

0.0 LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL5438
 TESTED BY: B. BAKER
 DATE: 24/MARCH/2009



PLANAR MONOLITHICS INDUSTRIES
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1639
 SLOPE (mV/dB) 28.68
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1671
 SLOPE (mV/dB) 27.24
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1471
 SLOPE (mV/dB) 25.49
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.96
 LINEARITY(-65 TO +5dBm) ± 0.96
 FREQUENCY FLATNESS ± 3.41

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-218	-84	55	217	335	497	636	773	923	1066	1198	1364	1491	1657	1772	Measured Value (mV)
0.30 Error (mV)	7	-2	-7	12	-13	5	1	-6	1	1	-11	12	-5	17	-11	Error (mV)
0.30 Limited IF Output (dBm)	-16.19	-15.84	-15.75	-15.68	-15.64	-15.60	-15.68	-15.68	-15.67	-15.68	-15.68	-15.69	-15.59	-15.60	-15.60	Measured Value (mV)
0.55 Measured Value (mV)	-185	-65	65	213	330	485	616	746	891	1026	1151	1311	1430	1585	1701	Measured Value (mV)
0.55 Error (mV)	15	-1	-7	5	-15	4	-1	-7	1	0	-11	12	-4	15	-6	Error (mV)
0.55 Limited IF Output (dBm)	-16.11	-15.88	-15.77	-15.68	-15.62	-15.60	-15.64	-15.65	-15.65	-15.66	-15.67	-15.66	-15.66	-15.67	-15.69	Measured Value (mV)
0.80 Measured Value (mV)	-162	-48	69	197	299	445	572	694	831	958	1078	1227	1342	1491	1601	Measured Value (mV)
0.80 Error (mV)	24	11	0	0	-24	-7	-7	-12	-2	-3	-10	11	-1	20	3	Error (mV)
0.80 Limited IF Output (dBm)	-16.00	-15.79	-15.72	-15.69	-15.64	-15.68	-15.62	-15.65	-15.66	-15.68	-15.68	-15.67	-15.67	-15.68	-15.72	Measured Value (mV)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR 2:1 MAX @ 25C 1.19:1

