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LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5435
 TESTED BY: B. BAKER
 DATE: 24/MARCH/2009



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
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 EMAIL: SALES@PLANARMONOLITHICS.COM
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1626
 SLOPE (mV/dB) 28.47
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1557
 SLOPE (mV/dB) 27.05
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1460
 SLOPE (mV/dB) 25.41
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.97
 LINEARITY(-65 TO +5dBm) ± 0.97
 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)	-219	-85	65	213	331	493	629	765	915	1056	1188	1353	1478	1643	1757	Measured Value (mV)
0.30 Error (mV)	6	-2	-5	11	-14	6	0	-7	1	0	-11	12	-5	17	-11	Error (mV)
0.30 Limited If Output (dBm)	-16.12	-15.79	-15.71	-15.64	-15.61	-15.56	-15.56	-15.54	-15.53	-15.53	-15.64	-15.65	-15.65	-15.66	-15.67	Limited If Output (dBm)
0.55 Measured Value (mV)	-188	-68	64	210	325	479	609	738	883	1016	1140	1299	1417	1571	1687	Measured Value (mV)
0.55 Error (mV)	13	-2	-5	6	-15	4	-1	-8	2	0	-11	12	-5	14	-5	Error (mV)
0.55 Limited If Output (dBm)	-16.05	-15.83	-15.73	-15.64	-15.58	-15.57	-15.60	-15.61	-15.61	-15.62	-15.62	-15.62	-15.62	-15.63	-15.65	Limited If Output (dBm)
0.80 Measured Value (mV)	-168	-54	64	190	293	438	565	686	824	950	1069	1218	1332	1479	1590	Measured Value (mV)
0.80 Error (mV)	23	10	1	-1	-25	-6	-7	-12	-1	-3	-10	11	-2	18	2	Error (mV)
0.80 Limited If Output (dBm)	-15.96	-15.76	-15.69	-15.66	-15.61	-15.64	-15.68	-15.61	-15.62	-15.64	-15.64	-15.64	-15.64	-15.64	-15.68	Limited If Output (dBm)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

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

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.58:1

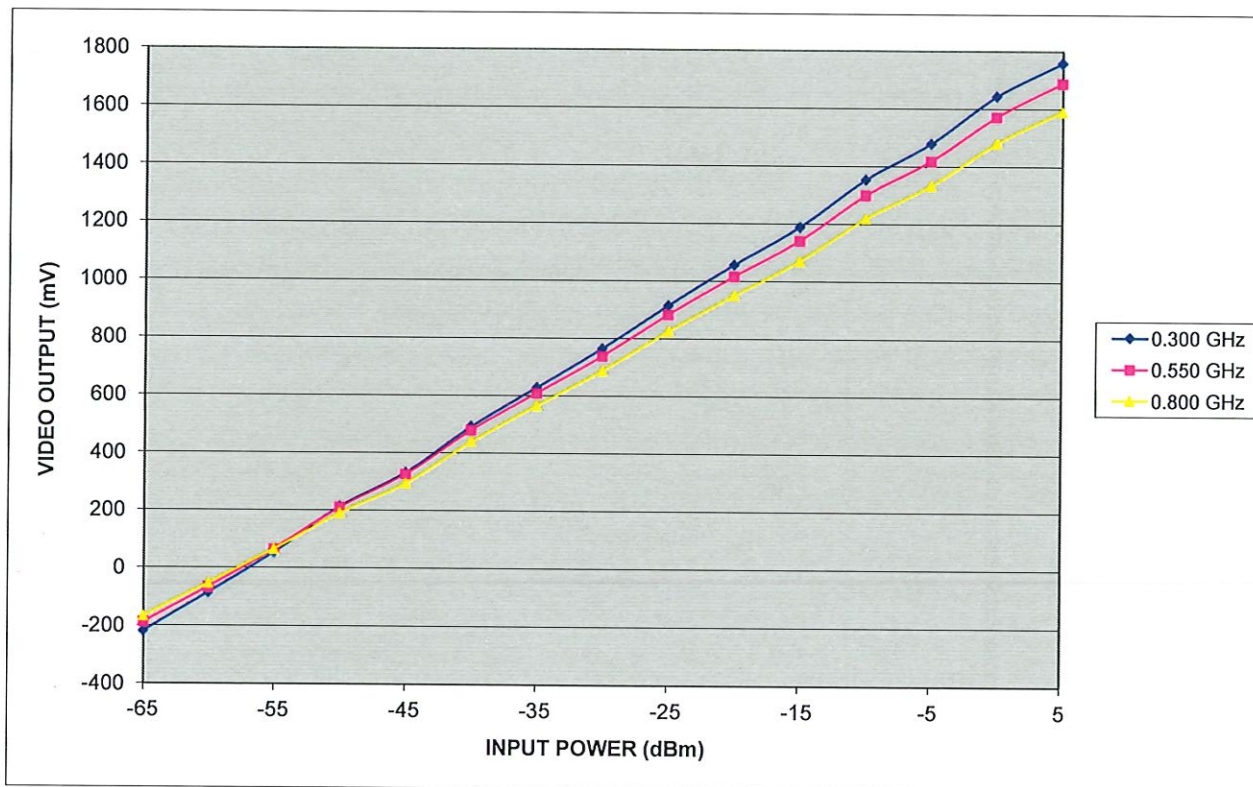
VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

