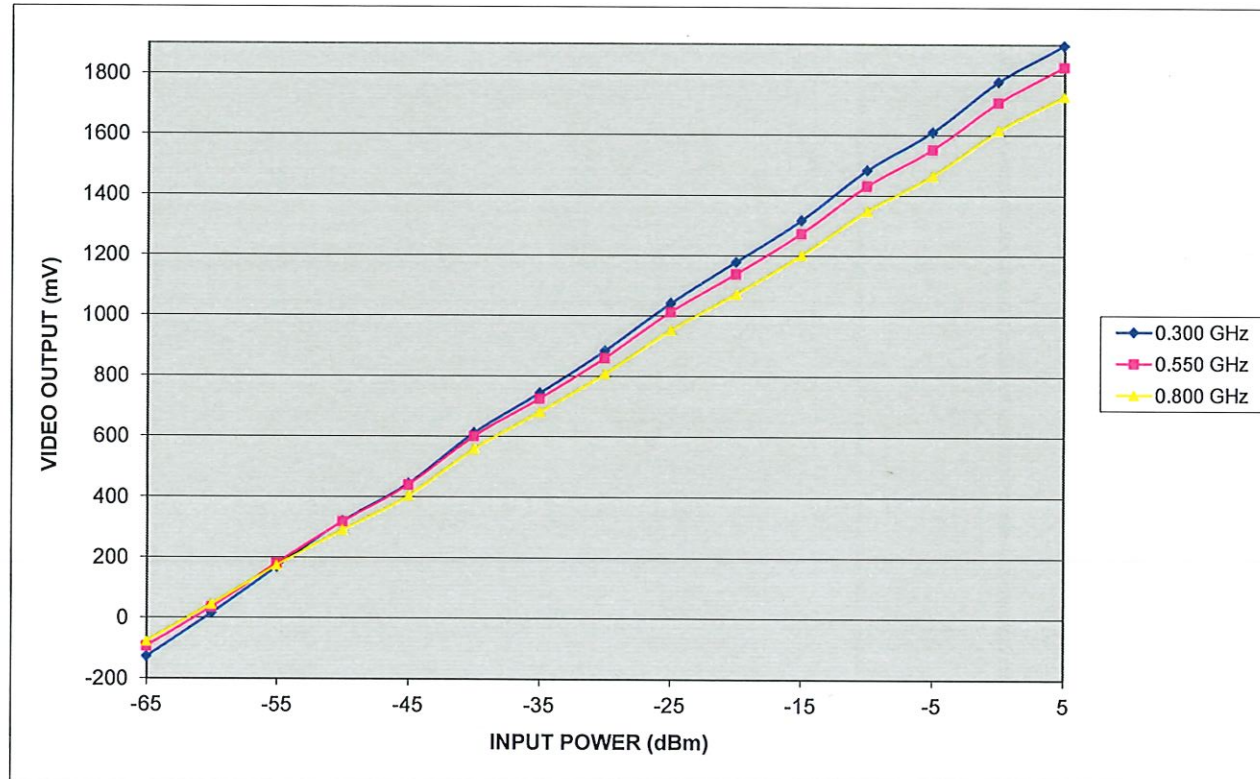
VIDEO RISE TIME
 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 14 mA

-5.2 V @ 200 mA MAX 124 mA



LIMITED IF OUTPUT MAX -15.59 dBm
 LIMITED IF OUTPUT MIN -16.03 dBm
 LIMITED IF FLATNESS ± 0.22 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4365
 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1932
 SLOPE (mV/dB) 34.96
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1870
 SLOPE (mV/dB) 33.4
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1728
 SLOPE (mV/dB) 30.97
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.61
 LINEARITY(-65 TO +5dBm) ± 1.20
 FREQUENCY FLATNESS ± 4.36

