

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4341
 TESTED BY: H. HAHN
 DATE: 11/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1609
 SLOPE (mV/dB) 27.79
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1547
 SLOPE (mV/dB) 26.4
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1452
 SLOPE (mV/dB) 24.69
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.77
 LINEARITY(-65 TO +5dBm) ± 0.77
 FREQUENCY FLATNESS ± 3.23

TSS 25C
 -65dBm MAX -67 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.45V

INPUT VSWR
 2:1 MAX @ 25C 1.11:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.32:1

VIDEO RISE TIME
 25 nS MAX @ 25C 22 nS

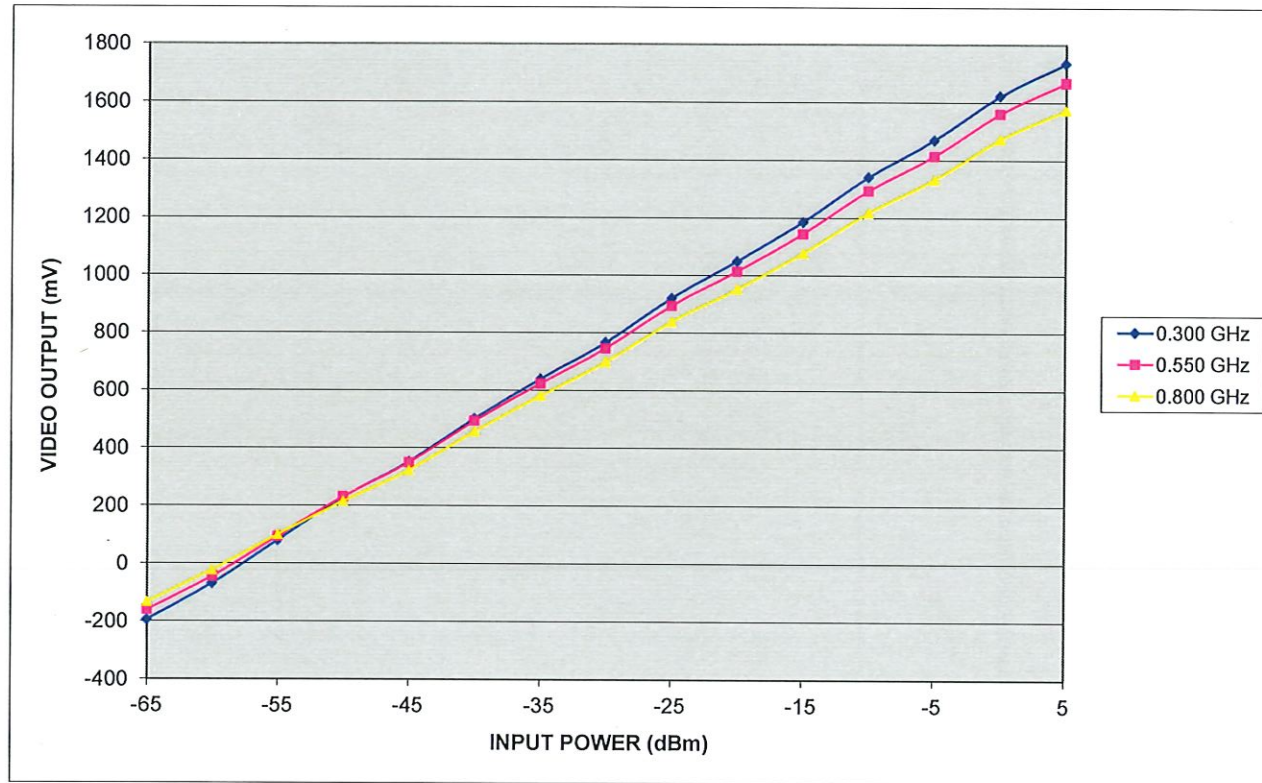
VIDEO FALL TIME
 80 nS MAX @ 25C 46 nS

PROPAGATION DELAY
 40 nS MAX @ 25C 14 nS

+5 V @ 70 mA MAX 31 mA

-5.2 V @ 200 mA MAX 118 mA

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-194	-69	81	230	352	502	640	766	920	1049	1185	1341	1469	1622	1734	Measured Value (mV)
0.30 Error (mV)	3	-10	0	10	-6	5	3	-9	6	-4	-7	10	-1	14	-14	Error (mV)
0.30 Limited IF Output (dBm)	-16.60	-16.30	-16.22	-16.17	-16.13	-16.10	-16.08	-16.07	-16.07	-16.07	-16.08	-16.09	-16.09	-16.10	-16.11	Measured Value (mV)
0.55 Measured Value (mV)	-161	-45	94	232	350	494	623	746	894	1013	1144	1293	1413	1561	1667	Measured Value (mV)
0.55 Error (mV)	9	-7	0	5	-9	3	1	-9	7	-5	-7	10	-1	14	-11	Error (mV)
