

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4305  
 TESTED BY: H. HAHN  
 DATE: 5/AUG/2008



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 ISO 9001:2000 CERTIFIED

Frequency

-65   -60   -55   -50   -45   -40   -35   -30   -25   -20   -15   -10   -5   0   5   RF Input Power (dBm)

0.30 INTERCEPT (mV)    1641  
 SLOPE (mV/dB)            27.63  
 LIMITED IF OUTPUT (dBm)

-155	-27	125	269	392	544	676	804	959	1083	1220	1375	1501	1654	1767	Measured Value (mV)
0	-10	3	10	-6	8	1	-8	8	-6	-7	10	-2	13	-13	Error (mV)
-16.35	-16.13	-16.09	-16.04	-16.01	-15.98	-15.96	-15.95	-15.95	-15.95	-15.97	-15.97	-15.98	-15.98	-15.98	Measured Value (mV)

0.55 INTERCEPT (mV)    1575  
 SLOPE (mV/dB)            26.23  
 LIMITED IF OUTPUT (dBm)

-122	-6	133	265	386	533	656	780	928	1043	1175	1323	1441	1588	1696	Measured Value (mV)
8	-7	1	1	-9	7	-1	-8	9	-7	-7	10	-2	13	-10	Error (mV)
-16.30	-16.16	-16.09	-16.01	-16.95	-15.96	-16.00	-16.00	-16.01	-16.02	-16.03	-16.03	-16.03	-16.04	-16.07	Measured Value (mV)

0.80 INTERCEPT (mV)    1480  
 SLOPE (mV/dB)            24.56  
 LIMITED IF OUTPUT (dBm)

-97	14	137	247	355	494	613	731	871	981	1106	1245	1358	1499	1601	Measured Value (mV)
19	7	7	-5	-20	-4	-8	-12	4	-9	-6	10	1	19	-2	Error (mV)
-16.22	-16.11	-16.07	-16.05	-16.99	-15.93	-15.99	-16.01	-16.03	-16.04	-16.04	-16.03	-16.03	-16.05	-16.09	Measured Value (mV)