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-301	-158	-2	180	350	520	702	875	1043	1237	1394	1585	1759	1949	2122	Measured Value (mV)
0.30 Error (mV)	39	7	-12	-5	-9	-14	-7	-8	-15	3	-15	2	2	17	15	Error (mV)
0.30 Measured Value (mV)	-16.49	-15.96	-15.75	-15.64	-15.67	-15.52	-15.60	-15.48	-15.48	-15.48	-15.49	-15.49	-15.49	-15.49	-15.49	Measured Value (mV)
0.55 Measured Value (mV)	-261	-126	20	193	355	519	695	857	1022	1204	1355	1538	1705	1884	2053	Measured Value (mV)
0.55 Error (mV)	40	9	-12	-6	-11	-14	-5	-11	-13	2	-14	3	3	15	16	Error (mV)
0.55 Measured Value (mV)	-16.30	-15.92	-15.73	-15.61	-15.54	-15.51	-15.60	-15.52	-15.52	-15.53	-15.53	-15.53	-15.53	-15.54	-15.56	Measured Value (mV)
0.80 Measured Value (mV)	-252	-113	22	177	324	471	635	784	939	1107	1250	1420	1577	1746	1904	Measured Value (mV)
0.80 Error (mV)	32	16	-3	-3	-10	-19	-9	-15	-15	-2	-14	1	4	17	21	Error (mV)
0.80 Measured Value (mV)	-16.19	-15.80	-15.65	-15.68	-15.55	-15.54	-15.64	-15.55	-15.55	-15.55	-15.55	-15.55	-15.56	-15.58	-15.61	Measured Value (mV)

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.73

INPUT VSWR 2:1 MAX @ 25C 1.18:1

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

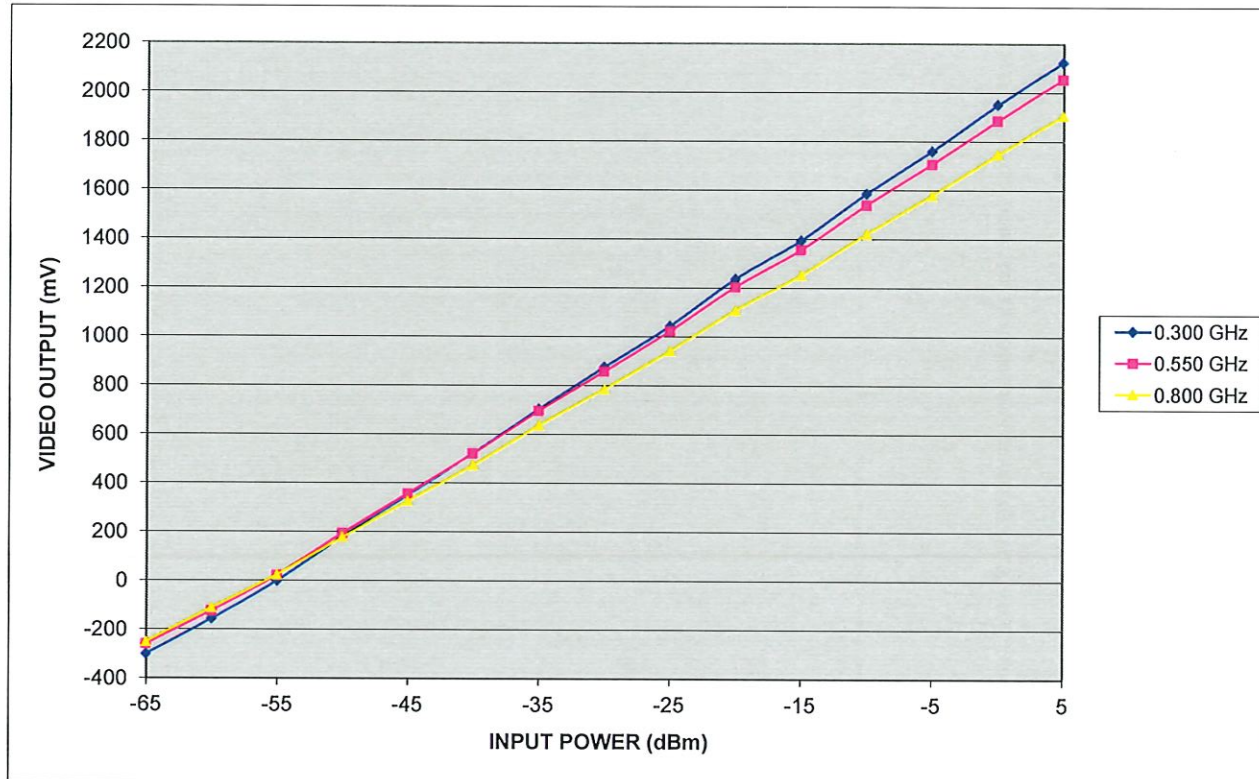
VIDEO RISE TIME 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 18 mA