0.55 Limited IF Output (dBm)	-16.51	-16.32	-16.23	-16.15	-16.09	-16.08	-16.12	-16.13	-16.13	-16.14	-16.14	-16.14	-16.14	-16.15	-16.18	Measured Value (mV)
0.80 Measured Value (mV)	-134	-23	99	215	322	457	580	697	837	951	1075	1215	1330	1471	1572	Measured Value (mV)
0.80 Error (mV)	19	7	6	-2	-19	-7	-8	-14	3	-7	-6	11	2	19	-3	Error (mV)
0.80 Limited IF Output (dBm)	-16.43	-16.27	-16.23	-16.22	-16.18	-16.11	-16.14	-16.17	-16.18	-16.19	-16.19	-16.19	-16.19	-16.20	-16.25	Measured Value (mV)



LIMITED IF OUTPUT MAX -16.07 dBm
 LIMITED IF OUTPUT MIN -16.60 dBm
 LIMITED IF FLATNESS ± 0.27 dBm

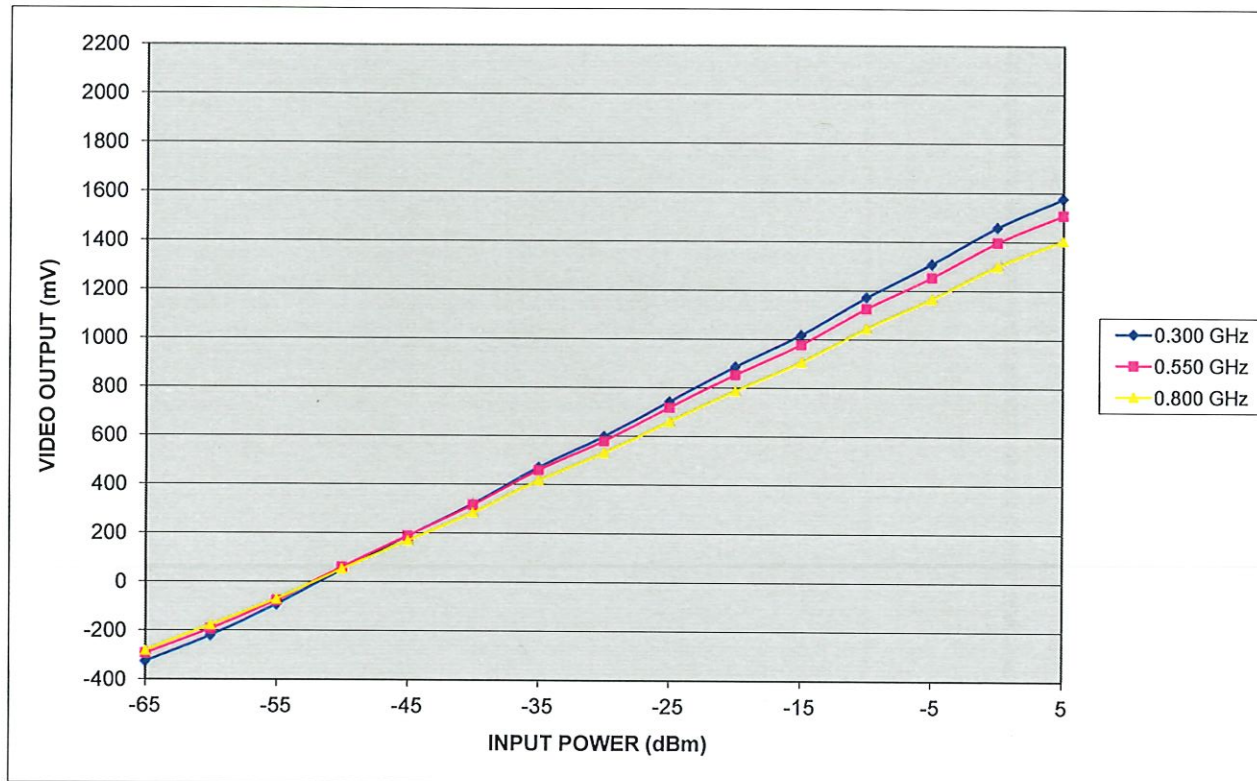
LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4341
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	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)	
0.30 INTERCEPT (mV)	1440																Measured Value (mV)
SLOPE (mV/dB)	27.69																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.55 INTERCEPT (mV)	1379																Measured Value (mV)
SLOPE (mV/dB)	26.27																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
0.80 INTERCEPT (mV)	1279																Measured Value (mV)
SLOPE (mV/dB)	24.47																Error (mV)
LIMITED IF OUTPUT (dBm)																	Measured Value (mV)
LINEARITY(-60 TO 0dBm)																	± 0.79
LINEARITY(-65 TO +5dBm)																	± 1.32
FREQUENCY FLATNESS																	± 3.42