LINEARITY(-60 TO 0dBm)    ± 0.82  
 LINEARITY(-65 TO +5dBm)   ± 0.82  
 FREQUENCY FLATNESS        ± 3.31

TSS                            25C  
 -65dBm MAX                -69 dBm

OUTPUT VOLTAGE            25C  
 2.7V MAX                    2.39V

INPUT VSWR                 2:1 MAX @ 25C            1.15:1

IF OUTPUT VSWR            2:1 MAX @ 25C            1.37:1

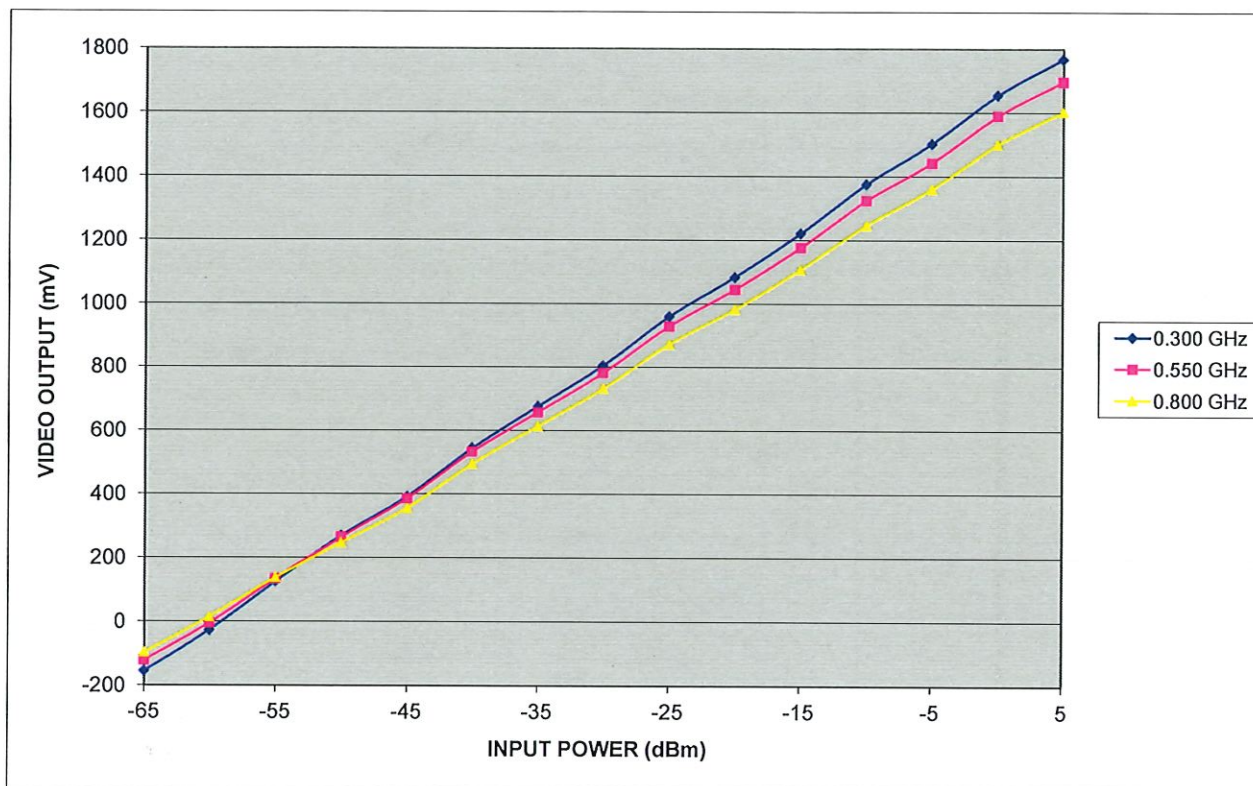
VIDEO RISE TIME            25 nS MAX @ 25C            20 nS

VIDEO FALL TIME            80 nS MAX @ 25C            30 nS

PROPERGATION DELAY       40 nS MAX @ 25C            14 nS

+5 V @ 70 mA MAX           31 mA

-5.2 V @ 200 mA MAX       117 mA



LIMITED IF OUTPUT MAX       -15.93 dBm  
 LIMITED IF OUTPUT MIN       -16.35 dBm  
 LIMITED IF FLATNESS         ± 0.21 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C

MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4305

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Frequency

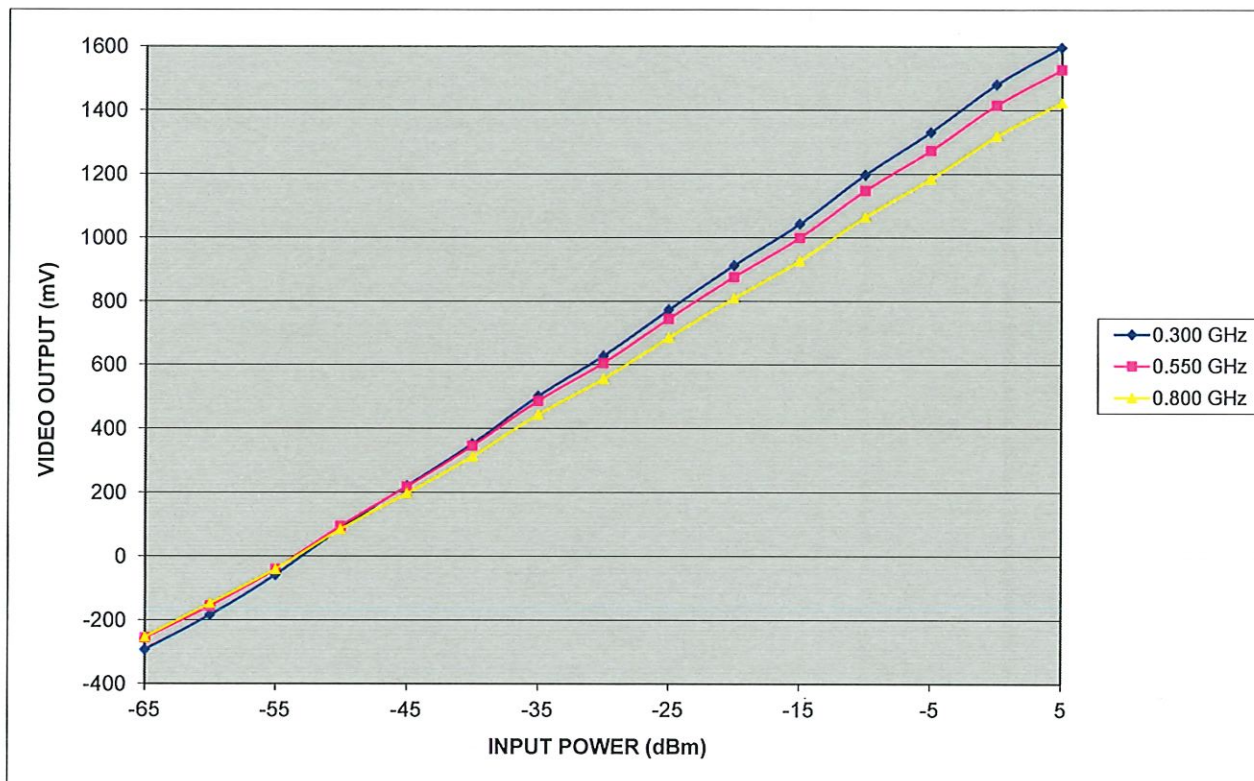
0.30 INTERCEPT (mV) 1463  
SLOPE (mV/dB) 27.47  
LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1397  
SLOPE (mV/dB) 25.97  
LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1299  
SLOPE (mV/dB) 24.29  
LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.76  
LINEARITY(-65 TO +5dBm) ± 1.31  
FREQUENCY FLATNESS ± 3.46

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-293	-185	-59	88	220	352	502	627	772	912	1042	1197	1330	1480	1596	Measured Value (mV)
0.30 Error (mV)	30	1	-11	-2	-7	-12	0	-12	-4	-1	-9	9	5	17	-4	Error (mV)
0.30 Measured Value (mV)	-16.88	-16.34	-16.12	-16.01	-15.94	-15.89	-15.86	-15.85	-15.84	-15.84	-15.85	-15.86	-15.86	-15.86	-15.86	Measured Value (mV)
0.55 Measured Value (mV)	-257	-157	-42	94	217	345	487	605	745	876	999	1147	1272	1415	1526	Measured Value (mV)
0.55 Error (mV)	34	4	-11	-4	-12	-13	-2	-13	-3	-2	-9	10	5	18	-1	Error (mV)
0.55 Measured Value (mV)	-16.69	-16.33	-16.13	-16.02	-15.94	-15.90	-15.89	-15.90	-15.92	-15.93	-15.94	-15.94	-15.95	-15.96	-16.00	Measured Value (mV)
0.80 Measured Value (mV)	-254	-148	-42	85	196	312	443	555	685	809	926	1064	1183	1318	1423	Measured Value (mV)
0.80 Error (mV)	25	10	-5	0	-10	-16	-5	-16	-7	-4	-9	8	6	19	3	Error (mV)
0.80 Measured Value (mV)	-16.63	-16.24	-16.08	-15.99	-15.96	-15.95	-15.95	-15.96	-15.97	-15.97	-15.97	-15.98	-15.98	-16.00	-16.04	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.84 dBm  
LIMITED IF OUTPUT MIN -16.88 dBm  
LIMITED IF FLATNESS ± 0.52 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK    OPTION : RKS-7LW4233-003    SERIAL No. :PL4305  
 TESTED BY: H. HAHN  
 DATE: 4/AUG/2008