IF OUTPUT VSWR 2:1 MAX @ 25C 1.33:1

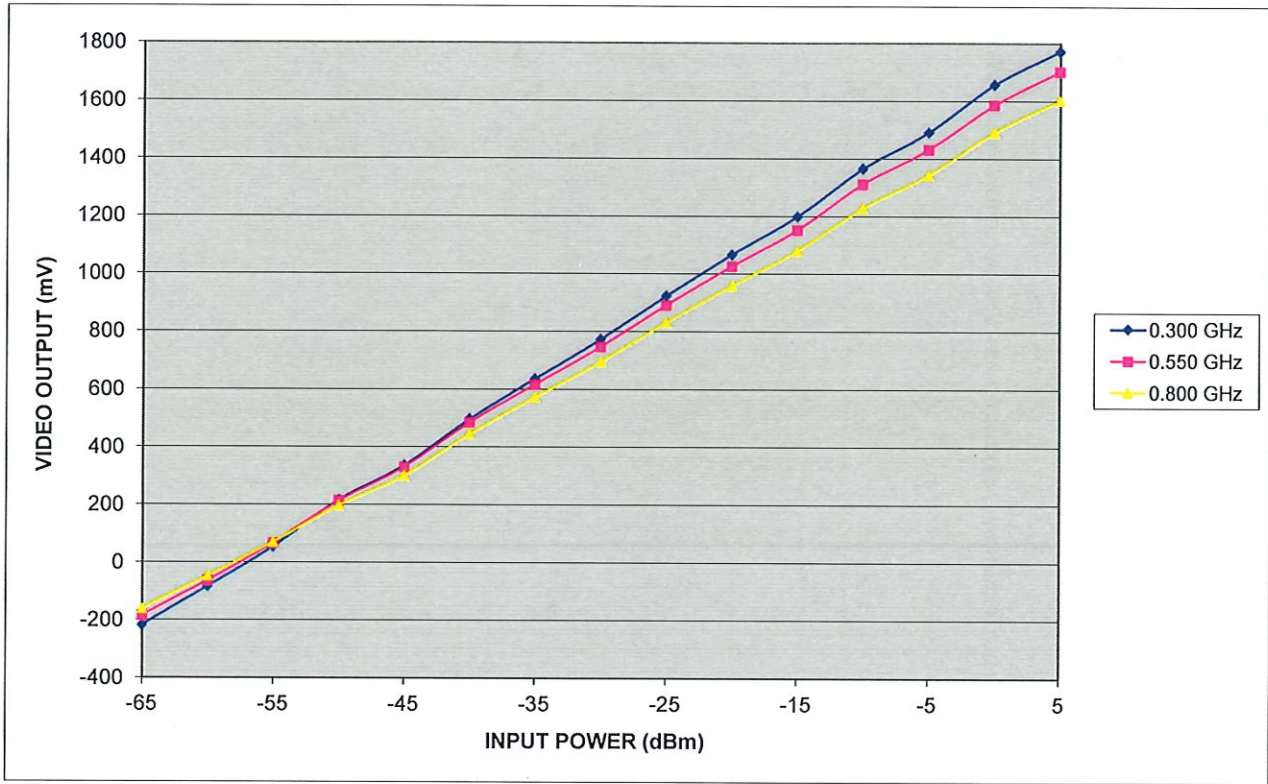
VIDEO RISE TIME 25 nS MAX @ 25C 24 nS

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 121mA



LIMITED IF OUTPUT MAX -15.57 dBm
 LIMITED IF OUTPUT MIN -16.19 dBm
 LIMITED IF FLATNESS ± 0.31 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C
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Frequency

0.30 INTERCEPT (mV) 1450
 SLOPE (mV/dB) 28.45
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1383
 SLOPE (mV/dB) 26.96
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1280
 SLOPE (mV/dB) 25.19

LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 1.30
 FREQUENCY FLATNESS ± 3.55

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 Measured Value (mV)	-366	-251	-129	22	159	301	449	590	729	886	1013	1175	1309	1471	1588	Measured Value (mV)	
0.30 Error (mV)	33	6	-14	-6	-10	-11	-5	-6	-10	5	-11	10	2	21	-4	Error (mV)	
0.30 Measured Value (mV)	-16.71	-16.01	-15.76	-15.61	-15.54	-15.49	-15.46	-15.44	-15.44	-15.44	-15.44	-15.45	-15.45	-15.45	-15.46	Measured Value (mV)	
0.55 Measured Value (mV)	-335	-226	-115	28	157	293	435	567	699	848	967	1122	1250	1401	1518	Measured Value (mV)	
0.55 Error (mV)	35	9	-15	-7	-13	-12	-5	-7	-9	4	-11	9	2	19	1	Error (mV)	
0.55 Measured Value (mV)	-16.47	-15.99	-15.76	-15.63	-15.64	-15.49	-15.49	-15.50	-15.50	-15.52	-15.52	-15.52	-15.53	-15.53	-15.55	Measured Value (mV)	
0.80 Measured Value (mV)	-329	-217	-112	15	135	257	390	513	638	777	891	1035	1157	1300	1411	Measured Value (mV)	
0.80 Error (mV)	28	15	-7	-6	-11	-15	-8	-11	-12	1	-11	7	3	20	5	Error (mV)	
0.80 Measured Value (mV)	-16.39	-15.90	-15.71	-15.60	-15.55	-15.54	-15.55	-15.56	-15.57	-15.58	-15.58	-15.58	-15.58	-15.58	-15.60	-15.62	Measured Value (mV)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR 1.19:1
 2:1 MAX @ 25C

