

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4366
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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 EMAIL: SALES@PLANARMONOLITHICS.COM
 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1709
 SLOPE (mV/dB) 28.87
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1647
 SLOPE (mV/dB) 27.47
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1551
 SLOPE (mV/dB) 25.77
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.99
 LINEARITY(-65 TO +5dBm) ± 0.99
 FREQUENCY FLATNESS ± 3.21

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-167	-30	123	276	398	563	698	836	992	1129	1286	1430	1559	1723	1844	
0.30 Error (mV)	1	-6	2	10	-12	9	0	-7	5	-2	-10	10	-6	15	-9	
0.30 Measured Value (mV)	-16.07	-15.83	-15.77	-15.72	-15.68	-15.65	-15.63	-15.62	-15.61	-15.62	-15.62	-15.63	-15.63	-15.63	-15.64	
0.55 Measured Value (mV)	-129	-5	138	275	397	556	684	815	967	1094	1226	1383	1605	1660	1779	
0.55 Error (mV)	9	-4	1	2	-14	8	-2	-8	7	-4	-9	11	-5	13	-6	
0.55 Measured Value (mV)	-16.00	-15.84	-15.76	-15.69	-15.63	-15.63	-15.67	-15.66	-15.66	-15.67	-15.68	-15.67	-15.67	-15.68	-15.70	
0.80 Measured Value (mV)	-103	15	141	256	365	515	640	764	909	1028	1156	1303	1420	1570	1683	
0.80 Error (mV)	21	10	8	-6	-26	-5	-8	-13	2	-7	-8	10	-2	19	3	
0.80 Measured Value (mV)	-15.92	-15.78	-15.73	-15.71	-15.66	-15.60	-15.64	-15.66	-15.68	-15.69	-15.68	-15.68	-15.68	-15.70	-15.74	