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Frequency

0.30 INTERCEPT (mV)    1438  
 SLOPE (mV/dB)    27.49  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV)    1373  
 SLOPE (mV/dB)    26  
 LIMITED IF OUTPUT (dBm)

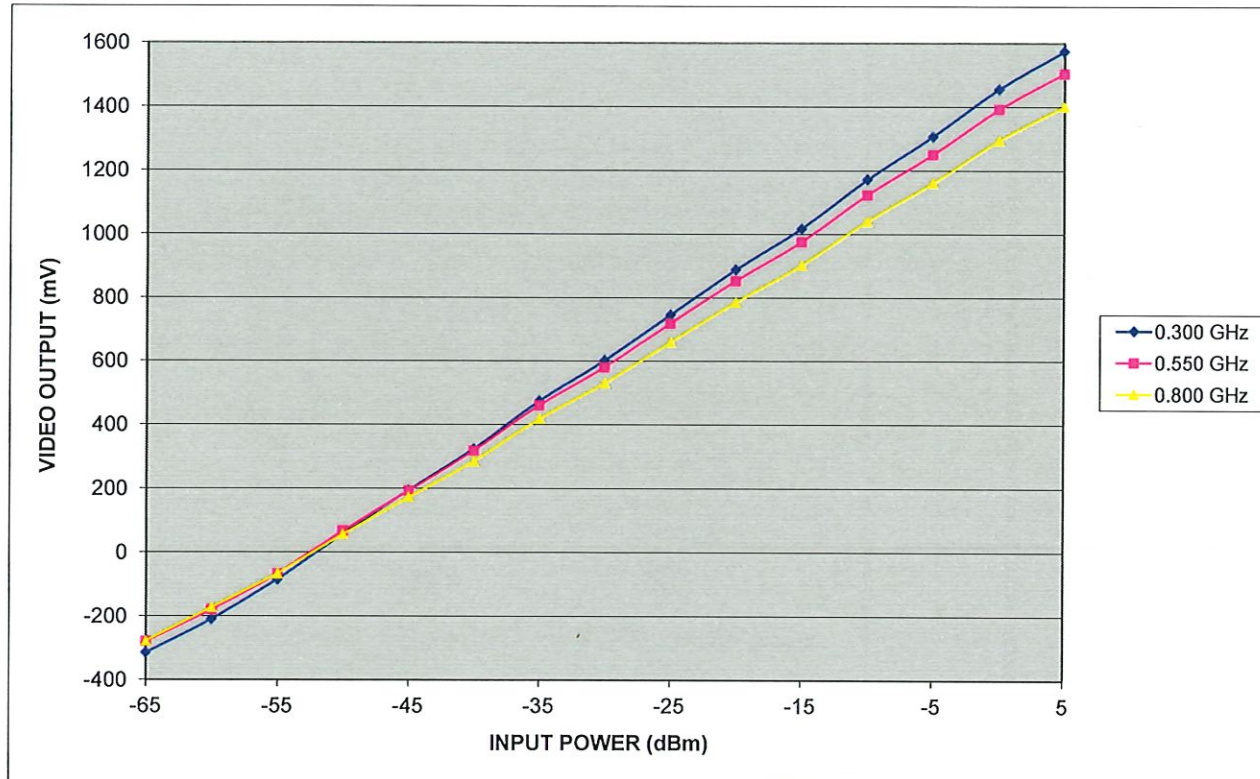
0.80 INTERCEPT (mV)    1275  
 SLOPE (mV/dB)    24.32  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm)    ± 0.76  
 LINEARITY(-65 TO +5dBm)    ± 1.41  
 FREQUENCY FLATNESS    ± 3.47