LIMITED IF OUTPUT MAX -15.80 dBm
 LIMITED IF OUTPUT MIN -16.96 dBm
 LIMITED IF FLATNESS ± 0.58 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4341
 TESTED BY: H. HAHN
 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1419
 SLOPE (mV/dB) 27.72
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1357
 SLOPE (mV/dB) 26.29
 LIMITED IF OUTPUT (dBm)

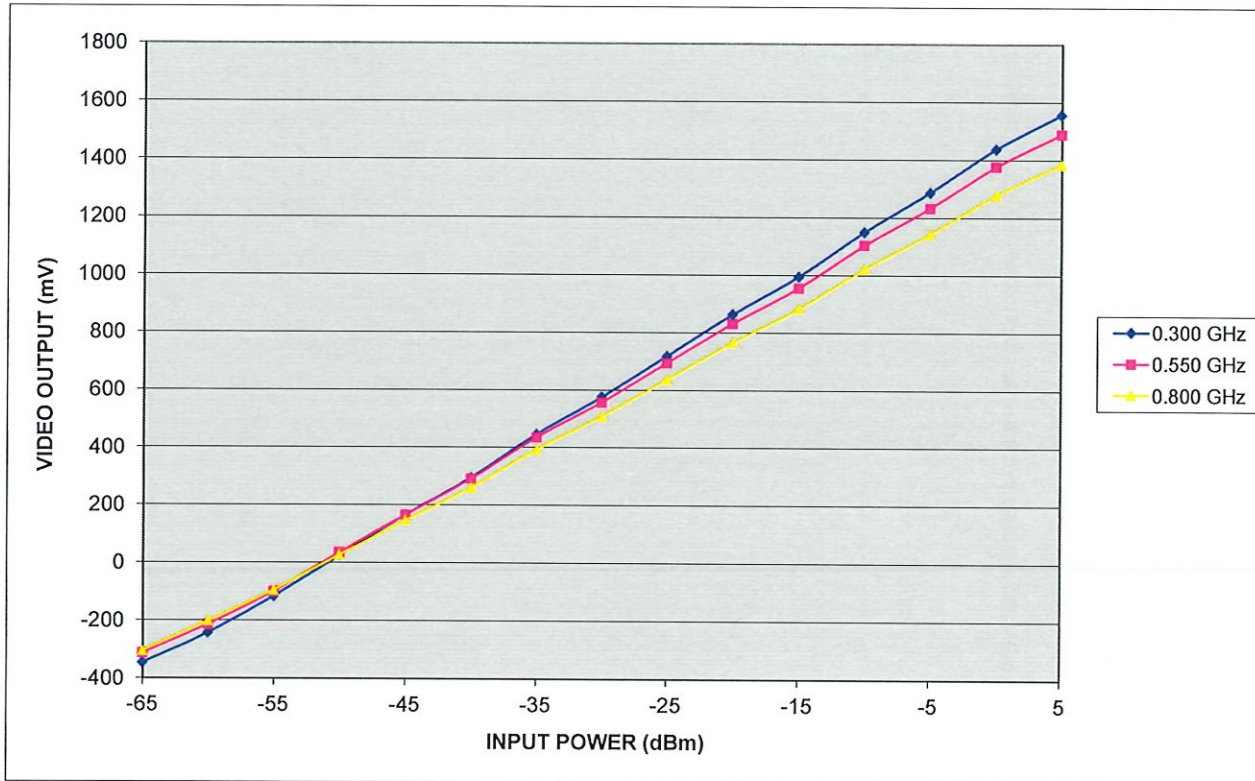
0.80 INTERCEPT (mV) 1257
 SLOPE (mV/dB) 24.51
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.78
 LINEARITY(-65 TO +5dBm) ± 1.42
 FREQUENCY FLATNESS ± 3.45