-5.2 V @ 200 mA MAX 134 mA



LIMITED IF OUTPUT MAX -15.48 dBm
 LIMITED IF OUTPUT MIN -16.49 dBm
 LIMITED IF FLATNESS ± 0.50 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4365
 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1903
 SLOPE (mV/dB) 34.92
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1838
 SLOPE (mV/dB) 33.37
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1696
 SLOPE (mV/dB) 30.99
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.61
 LINEARITY(-65 TO +5dBm) ± 1.33
 FREQUENCY FLATNESS ± 4.44

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-323	-184	-30	148	321	489	671	846	1013	1207	1365	1554	1731	1920	2095	Measured Value (mV)
0.30 Error (mV)	45	9	-12	-9	-10	-16	-9	-9	-17	3	-14	1	3	18	18	Error (mV)
0.30 Limited IF Output (dBm)	-16.64	-16.07	-16.85	-16.73	-16.65	-16.60	-16.67	-16.56	-16.55	-16.55	-16.55	-16.56	-16.56	-16.56	-16.56	Measured Value (mV)
0.55 Measured Value (mV)	-287	-154	-10	159	325	487	663	826	990	1172	1324	1506	1675	1853	2024	Measured Value (mV)
0.55 Error (mV)	44	10	-12	-10	-12	-16	-7	-11	-14	2	-13	1	4	15	19	Error (mV)
0.55 Limited IF Output (dBm)	-16.43	-16.02	-16.81	-16.69	-16.61	-16.67	-16.56	-16.67	-16.58	-16.59	-16.59	-16.59	-16.59	-16.60	-16.62	Measured Value (mV)
0.80 Measured Value (mV)	-284	-148	-11	141	294	438	602	753	906	1074	1219	1386	1546	1713	1873	Measured Value (mV)
0.80 Error (mV)	33	15	-3	-6	-8	-19	-10	-14	-16	-2	-13	0	4	17	22	Error (mV)
0.80 Limited IF Output (dBm)	-16.35	-15.91	-15.73	-16.64	-16.61	-16.60	-16.60	-16.60	-16.61	-16.61	-16.61	-16.61	-16.62	-16.64	-16.67	Measured Value (mV)