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 123mA



LIMITED IF OUTPUT MAX -15.63 dBm
 LIMITED IF OUTPUT MIN -16.12 dBm
 LIMITED IF FLATNESS ± 0.30 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C
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Frequency

0.30 INTERCEPT (mV) 1452
 SLOPE (mV/dB) 28.37
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1386
 SLOPE (mV/dB) 26.92
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1284
 SLOPE (mV/dB) 25.15
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 1.22
 FREQUENCY FLATNESS ± 3.50

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR
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IF OUTPUT VSWR
 2:1 MAX @ 25C 1.58:1

VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

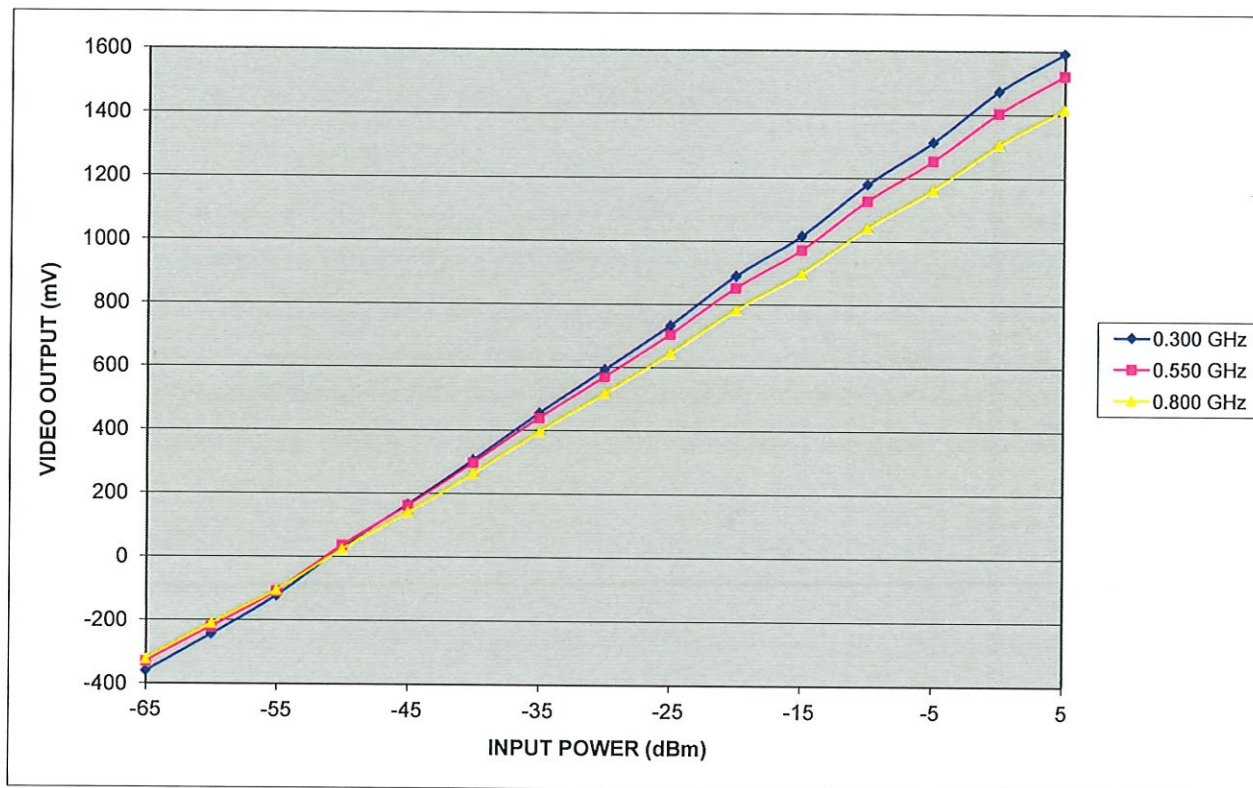
VIDEO FALL TIME
 80 nS MAX @ 25C 46 nS

PROPERGATION DELAY
 40 nS MAX @ 25C 34 nS

+5 V @ 70 mA MAX 16 mA

-5.2 V @ 200 mA MAX 123mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-361	-244	-122	31	165	307	455	594	733	890	1016	1179	1312	1473	1591	Measured Value (mV)
0.30 Error (mV)	31	6	-14	-3	-11	-11	-4	-8	-10	5	-11	10	1	20	-3	Error (mV)
0.30 Measured Value (mV)	-16.61	-15.96	-15.72	-15.69	-15.62	-15.47	-15.44	-15.43	-15.42	-15.42	-15.43	-15.43	-15.44	-15.44	-15.44	Measured Value (mV)
0.55 Measured Value (mV)	-331	-221	-109	36	162	298	439	569	703	851	971	1126	1252	1403	1522	Measured Value (mV)
0.55 Error (mV)	33	8	-14	-4	-12	-11	-4	-9	-10	4	-11	10	1	18	2	Error (mV)
0.55 Measured Value (mV)	-16.41	-15.94	-15.73	-15.60	-15.52	-15.48	-15.47	-15.49	-15.49	-15.50	-15.51	-15.51	-15.51	-15.52	-15.54	Measured Value (mV)
0.80 Measured Value (mV)	-324	-210	-106	24	141	263	396	517	643	781	896	1041	1161	1304	1416	Measured Value (mV)
0.80 Error (mV)	27	15	-6	-2	-12	-15	-8	-12	-12	0	-11	8	3	20	6	Error (mV)
