

LOG TRANSFER WITH FREQUENCY @ 25 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4339  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



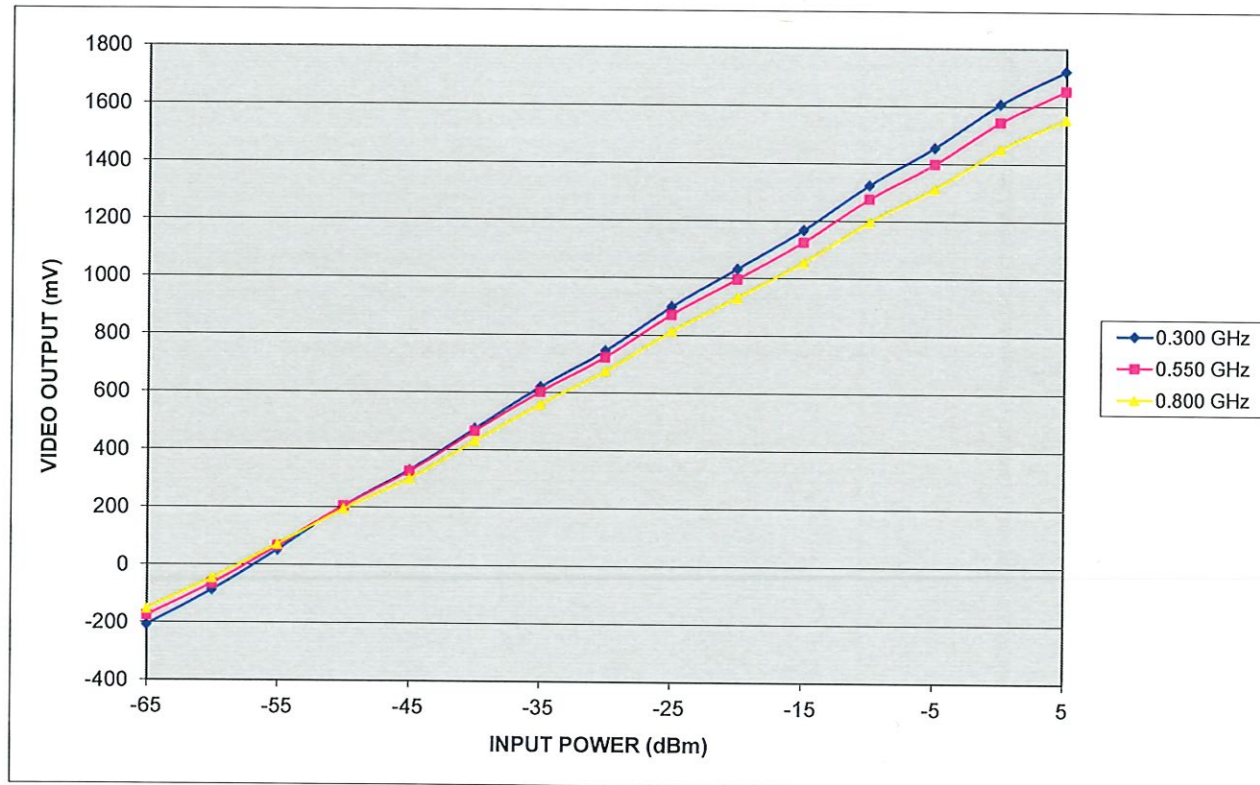
PLANAR MONOLITHICS INDUSTRIES  
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 URL: WWW.PLANARMONOLITHICS.COM  
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 ISO 9001:2000 CERTIFIED

Frequency

0.30 INTERCEPT (mV) 1593  
 SLOPE (mV/dB) 27.9  
 LIMITED IF OUTPUT (dBm)  
 0.55 INTERCEPT (mV) 1630  
 SLOPE (mV/dB) 26.51  
 LIMITED IF OUTPUT (dBm)  
 0.80 INTERCEPT (mV) 1432  
 SLOPE (mV/dB) 24.75  
 LIMITED IF OUTPUT (dBm)  
 LINEARITY(-60 TO 0dBm) ± 0.74  
 LINEARITY(-65 TO +5dBm) ± 0.95  
 FREQUENCY FLATNESS ± 3.35