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.71

INPUT VSWR
 2:1 MAX @ 25C 1.18:1

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

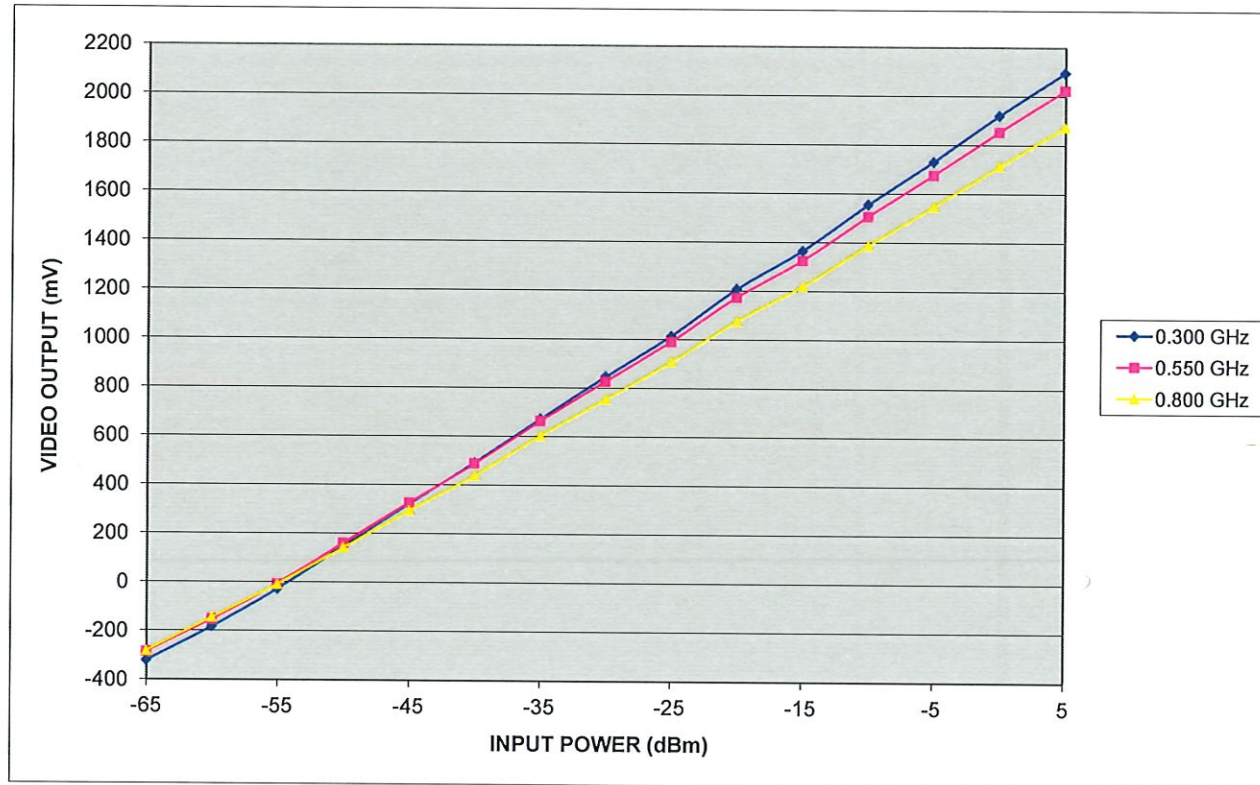
VIDEO RISE TIME
 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 14 mA

-5.2 V @ 200 mA MAX 134 mA



LIMITED IF OUTPUT MAX -15.55 dBm
 LIMITED IF OUTPUT MIN -16.64 dBm
 LIMITED IF FLATNESS ± 0.54 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
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 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 2098
 SLOPE (mV/dB) 30.58
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 2032
 SLOPE (mV/dB) 29.22
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1941
 SLOPE (mV/dB) 27.81
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.43
 LINEARITY(-65 TO +5dBm) ± 1.43
 FREQUENCY FLATNESS ± 3.43

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	91	227	422	570	716	911	1038	1203	1357	1483	1636	1802	1924	2091	2231	
0.30 Error (mV)	-18	-35	7	2	-5	36	10	23	24	-3	-3	10	-20	-6	-20	
0.30 Measured Value (mV)	-15.32	-15.35	-15.44	-15.52	-15.60	-15.62	-15.64	-15.66	-15.66	-15.67	-15.67	-15.67	-15.68	-15.68	-15.69	
0.55 Measured Value (mV)	108	236	432	573	734	896	1017	1179	1324	1441	1593	1748	1864	2023	2158	
0.55 Error (mV)	-25	-42	7	2	17	33	8	24	23	-6	-1	9	-21	-9	-19	
0.55 Measured Value (mV)	-15.29	-15.29	-15.30	-15.36	-15.40	-15.43	-15.47	-15.46	-15.49	-15.52	-15.53	-15.52	-15.52	-15.52	-15.54	
0.80 Measured Value (mV)	109	242	385	566	729	862	971	1124	1262	1378	1525	1670	1785	1936	2059	
0.80 Error (mV)	-25	-30	-26	16	39	33	4	17	16	-7	0	6	-17	-5	-21	
0.80 Measured Value (mV)	-15.28	-15.27	-15.30	-15.42	-15.46	-15.53	-15.51	-15.46	-15.47	-15.47	-15.46	-15.45	-15.46	-15.49	-15.53	