0.80 Measured Value (mV)	-16.32	-15.86	-15.68	-15.69	-15.64	-15.63	-15.63	-15.64	-15.65	-15.66	-15.66	-15.66	-15.67	-15.68	-15.61	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.42 dBm
 LIMITED IF OUTPUT MIN -16.61 dBm
 LIMITED IF FLATNESS ± 0.60 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C
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Frequency

0.30 INTERCEPT (mV) 1431
 SLOPE (mV/dB) 28.41
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1364
 SLOPE (mV/dB) 26.94
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1262
 SLOPE (mV/dB) 25.17
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 1.32
 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)	-381	-267	-145	5	142	283	431	572	710	869	995	1157	1291	1452	1572	Measured Value (mV)
0.30 Error (mV)	34	6	-14	-6	-11	-12	-6	-7	-11	5	-11	10	2	21	-2	Error (mV)
0.30 Limited IF Output (dBm)	-16.83	-16.11	-16.84	-15.70	-16.63	-16.68	-16.64	-15.63	-15.62	-16.62	-16.62	-16.63	-16.63	-16.65	-16.66	Measured Value (mV)
0.55 Measured Value (mV)	-351	-243	-131	11	139	274	416	548	680	830	949	1104	1232	1383	1502	Measured Value (mV)
0.55 Error (mV)	35	9	-14	-6	-13	-13	-6	-8	-11	4	-11	9	2	18	3	Error (mV)
0.55 Limited IF Output (dBm)	-16.60	-16.08	-15.85	-15.71	-16.63	-16.68	-16.68	-15.68	-15.69	-16.60	-16.60	-16.60	-16.61	-16.62	-16.63	Measured Value (mV)
0.80 Measured Value (mV)	-346	-233	-128	-1	119	239	372	495	619	759	873	1017	1140	1281	1395	Measured Value (mV)
0.80 Error (mV)	28	15	-6	-4	-11	-16	-9	-12	-13	1	-11	7	4	20	7	Error (mV)
0.80 Limited IF Output (dBm)	-16.61	-16.00	-16.81	-16.70	-16.65	-16.64	-16.64	-16.65	-16.66	-16.66	-16.66	-16.67	-16.67	-16.69	-16.71	Measured Value (mV)

TSS 25C
 -65dBm MAX -67dBm

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 2.7V MAX 2.63 V

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IF OUTPUT VSWR
 2:1 MAX @ 25C 1.58:1

