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LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5445  
 TESTED BY: B. BAKER  
 DATE: 23/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)    1614  
 SLOPE (mV/dB)    28.51  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1551  
 SLOPE (mV/dB)    27.07  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1453  
 SLOPE (mV/dB)    25.33  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.03  
 LINEARITY(-65 TO +5dBm)    ± 1.05  
 FREQUENCY FLATNESS    ± 3.30

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-230	-98	40	199	316	477	614	751	902	1044	1175	1342	1467	1633	1746	Measured Value (mV)
0.30 Error (mV)	10	-1	-6	11	-15	4	-2	-8	1	0	-11	13	-4	19	-11	Error (mV)
0.30 Measured Value (mV)	-16.10	-15.77	-15.68	-15.61	-15.67	-15.62	-15.60	-15.49	-15.49	-15.49	-15.60	-15.60	-15.61	-15.62	-15.62	Measured Value (mV)
0.55 Measured Value (mV)	-192	-73	58	201	317	471	600	730	877	1008	1136	1293	1413	1568	1679	Measured Value (mV)
0.55 Error (mV)	17	0	-5	3	-16	3	-3	-9	3	-2	-9	13	-3	17	-8	Error (mV)
0.55 Measured Value (mV)	-16.00	-15.79	-15.69	-15.69	-15.52	-15.61	-15.66	-15.66	-15.66	-15.67	-15.68	-15.68	-15.68	-15.69	-15.61	Measured Value (mV)
0.80 Measured Value (mV)	-167	-55	62	185	287	432	557	679	818	942	1065	1212	1327	1476	1581	Measured Value (mV)
0.80 Error (mV)	27	11	2	-2	-26	-8	-10	-14	-1	-5	-9	12	0	23	1	Error (mV)
0.80 Measured Value (mV)	-15.91	-15.73	-15.67	-15.64	-15.68	-15.62	-15.66	-15.68	-15.60	-15.62	-15.62	-15.62	-15.62	-15.63	-15.67	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        1.70:1

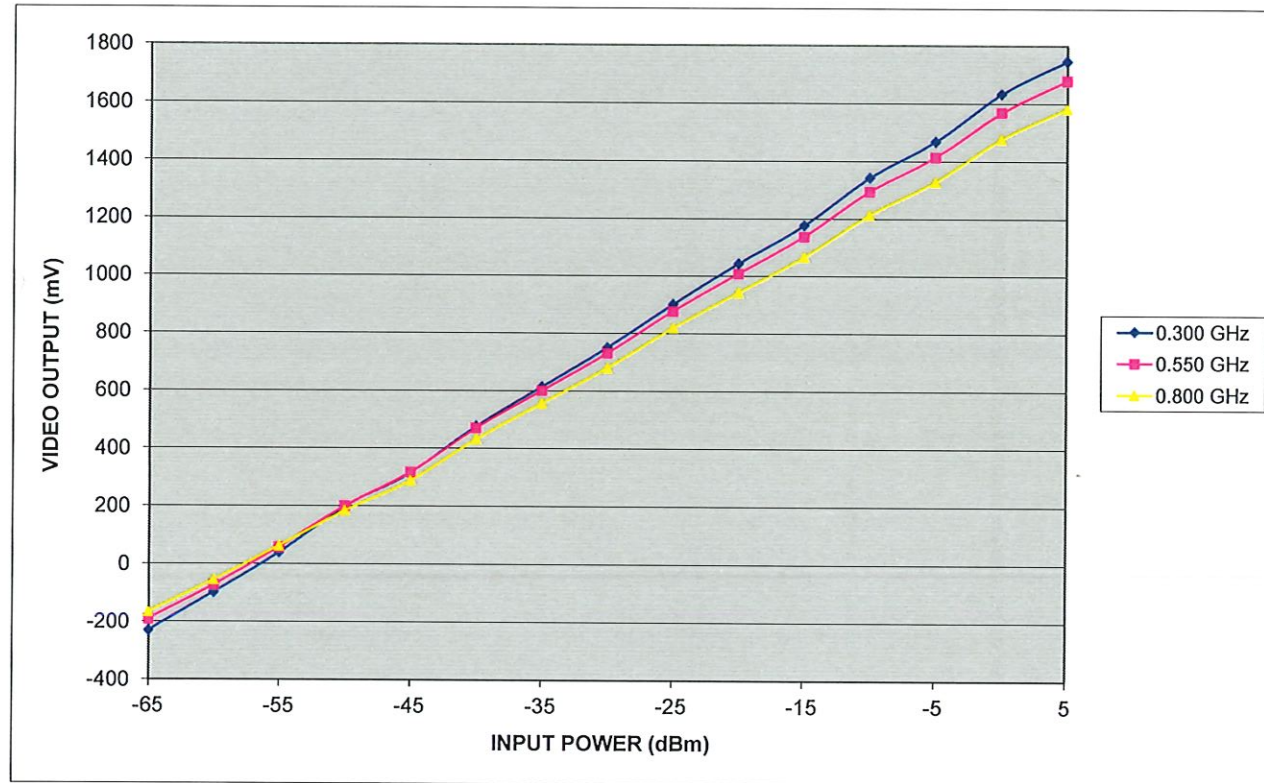
VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