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-208	-87	63	206	329	475	620	746	900	1033	1168	1325	1455	1608	1721	
0.30 Error (mV)	12	-6	-6	8	-8	-2	3	-10	4	-3	-7	10	1	14	-12	
0.30 Limited IF Output (dBm)	-16.68	-16.31	-16.20	-16.12	-16.08	-16.04	-16.03	-16.02	-16.02	-16.02	-16.03	-16.04	-16.04	-16.04	-16.05	
0.55 Measured Value (mV)	-176	-65	66	206	326	467	603	724	872	996	1126	1276	1398	1544	1653	
0.55 Error (mV)	18	-4	-6	2	-11	-2	1	-10	5	-3	-7	11	0	15	-10	
0.55 Limited IF Output (dBm)	-16.58	-16.33	-16.20	-16.11	-16.04	-16.03	-16.07	-16.08	-16.08	-16.09	-16.10	-16.09	-16.09	-16.10	-16.12	
0.80 Measured Value (mV)	-154	-47	71	195	300	431	559	674	814	931	1054	1195	1311	1450	1554	
0.80 Error (mV)	23	7	0	1	-18	-11	-6	-15	1	-6	-6	11	3	18	-2	
0.80 Limited IF Output (dBm)	-16.47	-16.26	-16.19	-16.16	-16.13	-16.09	-16.11	-16.13	-16.14	-16.15	-16.15	-16.15	-16.15	-16.17	-16.20	

TSS 25C  
 -65dBm MAX -67 dBm  
 OUTPUT VOLTAGE 25C  
 2.7V MAX 2.46V  
 INPUT VSWR  
 2:1 MAX @ 25C 1.13:1  
 IF OUTPUT VSWR  
 2:1 MAX @ 25C 1.64:1  
 VIDEO RISE TIME  
 25 nS MAX @ 25C 18 nS  
 VIDEO FALL TIME  
 80 nS MAX @ 25C 46 nS  
 PROPERGATION DELAY  
 40 nS MAX @ 25C 16 nS  
 +5 V @ 70 mA MAX 31 mA  
 -5.2 V @ 200 mA MAX 118 mA



LIMITED IF OUTPUT MAX -16.02 dBm  
 LIMITED IF OUTPUT MIN -16.68 dBm  
 LIMITED IF FLATNESS ± 0.33 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4339  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1886  
 SLOPE (mV/dB) 29.23  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1821  
 SLOPE (mV/dB) 27.89  
 LIMITED IF OUTPUT (dBm)