IF OUTPUT VSWR 1.33:1
 2:1 MAX @ 25C

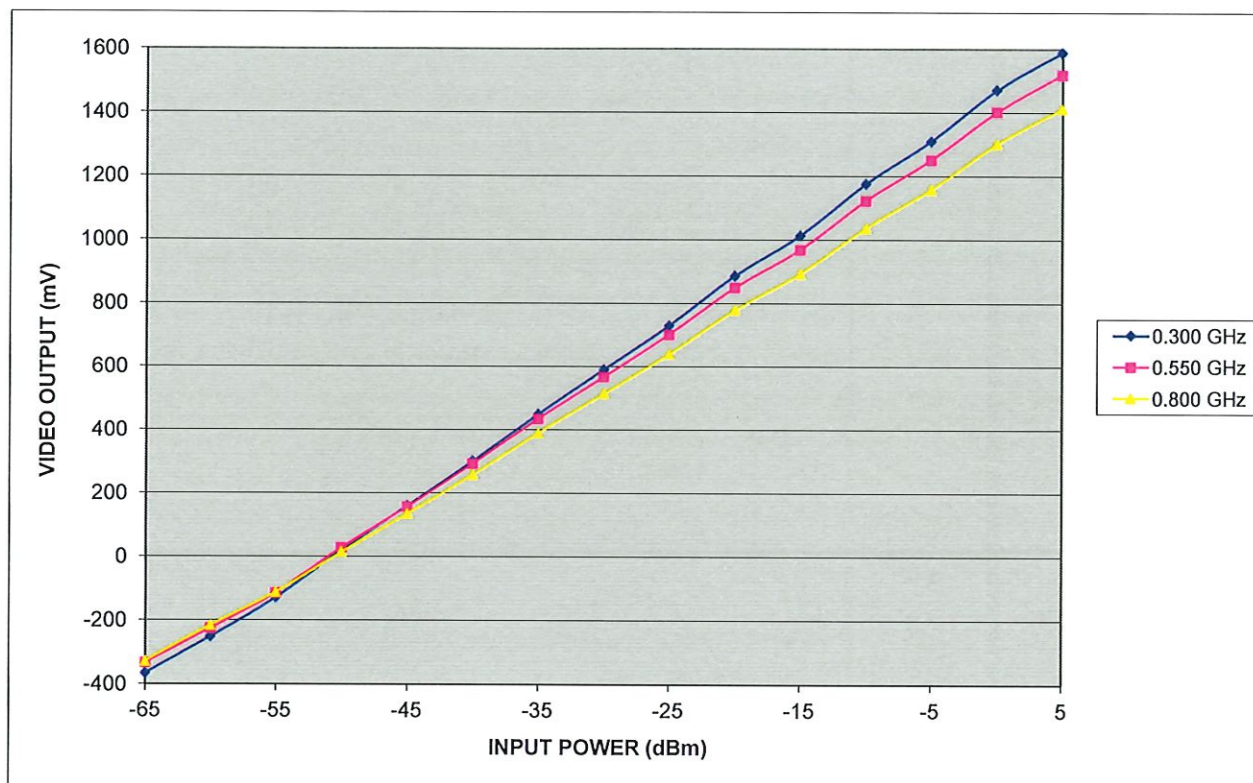
VIDEO RISE TIME 24 nS
 25 nS MAX @ 25C

VIDEO FALL TIME 46 nS
 80 nS MAX @ 25C

PROPERGATION DELAY 34 nS
 40 nS MAX @ 25C

+5 V @ 70 mA MAX 16 Ma

-5.2 V @ 200 mA MAX 121mA



LIMITED IF OUTPUT MAX -15.44 dBm
 LIMITED IF OUTPUT MIN -16.71 dBm
 LIMITED IF FLATNESS ± 0.64 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C
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Frequency

0.30 INTERCEPT (mV) 1421
 SLOPE (mV/dB) 28.43
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1354
 SLOPE (mV/dB) 26.96
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1248
 SLOPE (mV/dB) 25.16
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 1.46
 FREQUENCY FLATNESS ± 3.61

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-388	-278	-156	-10	130	271	418	562	698	858	984	1146	1281	1443	1563	Measured Value (mV)
0.30 Error (mV)	39	7	-13	-9	-11	-13	-8	-6	-12	6	-11	9	3	22	0	Error (mV)
0.30 Limited IF Output (dBm)	-17.09	-16.31	-16.00	-15.86	-15.77	-15.71	-15.68	-15.66	-15.66	-15.66	-15.66	-15.66	-15.67	-15.67	-15.67	Limited IF Output (dBm)
0.55 Measured Value (mV)	-359	-253	-143	-4	128	262	403	538	668	820	939	1093	1222	1373	1493	Measured Value (mV)
0.55 Error (mV)	39	11	-14	-10	-13	-14	-8	-7	-12	5	-11	8	3	19	4	Error (mV)
0.55 Limited IF Output (dBm)	-16.81	-16.25	-16.00	-15.84	-15.76	-15.70	-15.69	-15.70	-15.71	-15.72	-15.72	-15.72	-15.73	-15.73	-15.76	Limited IF Output (dBm)
0.80 Measured Value (mV)	-356	-246	-141	-18	105	226	357	484	605	746	860	1003	1126	1269	1382	Measured Value (mV)
0.80 Error (mV)	31	15	-6	-8	-11	-15	-10	-9	-14	1	-11	6	4	20	8	Error (mV)
0.80 Limited IF Output (dBm)	-16.74	-16.17	-15.95	-15.82	-15.76	-15.75	-15.75	-15.77	-15.77	-15.77	-15.78	-15.78	-15.78	-15.80	-15.82	Limited IF Output (dBm)

TSS 25C
 -65dBm MAX -67dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.63 V

INPUT VSWR
 2:1 MAX @ 25C 1.19:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.33:1