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    -15.49 dBm  
 LIMITED IF OUTPUT MIN    -16.10 dBm  
 LIMITED IF FLATNESS    ± 0.31 dBm

0.0

LOG TRANSFER WITH FREQUENCY @ +85 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5445  
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Frequency

0.30 INTERCEPT (mV)    1437  
 SLOPE (mV/dB)            28.2  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1376  
 SLOPE (mV/dB)            26.8  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1277  
 SLOPE (mV/dB)            25.3  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.85  
 LINEARITY(-65 TO +5dBm) ± 1.30  
 FREQUENCY FLATNESS        ± 3.48

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-359	-244	-127	22	154	295	442	581	721	877	1003	1167	1299	1461	1577	Measured Value (mV)
0.30 Error (mV)	37	11	-14	-5	-15	-14	-8	-10	-11	4	-11	11	3	24	-2	Error (mV)
0.30 Limited IF Output (dBm)	-16.44	-16.86	-15.63	-15.60	-15.43	-15.38	-15.34	-15.33	-15.32	-15.32	-15.32	-15.33	-15.33	-15.33	-15.32	Measured Value (mV)
0.55 Measured Value (mV)	-332	-223	-111	30	155	291	432	561	697	842	963	1118	1244	1396	1509	Measured Value (mV)
0.55 Error (mV)	35	10	-13	-5	-14	-13	-5	-10	-9	2	-10	11	3	21	-1	Error (mV)
0.55 Limited IF Output (dBm)	-16.28	-15.84	-15.63	-15.60	-15.42	-15.37	-15.37	-15.38	-15.39	-15.40	-15.41	-15.41	-15.41	-15.42	-15.43	Measured Value (mV)
0.80 Measured Value (mV)	-348	-229	-121	11	130	253	386	508	636	771	887	1032	1152	1296	1403	Measured Value (mV)
0.80 Error (mV)	20	12	-7	-1	-8	-12	-5	-10	-9	1	-10	8	2	19	0	Error (mV)
0.80 Limited IF Output (dBm)	-16.35	-15.82	-15.61	-15.60	-15.45	-15.44	-15.44	-15.45	-15.46	-15.47	-15.47	-15.48	-15.49	-15.50	-15.54	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              1.70:1  
 2:1 MAX @ 25C