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.36V

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

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

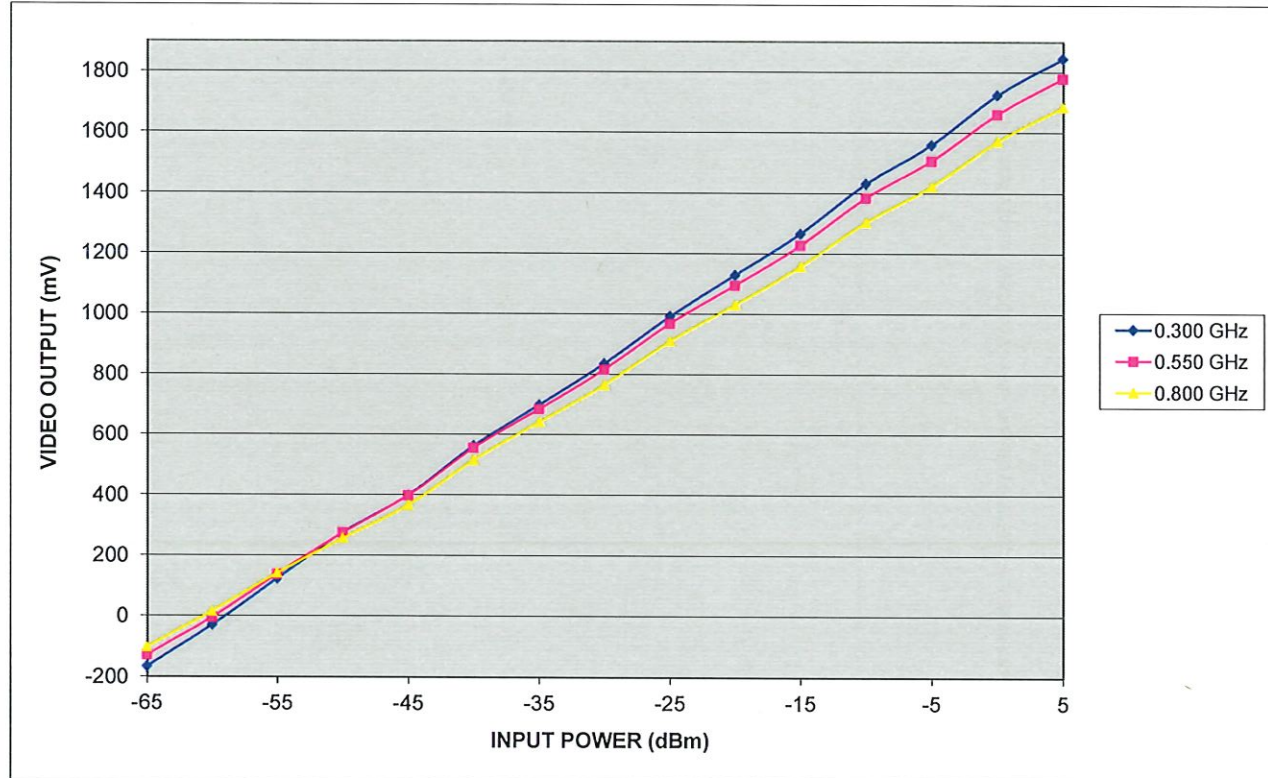
VIDEO RISE TIME 25 nS MAX @ 25C
 16 nS

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 125 mA



LIMITED IF OUTPUT MAX -15.60 dBm
 LIMITED IF OUTPUT MIN -16.07 dBm
 LIMITED IF FLATNESS ± 0.24 dBm

LOG TRANSFER WITH FREQUENCY @ +85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4366
 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1549
 SLOPE (mV/dB) 28.98
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1488
 SLOPE (mV/dB) 27.49
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1386
 SLOPE (mV/dB) 25.68
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76
 LINEARITY(-65 TO +5dBm) ± 1.16
 FREQUENCY FLATNESS ± 3.44

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-306	-186	-67	101	235	381	534	671	818	973	1104	1268	1405	1568	1693	
0.30 Error (mV)	28	3	-13	1	-11	-9	-1	-9	-7	3	-11	8	1	18	-1	
0.30 Measured Value (mV)	-16.41	-15.87	-15.66	-15.55	-15.48	-15.43	-15.40	-15.39	-15.39	-15.39	-15.39	-15.40	-15.40	-15.40	-15.40	
0.55 Measured Value (mV)	-267	-156	-35	111	237	378	524	652	796	939	1065	1222	1352	1505	1627	
0.55 Error (mV)	32	5	-11	-3	-14	-11	-2	-12	-5	1	-10	9	2	17	2	
0.55 Measured Value (mV)	-16.21	-15.84	-15.65	-15.54	-15.46	-15.42	-15.42	-15.43	-15.44	-15.45	-15.45	-15.45	-15.45	-15.46	-15.48	
0.80 Measured Value (mV)	-257	-143	-32	101	217	343	480	599	735	869	990	1136	1260	1405	1521	
0.80 Error (mV)	27	12	-5	0	-13	-15	-7	-16	-8	-3	-10	7	3	20	7	
0.80 Measured Value (mV)	-16.09	-15.72	-15.58	-15.50	-15.48	-15.48	-15.47	-15.48	-15.48	-15.49	-15.49	-15.49	-15.50	-15.51	-15.54	