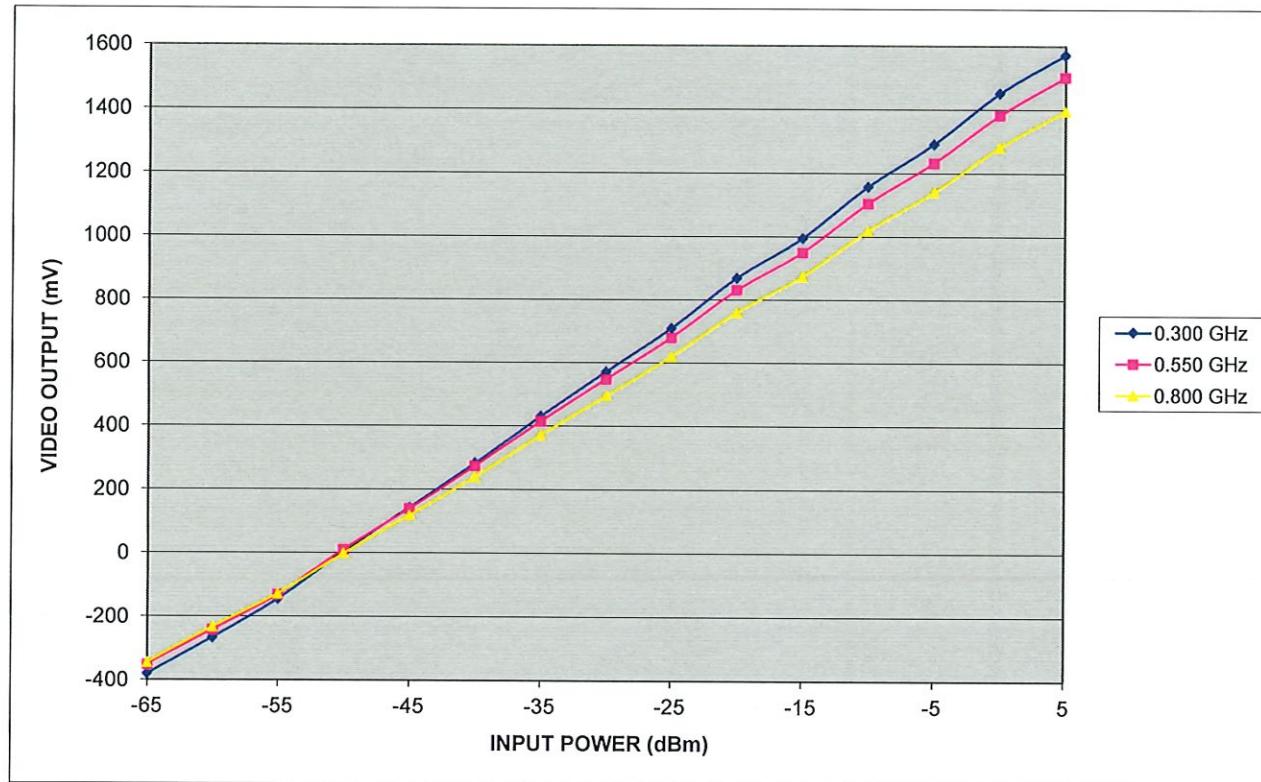
VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

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 123mA



LIMITED IF OUTPUT MAX -15.62 dBm
 LIMITED IF OUTPUT MIN -16.83 dBm
 LIMITED IF FLATNESS ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ -55 °C
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Frequency

0.30 INTERCEPT (mV) 1899
 SLOPE (mV/dB) 29.62
 LIMITED IF OUTPUT (dBm)
 0.55 INTERCEPT (mV) 1831
 SLOPE (mV/dB) 28.16
 LIMITED IF OUTPUT (dBm)
 0.80 INTERCEPT (mV) 1743
 SLOPE (mV/dB) 26.53
 LIMITED IF OUTPUT (dBm)
 LINEARITY(-60 TO 0dBm) ± 1.25
 LINEARITY(-65 TO +5dBm) ± 1.25
 FREQUENCY FLATNESS ± 3.28