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.67

INPUT VSWR
 2:1 MAX @ 25C 1.18:1

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

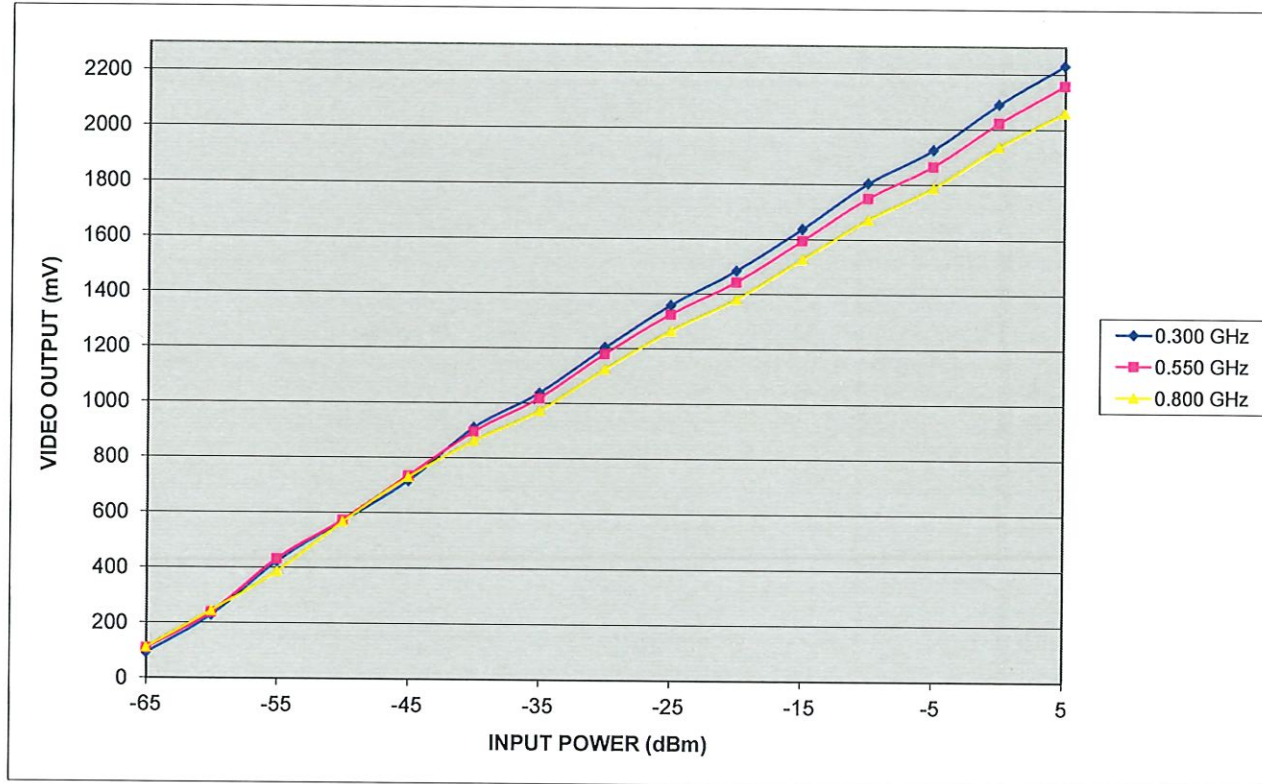
VIDEO RISE TIME
 25 nS MAX @ 25C 16 nS

VIDEO FALL TIME
 80 nS MAX @ 25C 38 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 12 nS

+5 V @ 70 mA MAX 15 mA

-5.2 V @ 200 mA MAX 123 mA



LIMITED IF OUTPUT MAX -15.27 dBm
 LIMITED IF OUTPUT MIN -15.69 dBm
 LIMITED IF FLATNESS ± 0.21 dBm