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.25

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

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

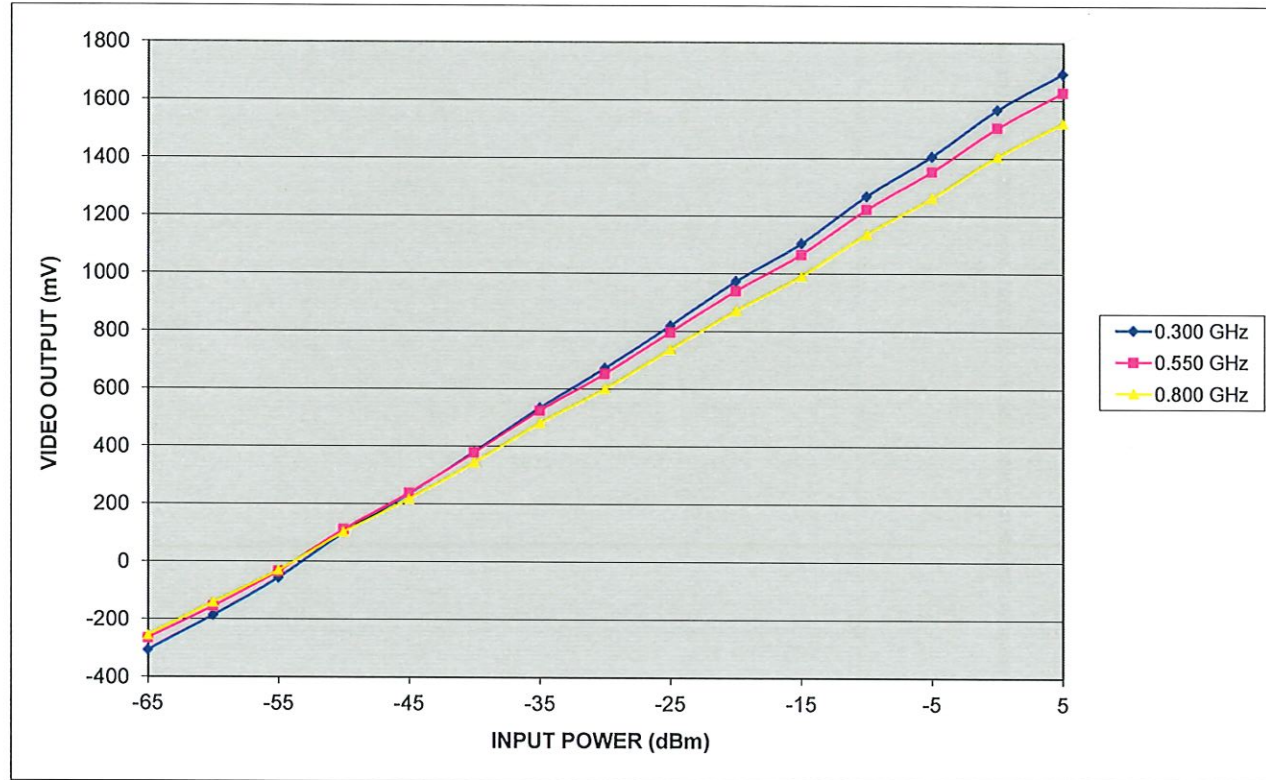
VIDEO RISE TIME 25 nS MAX @ 25C
 16 nS

VIDEO FALL TIME 80 nS MAX @ 25C
 38 nS

PROPAGATION DELAY 40 nS MAX @ 25C
 12 nS

+5 V @ 70 mA MAX 13 mA

-5.2 V @ 200 mA MAX 128 mA



LIMITED IF OUTPUT MAX -15.39 dBm
 LIMITED IF OUTPUT MIN -16.41 dBm
 LIMITED IF FLATNESS ± 0.51 dBm

LOG TRANSFER WITH FREQUENCY @ +95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4366
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 DATE: 12/AUG/2008



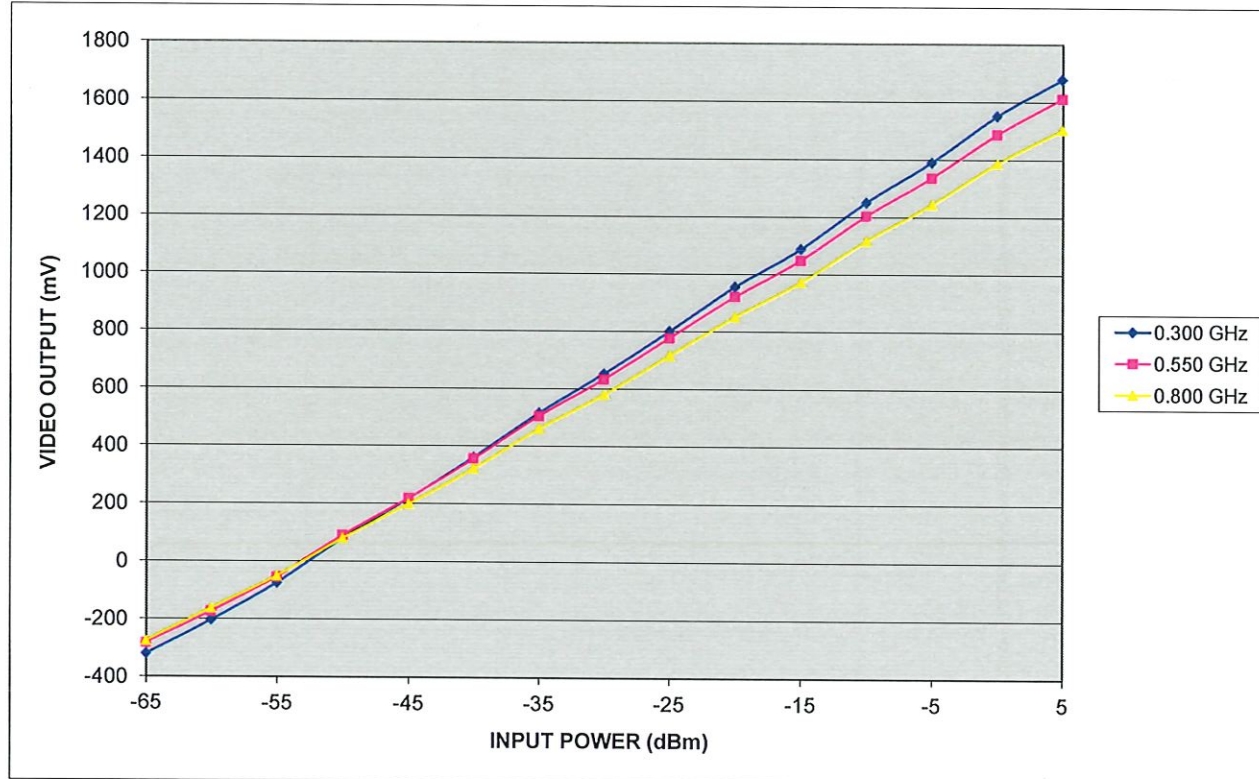
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Frequency