TSS    95C  
 -65dBm MAX    -69 dBm

OUTPUT VOLTAGE    95C  
 2.7V MAX    2.37V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-316	-210	-86	58	194	324	475	602	745	887	1017	1171	1306	1456	1673	Measured Value (mV)
0.30 Error (mV)	34	1	-11	-5	-6	-14	-1	-11	-6	-1	-9	8	6	18	-2	Error (mV)
0.30 Limited If Output (dBm)	-17.03	-16.43	-16.17	-16.05	-15.97	-15.92	-15.89	-15.87	-15.87	-15.87	-15.87	-15.88	-15.89	-15.89	-15.89	Measured Value (mV)
0.55 Measured Value (mV)	-280	-182	-69	66	192	318	461	580	718	852	974	1122	1249	1391	1503	Measured Value (mV)
0.55 Error (mV)	37	5	-12	-7	-11	-15	-2	-13	-5	-1	-9	9	6	18	0	Error (mV)
0.55 Limited If Output (dBm)	-16.80	-16.40	-16.18	-16.05	-15.97	-15.93	-15.92	-15.93	-15.94	-15.95	-15.96	-15.96	-15.97	-15.98	-16.02	Measured Value (mV)
0.80 Measured Value (mV)	-280	-174	-68	56	172	285	418	530	659	784	901	1039	1159	1293	1399	Measured Value (mV)
0.80 Error (mV)	26	10	-5	-2	-8	-16	-6	-15	-8	-4	-9	8	6	18	3	Error (mV)
0.80 Limited If Output (dBm)	-16.75	-16.31	-16.12	-16.06	-16.01	-16.12	-16.10	-15.98	-15.99	-16.00	-16.00	-16.00	-16.00	-16.01	-16.04	Measured Value (mV)



LIMITED IF OUTPUT MAX    -15.87 dBm  
 LIMITED IF OUTPUT MIN    -17.03 dBm  
 LIMITED IF FLATNESS    ± 0.58 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL NO.: PL4306  
 TESTED BY: H. HAHN  
 DATE: 6/AUG/2008



PLANAR MONOLITHICS INDUSTRIES  
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RF Input Power (dbm)      -65      -60      -55      -50      -45      -40      -35      -30      -25      -20      -15      -10      -5      0      5

Measured Value (mV)	35	214	343	601	651	819	937	1090	1237	1355	1508	1659	1781	1942	2060
Error (mV)	-33	2	-12	1	7	32	6	15	18	-9	1	7	-14	3	-23
Measured Value (mV)	58	200	351	495	659	796	913	1067	1202	1314	1464	1605	1719	1875	1986
Error (mV)	-26	-21	-8	-1	26	26	4	20	18	-9	3	7	-16	2	-26
Measured Value (mV)	76	224	366	527	666	781	881	1020	1147	1267	1400	1533	1646	1792	1893
Error (mV)	-38	-19	-6	27	37	24	-4	6	5	-14	1	5	-10	8	-20
Measured Value (mV)	-16.60	-16.69	-16.61	-16.69	-16.69	-16.84	-16.80	-16.76	-16.82	-16.86	-16.86	-16.86	-16.86	-16.87	-16.89
Measured Value (mV)	-16.60	-16.69	-16.66	-16.66	-16.84	-16.84	-16.85	-16.80	-16.84	-16.80	-16.78	-16.78	-16.78	-16.81	-16.88

0.30 INTERCEPT (mV)      1939  
 SLOPE (mV/DB)      28.79  
 LIMITED IF OUTPUT (dbm)

0.65 INTERCEPT (mV)      1873  
 SLOPE (mV/DB)      27.55  
 LIMITED IF OUTPUT (dbm)

0.80 INTERCEPT (mV)      1785  
 SLOPE (mV/DB)      26.7  
 LIMITED IF OUTPUT (dbm)  
 LINEARITY(-60 TO 0dbm)      ± 1.43  
 LINEARITY(-65 TO +6dbm)      ± 1.49  
 FREQUENCY FLATNESS      ± 3.33

TSS  
 -54C  
 -66dbm MAX

OUTPUT VOLTAGE  
 -54C  
 2.7V MAX

LIMITED IF OUTPUT MAX  
 LIMITED IF OUTPUT MIN  
 LIMITED IF FLATNESS

-15.56 dbm  
 -15.92 dbm  
 ± 0.18 dbm