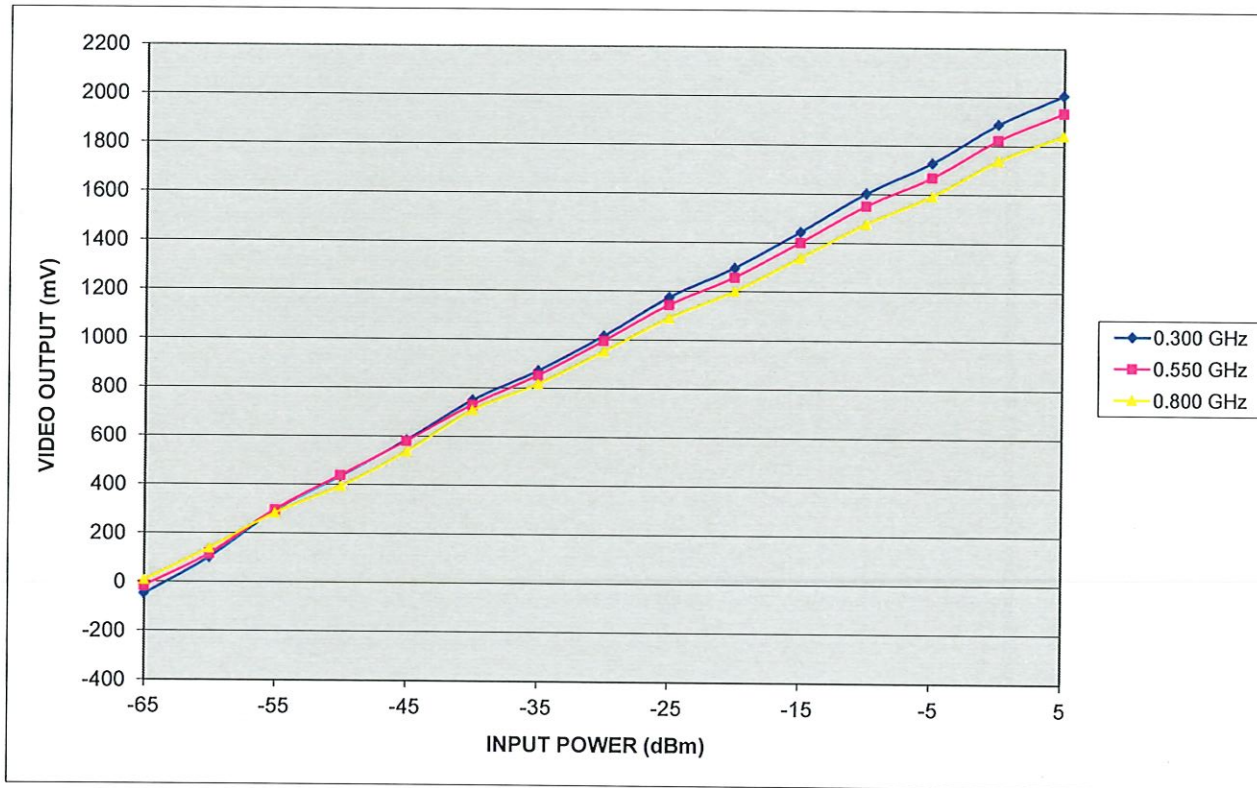
0.80 INTERCEPT (mV) 1733  
 SLOPE (mV/dB) 26.43  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.21  
 LINEARITY(-65 TO +5dBm) ± 1.21  
 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)	-48	100	293	435	584	750	871	1015	1175	1296	1445	1602	1728	1887	2006	
0.30 Error (mV)	-34	-32	14	11	13	33	8	6	19	-6	-3	9	-12	1	-26	
0.30 Measured Value (mV)	-15.99	-15.87	-15.92	-15.99	-16.00	-15.99	-16.03	-16.01	-16.01	-16.03	-16.04	-16.04	-16.05	-16.05	-16.05	
0.55 Measured Value (mV)	-18	114	295	438	580	730	852	995	1144	1257	1402	1551	1668	1823	1934	
0.55 Error (mV)	-26	-34	8	11	14	25	7	10	20	-6	-1	9	-13	2	-26	
0.55 Measured Value (mV)	-15.90	-15.84	-15.83	-15.88	-15.98	-16.00	-15.95	-15.95	-15.98	-15.99	-15.99	-15.99	-15.98	-15.99	-16.01	
0.80 Measured Value (mV)	6	136	282	392	536	707	816	950	1089	1199	1337	1477	1592	1738	1841	
0.80 Error (mV)	-9	-11	3	-19	-7	32	8	10	17	-5	1	9	-9	5	-24	
0.80 Measured Value (mV)	-15.86	-15.80	-15.80	-15.87	-15.85	-15.95	-15.94	-15.91	-15.94	-15.96	-15.95	-15.95	-15.95	-15.98	-16.05	

TSS -54C  
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C  
 2.7V MAX 2.62V



LIMITED IF OUTPUT MAX -15.80 dBm  
 LIMITED IF OUTPUT MIN -16.05 dBm  
 LIMITED IF FLATNESS ± 0.13 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4339  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