0.30 INTERCEPT (mV) 1533
 SLOPE (mV/dB) 29
 LIMITED IF OUTPUT (dBm)
 0.55 INTERCEPT (mV) 1470
 SLOPE (mV/dB) 27.51
 LIMITED IF OUTPUT (dBm)
 0.80 INTERCEPT (mV) 1367
 SLOPE (mV/dB) 25.71
 LIMITED IF OUTPUT (dBm)
 LINEARITY(-60 TO 0dBm) ± 0.74
 LINEARITY(-65 TO +5dBm) ± 1.25
 FREQUENCY FLATNESS ± 3.50

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-321	-204	-75	81	217	361	516	653	800	955	1087	1250	1389	1551	1678	Measured Value (mV)
0.30 Error (mV)	31	4	-12	-2	-10	-11	-2	-9	-8	3	-11	8	2	18	0	Error (mV)
0.30 Limited IF Output (dBm)	-16.47	-15.90	-15.67	-15.55	-15.48	-15.43	-15.40	-15.38	-15.38	-15.38	-15.38	-15.39	-15.39	-15.39	-15.39	Measured Value (mV)
0.55 Measured Value (mV)	-284	-175	-55	90	219	357	505	633	776	921	1047	1203	1335	1487	1611	Measured Value (mV)
0.55 Error (mV)	35	6	-11	-5	-13	-13	-2	-12	-6	1	-10	8	3	17	3	Error (mV)
0.55 Limited IF Output (dBm)	-16.24	-15.85	-15.65	-15.53	-15.45	-15.41	-15.41	-15.41	-15.42	-15.43	-15.43	-15.43	-15.43	-15.44	-15.47	Measured Value (mV)
0.80 Measured Value (mV)	-278	-164	-52	80	198	322	460	580	715	850	971	1116	1242	1386	1503	Measured Value (mV)
0.80 Error (mV)	27	13	-4	-1	-11	-16	-6	-16	-9	-2	-10	6	4	19	8	Error (mV)
0.80 Limited IF Output (dBm)	-16.14	-15.73	-15.67	-15.49	-15.46	-15.46	-15.46	-15.46	-15.47	-15.47	-15.47	-15.47	-15.48	-15.49	-15.53	Measured Value (mV)

TSS 25C
 -65dBm MAX -65 dBm
 OUTPUT VOLTAGE 25C
 2.7V MAX 2.24
 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 13 mA
 -5.2 V @ 200 mA MAX 128 mA



LIMITED IF OUTPUT MAX -15.38 dBm
 LIMITED IF OUTPUT MIN -16.47 dBm
 LIMITED IF FLATNESS ± 0.54 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4366
 TESTED BY: B. Baker
 DATE: 12/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 2003
 SLOPE (mV/dB) 30.05
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1944
 SLOPE (mV/dB) 28.8
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1855
 SLOPE (mV/dB) 27.22
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.42
 LINEARITY(-65 TO +5dBm) ± 1.42
 FREQUENCY FLATNESS ± 3.22