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-346	-243	-117	25	166	294	446	576	718	863	994	1149	1287	1437	1556	
0.30 Error (mV)	37	1	-11	-8	-6	-16	-3	-11	-8	-1	-8	8	7	19	-1	
0.30 Limited IF Output (dBm)	-17.28	-16.60	-16.30	-16.17	-16.09	-16.04	-16.01	-15.99	-15.99	-15.99	-15.99	-16.00	-16.00	-16.00	-16.01	
0.55 Measured Value (mV)	-314	-214	-100	35	165	291	435	557	693	831	955	1103	1232	1376	1488	
0.55 Error (mV)	37	5	-12	-8	-9	-15	-3	-12	-7	-1	-9	9	6	19	0	
0.55 Limited IF Output (dBm)	-17.03	-16.56	-16.32	-16.18	-16.09	-16.05	-16.04	-16.04	-16.05	-16.06	-16.06	-16.07	-16.07	-16.08	-16.10	
0.80 Measured Value (mV)	-307	-203	-96	27	146	259	392	507	635	763	881	1020	1142	1276	1383	
0.80 Error (mV)	30	11	-5	-5	-8	-18	-7	-15	-9	-3	-9	8	7	19	4	
0.80 Limited IF Output (dBm)	-16.93	-16.46	-16.27	-16.17	-16.13	-16.12	-16.12	-16.13	-16.13	-16.14	-16.14	-16.14	-16.15	-16.16	-16.19	

TSS 95C
 -65dBm MAX -65 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.35V



LIMITED IF OUTPUT MAX -15.99 dBm
 LIMITED IF OUTPUT MIN -17.28 dBm
 LIMITED IF FLATNESS ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4341
 TESTED BY: H. HAHN
 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1886
 SLOPE (mV/dB) 28.95
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1823
 SLOPE (mV/dB) 27.66
 LIMITED IF OUTPUT (dBm)