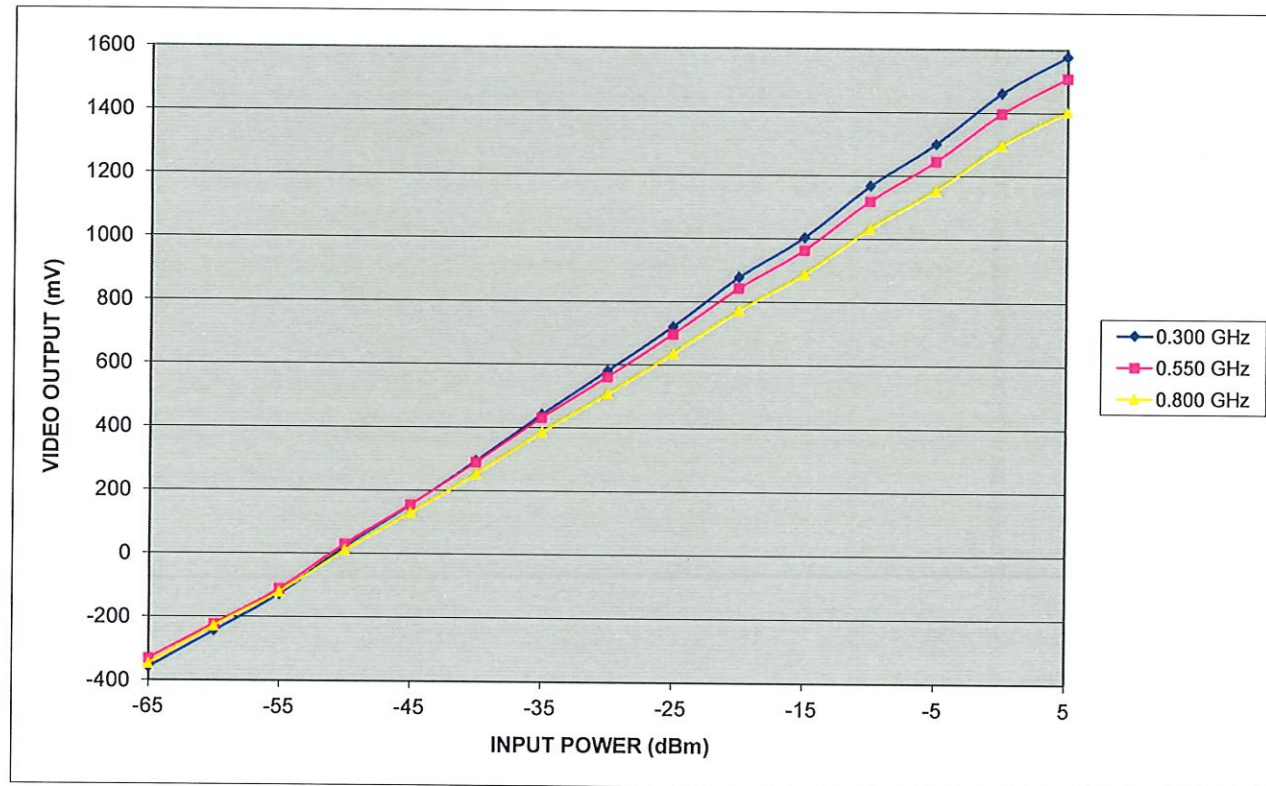
VIDEO RISE TIME             24 nS  
 25 nS MAX @ 25C

VIDEO FALL TIME             46 nS  
 80 nS MAX @ 25C

PROPAGATION DELAY         34 nS  
 40 nS MAX @ 25C

+5 V @ 70 mA MAX            16 mA

-5.2 V @ 200 mA MAX        122mA



LIMITED IF OUTPUT MAX    -15.32 dBm  
 LIMITED IF OUTPUT MIN    -16.44 dBm  
 LIMITED IF FLATNESS       ± 0.56 dBm

0.0

LOG TRANSFER WITH FREQUENCY @ +95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5445  
 TESTED BY: B. BAKER  
 DATE: 23/MARCH/2009



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Frequency

0.30 INTERCEPT (mV)    1417  
 SLOPE (mV/dB)    28.38  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1354  
 SLOPE (mV/dB)    26.86  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1251  
 SLOPE (mV/dB)    25.16  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.82  
 LINEARITY(-65 TO +5dBm)    ± 1.46  
 FREQUENCY FLATNESS    ± 3.51

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-389	-278	-156	-9	129	268	417	558	696	855	981	1143	1279	1439	1559	Measured Value (mV)
0.30 Error (mV)	38	8	-13	-8	-11	-14	-8	-8	-12	5	-11	10	3	22	0	Error (mV)
0.30 Limited IF Output (dBm)	-16.86	-16.12	-15.84	-15.69	-15.61	-15.55	-15.62	-15.50	-15.49	-15.49	-15.49	-15.50	-15.50	-15.50	-15.51	Measured Value (mV)
0.55 Measured Value (mV)	-353	-247	-137	2	131	264	407	538	672	820	941	1094	1223	1374	1491	Measured Value (mV)
0.55 Error (mV)	39	11	-13	-9	-14	-15	-7	-10	-11	3	-10	9	4	20	3	Error (mV)
0.55 Limited IF Output (dBm)	-16.56	-16.07	-15.83	-15.68	-15.59	-15.64	-15.63	-15.64	-15.55	-15.56	-15.66	-15.67	-15.67	-15.68	-15.60	Measured Value (mV)
0.80 Measured Value (mV)	-352	-243	-139	-14	107	228	361	484	610	748	863	1006	1130	1272	1383	Measured Value (mV)
0.80 Error (mV)	32	15	-6	-7	-12	-17	-9	-12	-13	0	-10	7	5	21	7	Error (mV)
0.80 Limited IF Output (dBm)	-16.52	-16.00	-15.79	-15.66	-15.61	-15.60	-15.60	-15.61	-15.62	-15.62	-15.63	-15.63	-15.64	-15.65	-15.69	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    1.70:1