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	28	162	368	503	646	834	958	1120	1272	1398	1549	1711	1834	2002	2131	
0.30 Error (mV)	-21	-38	18	3	-4	33	7	19	21	-4	-3	9	-19	0	-22	
0.30 Limited IF Output (dBm)	-15.62	-15.69	-15.67	-15.73	-15.81	-15.87	-15.85	-15.87	-15.87	-15.89	-15.90	-15.89	-15.90	-15.90	-15.90	
0.55 Measured Value (mV)	51	183	371	504	655	825	941	1101	1245	1363	1513	1665	1782	1943	2067	
0.55 Error (mV)	-21	-33	10	0	6	33	4	20	21	-5	1	8	-19	-1	-22	
0.55 Limited IF Output (dBm)	-15.66	-15.62	-15.63	-15.69	-15.70	-15.68	-15.69	-15.69	-15.72	-15.74	-15.75	-15.74	-15.74	-15.74	-15.76	
0.80 Measured Value (mV)	57	186	348	515	669	802	903	1048	1186	1301	1447	1588	1705	1857	1970	
0.80 Error (mV)	-29	-36	-11	20	39	36	0	10	11	-10	-1	5	-15	2	-22	
0.80 Limited IF Output (dBm)	-15.65	-15.61	-15.65	-16.67	-15.73	-15.79	-15.77	-15.72	-15.72	-15.71	-15.69	-15.68	-15.69	-15.73	-15.79	

TSS 25C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.6

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

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

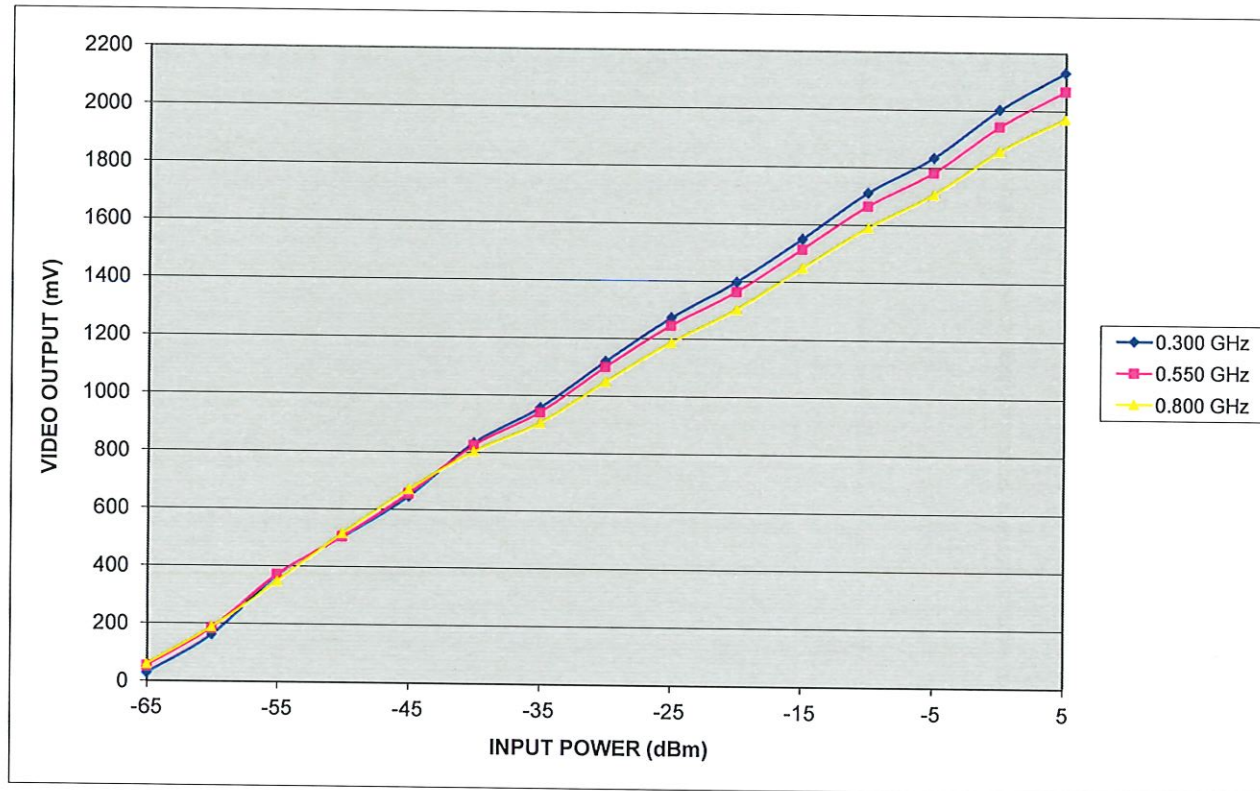
VIDEO RISE TIME
 25 nS MAX @ 25C 16 nS

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 125 mA



LIMITED IF OUTPUT MAX -15.61 dBm
 LIMITED IF OUTPUT MIN -15.90 dBm
 LIMITED IF FLATNESS ± 0.19 dBm