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Frequency

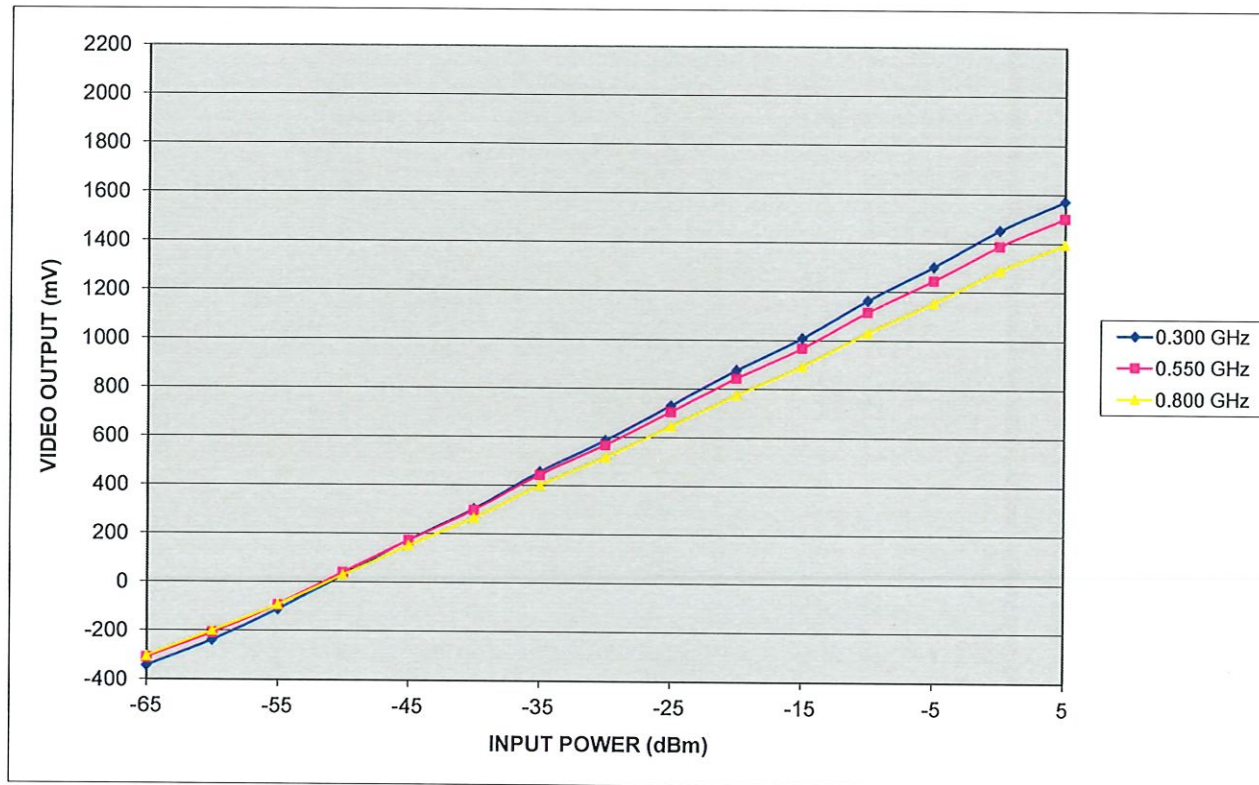
0.30 INTERCEPT (mV) 1434  
 SLOPE (mV/dB) 27.9  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1371  
 SLOPE (mV/dB) 26.43  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1269  
 SLOPE (mV/dB) 24.68  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.71  
 LINEARITY(-65 TO +5dBm) ± 1.40  
 FREQUENCY FLATNESS ± 3.52

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-343	-238	-111	30	173	302	456	587	730	877	1008	1164	1302	1452	1571	
0.30 Error (mV)	37	2	-11	-9	-6	-16	-2	-10	-7	1	-8	8	7	18	-3	
0.30 Limited IF Output (dBm)	-17.13	-16.44	-16.15	-16.02	-15.94	-15.89	-15.85	-15.84	-15.84	-15.84	-15.84	-15.85	-15.85	-15.86	-15.86	
0.55 Measured Value (mV)	-310	-209	-95	40	172	298	443	567	704	843	967	1116	1245	1388	1502	
0.55 Error (mV)	37	6	-12	-9	-10	-16	-2	-11	-6	0	-8	9	6	17	-1	
0.55 Limited IF Output (dBm)	-16.88	-16.40	-16.16	-16.02	-15.94	-15.90	-15.89	-15.90	-15.91	-15.91	-15.92	-15.92	-15.92	-15.93	-15.96	
0.80 Measured Value (mV)	-306	-201	-94	29	151	265	399	516	644	774	891	1030	1153	1287	1395	
0.80 Error (mV)	29	10	-6	-6	-7	-17	-6	-13	-8	-2	-8	8	7	18	2	
0.80 Limited IF Output (dBm)	-16.80	-16.33	-16.12	-16.01	-15.97	-15.97	-15.97	-15.98	-15.99	-15.99	-15.99	-15.99	-16.00	-16.01	-16.04	



LIMITED IF OUTPUT MAX -16.84 dBm  
 LIMITED IF OUTPUT MIN -17.13 dBm  
 LIMITED IF FLATNESS ± 0.65 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C  
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4339  
 TESTED BY: H. HAHN  
 DATE: 11/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1413  
 SLOPE (mV/dB) 27.94  
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1349  
 SLOPE (mV/dB) 26.46  
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1248  
 SLOPE (mV/dB) 24.74  
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.71  
 LINEARITY(-65 TO +5dBm) ± 1.50  
 FREQUENCY FLATNESS ± 3.65

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

-362 -261 -134 5 160 279 431 565 706 855 986 1142 1281 1431 1552 Measured Value (mV)

41 2 -10 -12 -6 -17 -4 -10 -8 1 -8 8 8 18 -1 Error (mV)

-17.25 -16.50 -16.18 -16.03 -15.94 -15.89 -15.86 -15.85 -15.84 -15.84 -15.84 -15.85 -15.85 -15.85 -15.86 Measured Value (mV)