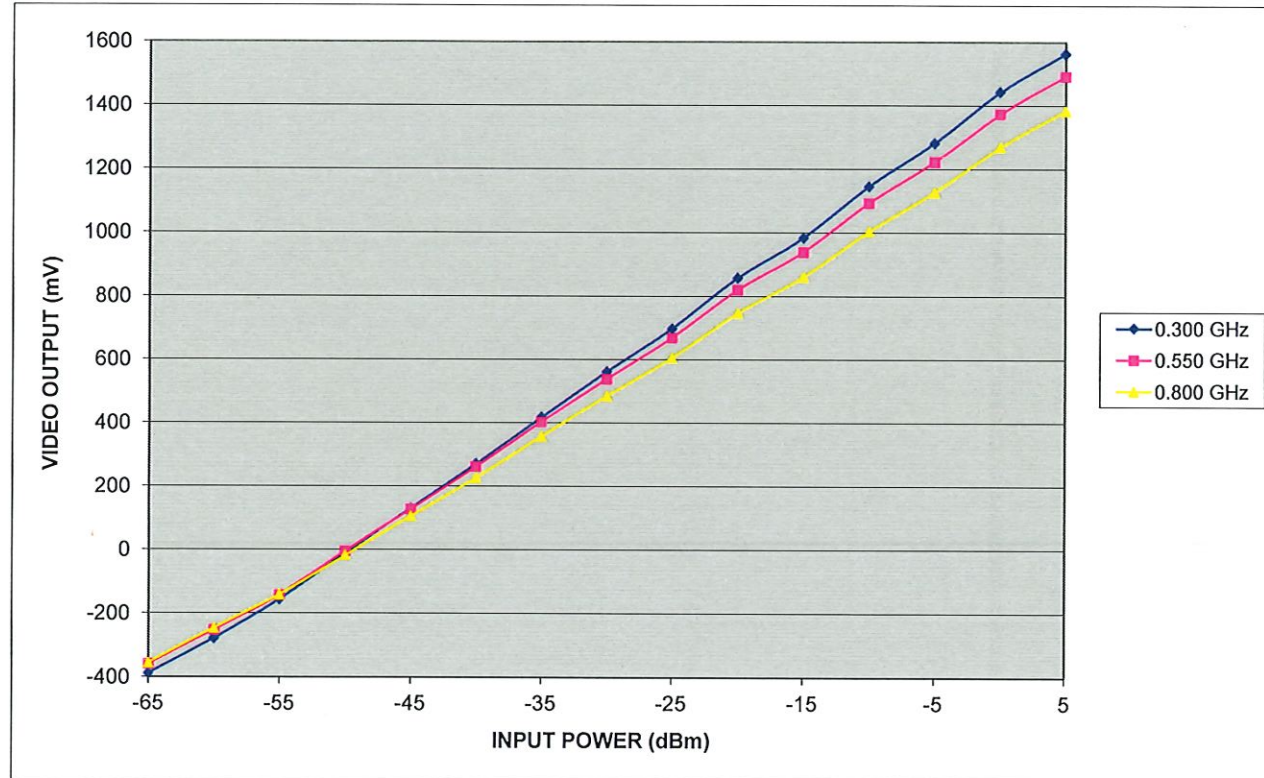
VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

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 121mA



LIMITED IF OUTPUT MAX -15.66 dBm
 LIMITED IF OUTPUT MIN -17.09 dBm
 LIMITED IF FLATNESS ± 0.71 dBm

LOG TRANSFER WITH FREQUENCY @ -55 °C
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Frequency

0.30 INTERCEPT (mV) 1921
 SLOPE (mV/dB) 29.94
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1849
 SLOPE (mV/dB) 28.36
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1763
 SLOPE (mV/dB) 27.3
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.40
 LINEARITY(-65 TO +5dBm) ± 1.40
 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)	-59	97	291	439	580	756	874	1030	1186	1317	1463	1631	1755	1926	2052	Measured Value (mV)
0.30 Error (mV)	-33	-27	17	15	7	33	2	7	13	-5	-9	10	-16	5	-18	Error (mV)
0.30 Limited IF Output (dBm)	-15.16	-15.23	-15.43	-15.60	-15.63	-15.63	-15.65	-15.62	-15.63	-15.65	-15.66	-15.65	-15.64	-15.62	-15.49	Limited IF Output (dBm)
0.55 Measured Value (mV)	-18	134	303	436	573	739	851	1005	1154	1276	1416	1576	1691	1854	1978	Measured Value (mV)
0.55 Error (mV)	-23	-13	14	5	0	25	-5	7	14	-5	-7	11	-16	5	-12	Error (mV)
0.55 Limited IF Output (dBm)	-15.08	-15.12	-15.23	-15.30	-15.39	-15.38	-15.30	-15.31	-15.35	-15.39	-15.39	-15.38	-15.37	-15.37	-15.36	Limited IF Output (dBm)
0.80 Measured Value (mV)	-29	108	252	390	554	709	812	952	1092	1211	1347	1498	1612	1766	1881	Measured Value (mV)
0.80 Error (mV)	-18	-17	-9	-8	20	38	5	8	12	-6	-6	8	-14	4	-18	Error (mV)
0.80 Limited IF Output (dBm)	-15.09	-15.12	-15.19	-15.34	-15.39	-15.41	-15.39	-15.35	-15.38	-15.40	-15.38	-15.37	-15.37	-15.40	-15.47	Limited IF Output (dBm)