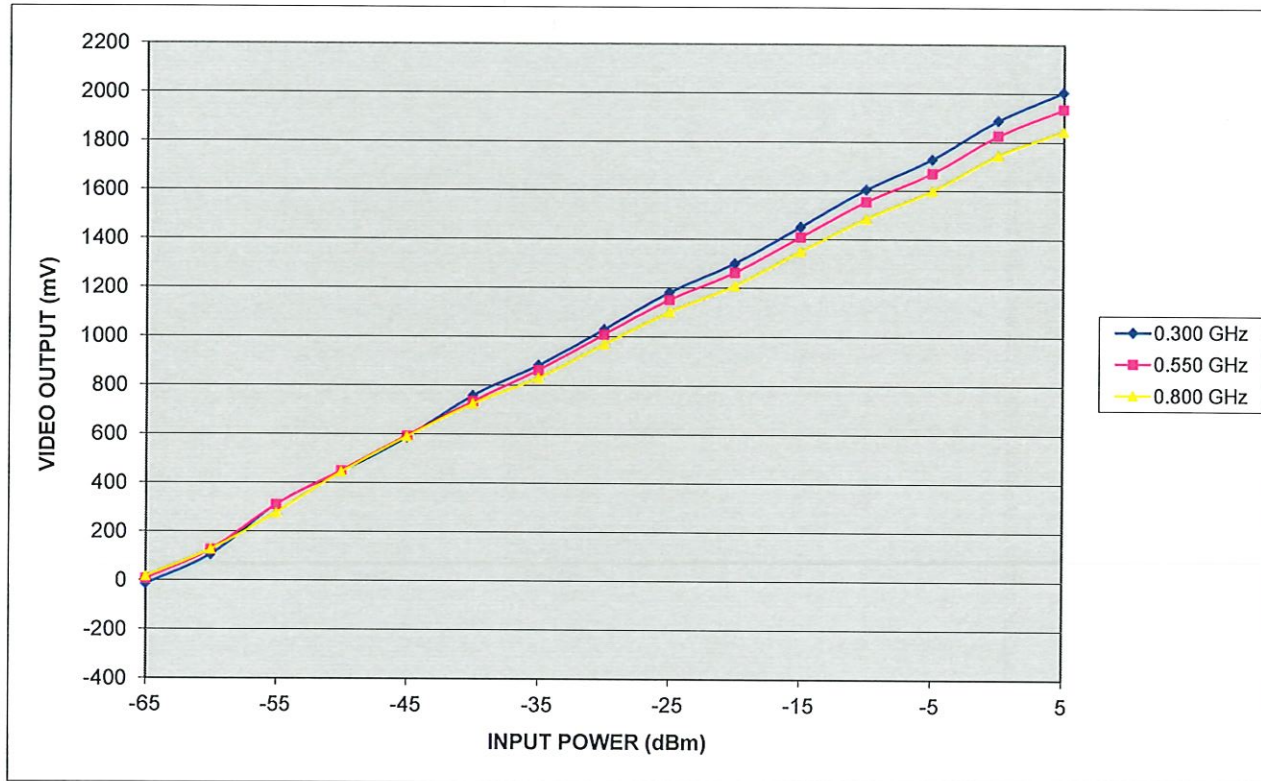
0.80 INTERCEPT (mV) 1741
 SLOPE (mV/dB) 26.27
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.49
 LINEARITY(-65 TO +5dBm) ± 1.49
 FREQUENCY FLATNESS ± 3.23

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-14	106	309	445	587	758	883	1029	1182	1300	1451	1604	1728	1888	2004	
0.30 Error (mV)	-18	-43	16	7	4	30	10	12	20	-6	-1	8	-13	2	-26	
0.30 Limited IF Output (dBm)	-15.89	-15.83	-15.85	-15.92	-15.96	-15.99	-16.03	-15.99	-15.99	-16.02	-16.03	-16.04	-16.05	-16.05	-16.05	
0.55 Measured Value (mV)	6	125	309	448	592	735	863	1009	1151	1263	1410	1554	1670	1825	1934	
0.55 Error (mV)	-18	-38	8	8	14	18	8	16	20	-7	2	8	-14	3	-27	
0.55 Limited IF Output (dBm)	-15.83	-15.78	-15.77	-15.83	-15.91	-15.94	-15.86	-15.93	-15.97	-15.99	-16.00	-15.99	-15.99	-15.99	-16.00	
0.80 Measured Value (mV)	15	126	276	444	589	725	830	968	1100	1208	1349	1484	1598	1743	1843	
0.80 Error (mV)	-19	-39	-20	16	30	34	9	15	16	-8	1	5	-12	2	-30	
0.80 Limited IF Output (dBm)	-15.82	-15.80	-15.79	-15.94	-15.92	-15.98	-15.89	-15.87	-15.91	-15.93	-15.93	-15.92	-15.93	-15.97	-16.05	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.64V



LIMITED IF OUTPUT MAX -15.77 dBm
 LIMITED IF OUTPUT MIN -16.05 dBm
 LIMITED IF FLATNESS ± 0.14 dBm