

LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4308
 TESTED BY: H. HAHN
 DATE: 6/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) 1588
 SLOPE (mV/dB) 27.71
 LIMITED IF OUTPUT (dBm)

-202	-81	58	210	333	477	621	746	899	1030	1164	1321	1450	1603	1715	Measured Value (mV)
12	-6	-6	8	-8	-2	3	-10	4	-4	-8	10	1	15	-11	Error (mV)
-16.65	-16.30	-16.20	-16.12	-16.07	-16.03	-16.01	-16.00	-16.00	-16.00	-16.01	-16.02	-16.02	-16.02	-16.03	Measured Value (mV)

0.55 INTERCEPT (mV) 1522
 SLOPE (mV/dB) 26.28
 LIMITED IF OUTPUT (dBm)

-167	-59	71	209	328	469	603	723	870	992	1120	1270	1391	1537	1645	Measured Value (mV)
19	-4	-5	2	-11	-2	0	-10	5	-4	-8	11	1	15	-9	Error (mV)
-16.54	-16.32	-16.19	-16.09	-16.00	-15.99	-16.03	-16.04	-16.05	-16.06	-16.06	-16.06	-16.06	-16.07	-16.10	Measured Value (mV)

0.80 INTERCEPT (mV) 1424
 SLOPE (mV/dB) 24.51
 LIMITED IF OUTPUT (dBm)

-144	-39	76	198	302	432	559	673	811	927	1049	1189	1305	1443	1546	Measured Value (mV)
25	8	0	0	-19	-11	-7	-15	0	-7	-7	11	4	20	-1	Error (mV)
-16.43	-16.22	-16.15	-16.11	-16.07	-16.03	-16.05	-16.08	-16.10	-16.11	-16.11	-16.10	-16.11	-16.12	-16.16	Measured Value (mV)