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 1.33:1

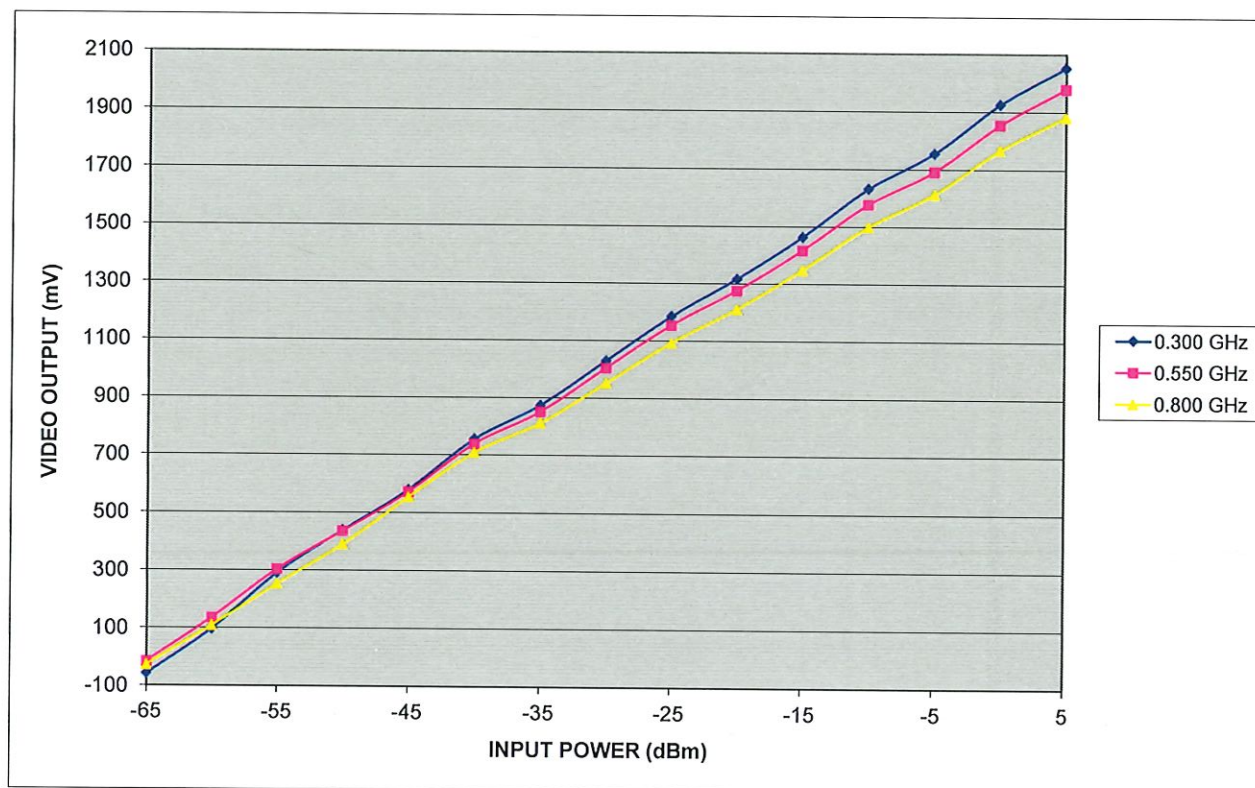
VIDEO RISE TIME
 25 nS MAX @ 25C 24 nS

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 121mA



LIMITED IF OUTPUT MAX -15.08 dBm
 LIMITED IF OUTPUT MIN -15.56 dBm
 LIMITED IF FLATNESS ± 0.24 dBm