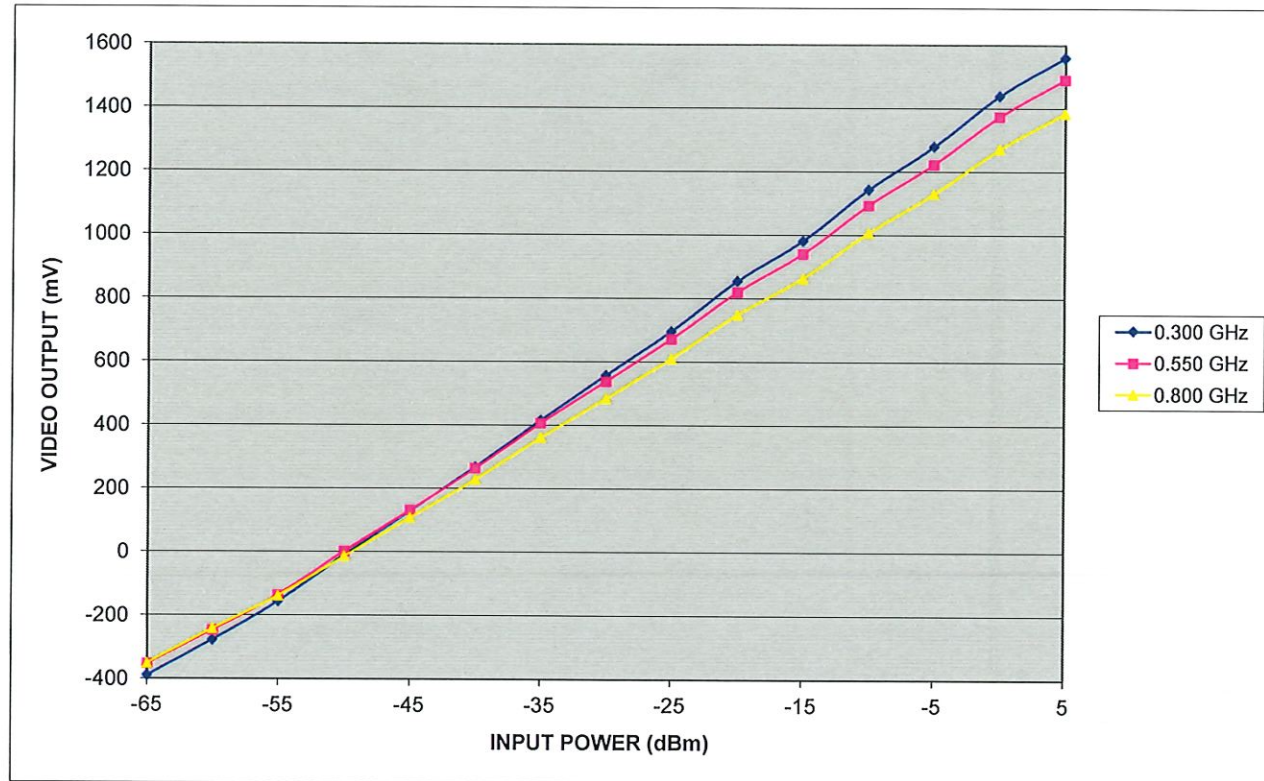
VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

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    -15.49 dBm  
 LIMITED IF OUTPUT MIN    -16.86 dBm  
 LIMITED IF FLATNESS    ± 0.69 dBm

0.0

LOG TRANSFER WITH FREQUENCY @ -55 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL5445  
 TESTED BY: B. BAKER  
 DATE: 23/MARCH/2009



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Frequency

0.30 INTERCEPT (mV)    1907  
 SLOPE (mV/dB)    30.1  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1842  
 SLOPE (mV/dB)    28.62  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV)    1749  
 SLOPE (mV/dB)    26.88  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 1.45  
 LINEARITY(-65 TO +5dBm)    ± 1.45  
 FREQUENCY FLATNESS    ± 3.31