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-56	84	282	435	573	749	865	1021	1174	1303	1447	1612	1733	1903	2024	Measured Value (mV)
0.30 Error (mV)	-29	-37	13	18	8	35	3	11	16	-3	-7	10	-17	4	-23	Error (mV)
0.30 Limited IF Output (dBm)	-15.28	-15.27	-15.47	-15.55	-15.65	-15.68	-15.68	-15.65	-15.64	-15.65	-15.66	-15.67	-15.68	-15.68	-15.67	Measured Value (mV)
0.55 Measured Value (mV)	-26	120	294	432	569	736	844	997	1142	1263	1404	1560	1673	1837	1954	Measured Value (mV)
0.55 Error (mV)	-27	-22	11	9	5	31	-2	10	15	-5	-5	11	-17	5	-18	Error (mV)
0.55 Limited IF Output (dBm)	-15.21	-15.22	-15.30	-15.35	-15.44	-15.39	-15.35	-15.36	-15.39	-15.43	-15.44	-15.44	-15.44	-15.45	-15.45	Measured Value (mV)
0.80 Measured Value (mV)	2	142	271	427	562	709	811	951	1088	1205	1341	1487	1598	1752	1860	Measured Value (mV)
0.80 Error (mV)	-17	-9	-13	11	13	27	-3	4	8	-7	-4	9	-12	9	-16	Error (mV)
0.80 Limited IF Output (dBm)	-15.21	-15.23	-15.31	-15.44	-15.45	-15.46	-15.42	-15.39	-15.41	-15.43	-15.42	-15.43	-15.43	-15.46	-15.53	Measured Value (mV)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

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

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.58:1

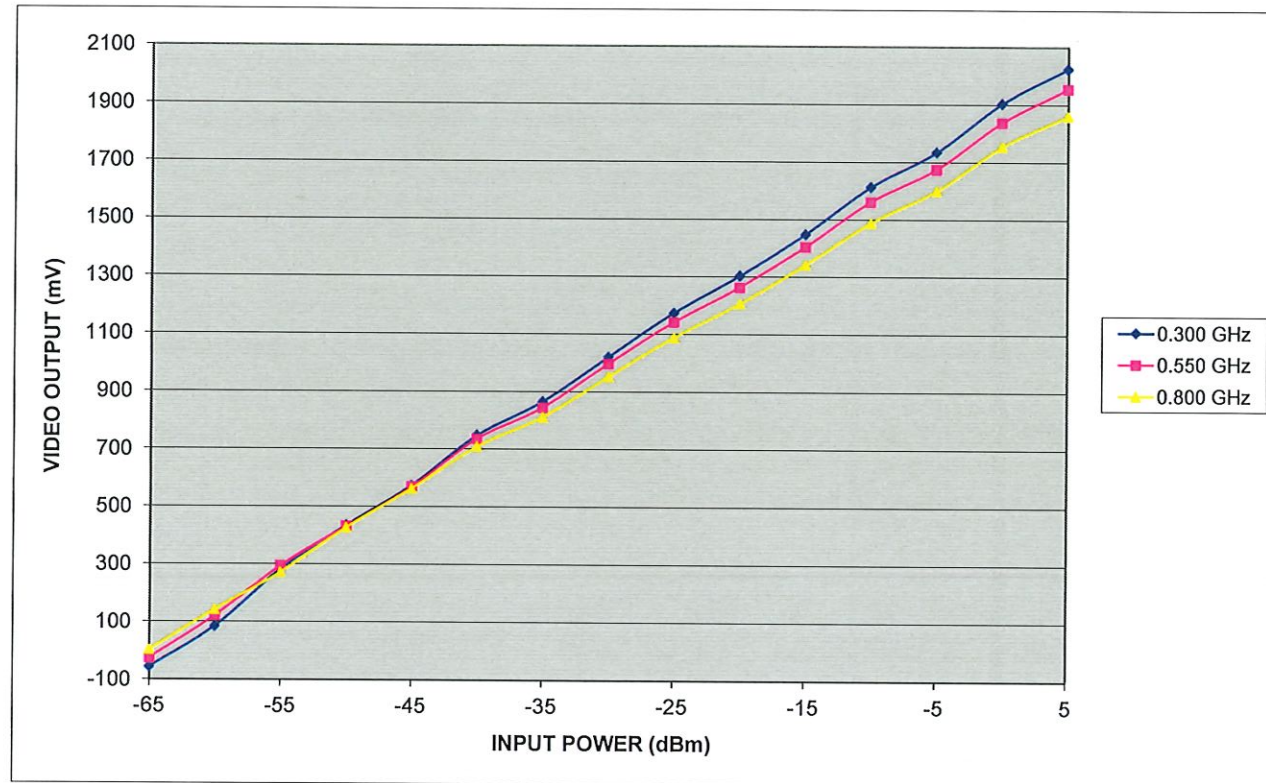
VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

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 123mA



LIMITED IF OUTPUT MAX -15.21 dBm
 LIMITED IF OUTPUT MIN -15.58 dBm
 LIMITED IF FLATNESS ± 0.19 dBm