-330 -231 -117 15 149 274 419 545 680 821 945 1093 1224 1367 1482 Measured Value (mV)

40 7 -12 -12 -10 -18 -4 -11 -8 0 -8 9 7 18 0 Error (mV)

-16.97 -16.45 -16.19 -16.04 -15.95 -15.90 -15.90 -15.90 -15.91 -15.91 -15.92 -15.92 -15.92 -15.93 -15.96 Measured Value (mV)

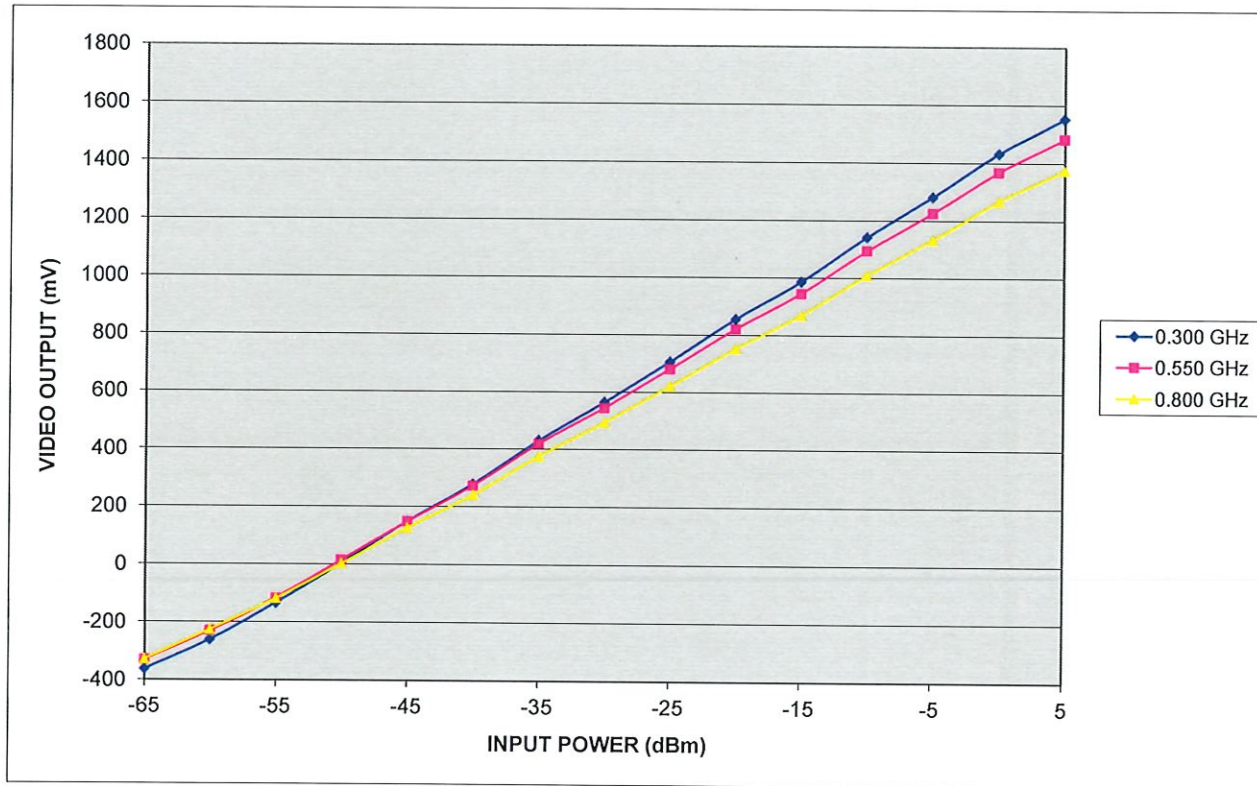
-329 -227 -119 3 127 241 375 493 620 751 869 1008 1131 1265 1374 Measured Value (mV)

31 10 -6 -8 -7 -18 -7 -12 -9 -2 -8 7 7 17 3 Error (mV)

-16.92 -16.39 -16.15 -16.02 -15.98 -15.97 -15.98 -15.99 -15.99 -15.99 -15.99 -15.99 -16.00 -16.01 -16.04 Measured Value (mV)

TSS 95C  
 -65dBm MAX -66 dBm

OUTPUT VOLTAGE 95C  
 2.7V MAX 2.34V



LIMITED IF OUTPUT MAX -15.84 dBm  
 LIMITED IF OUTPUT MIN -17.25 dBm  
 LIMITED IF FLATNESS ± 0.70 dBm