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-71	58	261	419	564	741	858	1014	1171	1303	1448	1617	1740	1911	2035	Measured Value (mV)
0.30 Error (mV)	-23	-44	9	17	11	38	4	9	16	-3	-8	10	-17	3	-23	Error (mV)
0.30 Limited IF Output (dBm)	-15.21	-15.22	-15.43	-15.64	-15.63	-15.64	-15.65	-15.62	-15.62	-15.64	-15.55	-15.55	-15.66	-15.67	-15.67	Measured Value (mV)
0.55 Measured Value (mV)	-41	98	276	420	562	726	840	993	1143	1264	1407	1566	1682	1846	1966	Measured Value (mV)
0.55 Error (mV)	-23	-26	8	9	8	29	0	10	17	-5	-5	10	-17	4	-19	Error (mV)
0.55 Limited IF Output (dBm)	-15.14	-15.16	-15.24	-15.30	-15.42	-15.39	-15.31	-15.33	-15.37	-15.41	-15.42	-15.41	-15.41	-15.42	-15.43	Measured Value (mV)
0.80 Measured Value (mV)	-5	135	267	383	551	703	806	945	1086	1203	1341	1489	1604	1758	1870	Measured Value (mV)
0.80 Error (mV)	-7	-1	-4	-22	12	30	-2	2	9	-8	-5	9	-11	10	-13	Error (mV)
0.80 Limited IF Output (dBm)	-15.14	-15.17	-15.23	-15.34	-15.38	-15.40	-15.37	-15.34	-15.37	-15.38	-15.37	-15.37	-15.37	-15.39	-15.46	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        1.70:1

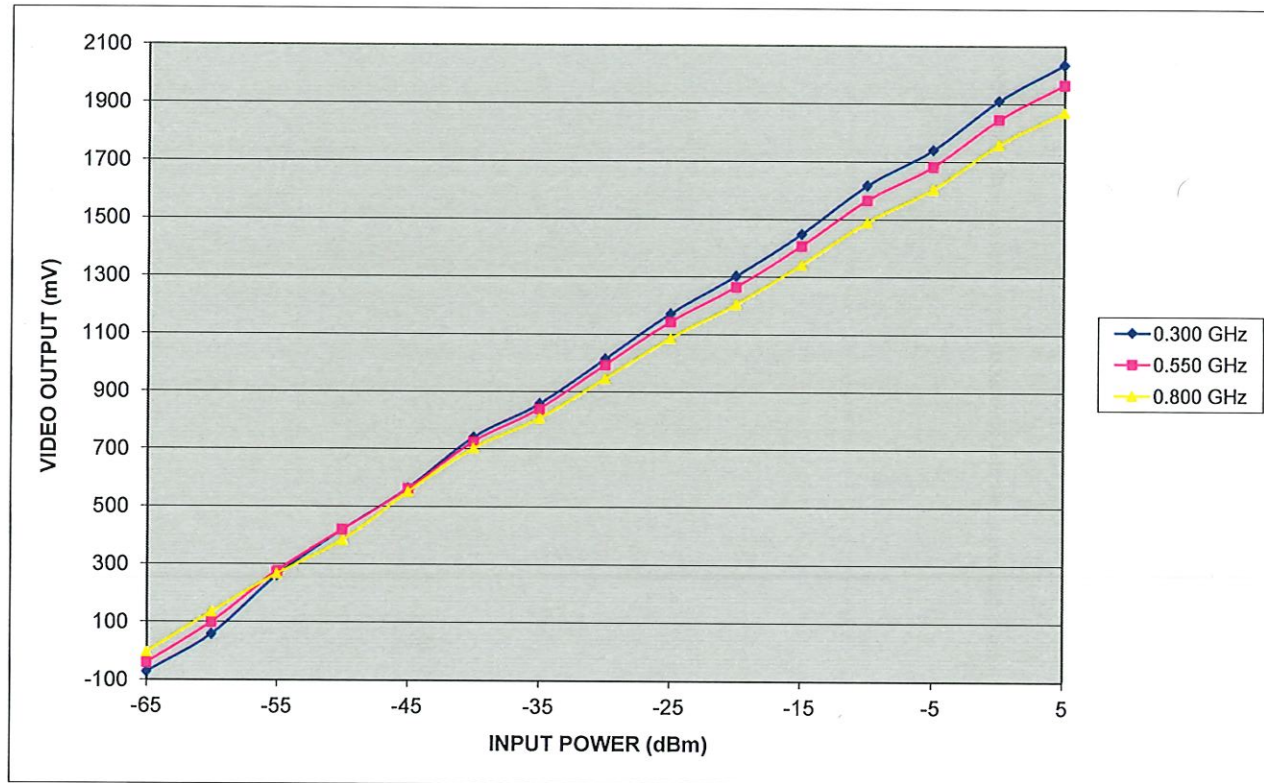
VIDEO RISE TIME  
 25 nS MAX @ 25C    24 nS

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    -15.14 dBm  
 LIMITED IF OUTPUT MIN    -15.57 dBm  
 LIMITED IF FLATNESS       ± 0.22 dBm