LINEARITY(-60 TO 0dBm) ± 0.80
 LINEARITY(-65 TO +5dBm) ± 1.03
 FREQUENCY FLATNESS ± 3.38

TSS 25C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 25C
 2.7V MAX 2.42V

INPUT VSWR
 2:1 MAX @ 25C 1.17:1

IF OUTPUT VSWR
 2:1 MAX @ 25C 1.30:1

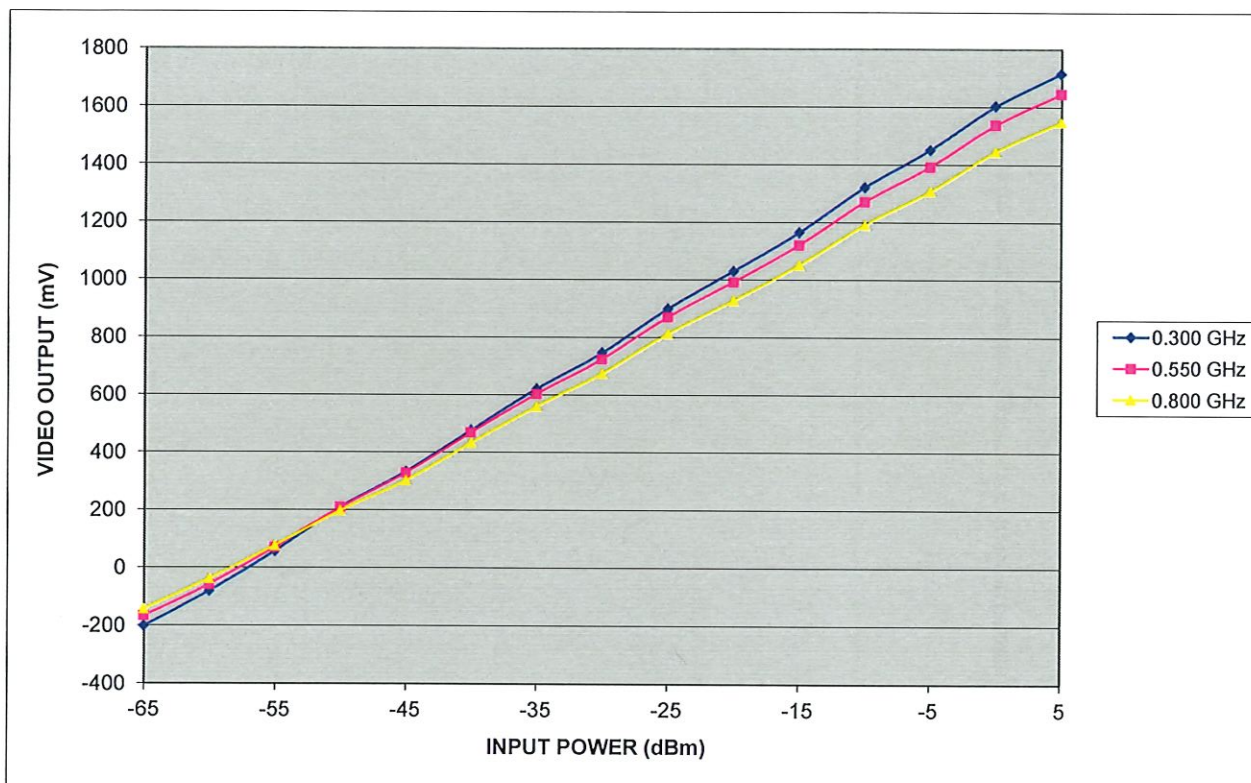
VIDEO RISE TIME
 25 nS MAX @ 25C 20 nS

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 117 mA



LIMITED IF OUTPUT MAX -15.99 dBm
 LIMITED IF OUTPUT MIN -16.65 dBm
 LIMITED IF FLATNESS ± 0.33 dBm

LOG TRANSFER WITH FREQUENCY @ 85 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4308
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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Frequency

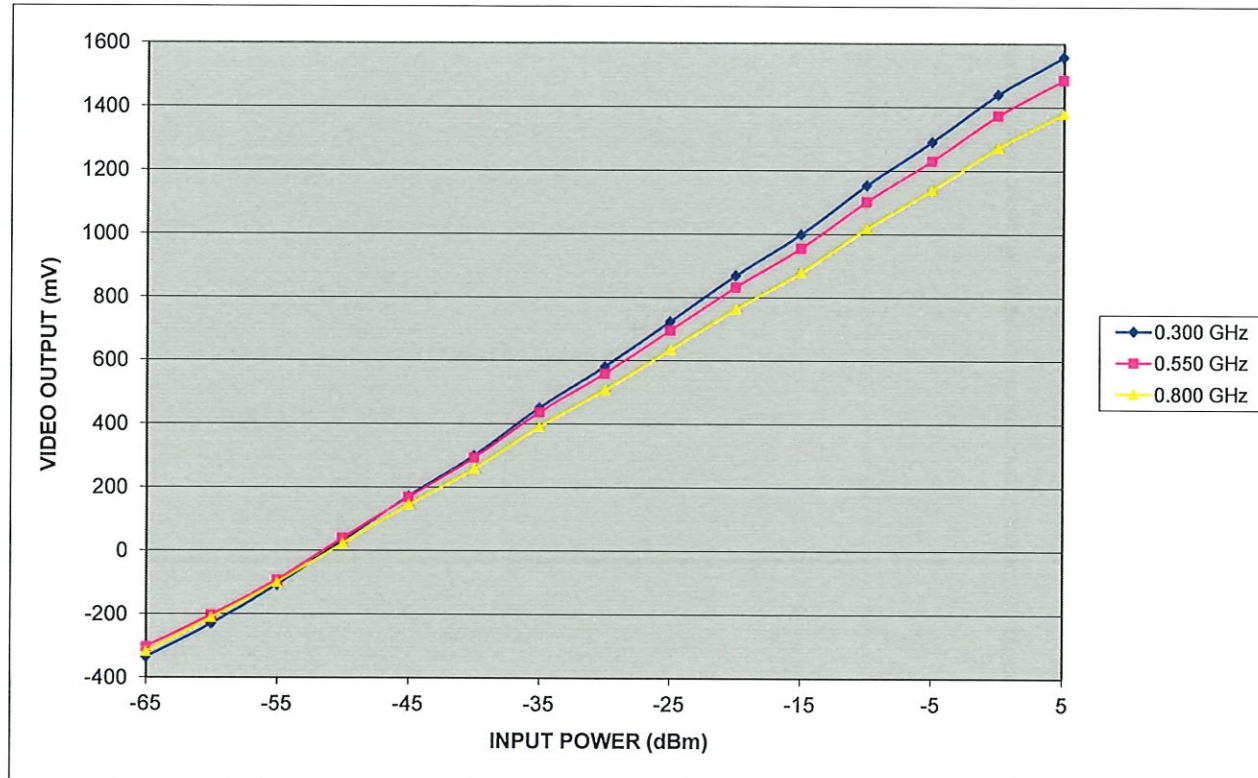
0.30 INTERCEPT (mV) 1421
 SLOPE (mV/dB) 27.59
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1354
 SLOPE (mV/dB) 26.1
 LIMITED IF OUTPUT (dBm)

0.80 INTERCEPT (mV) 1255
 SLOPE (mV/dB) 24.57
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.72
 LINEARITY(-65 TO +5dBm) ± 1.50
 FREQUENCY FLATNESS ± 3.57

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-335	-230	-108	32	172	300	451	581	723	868	998	1163	1290	1440	1557	Measured Value (mV)
0.30 Error (mV)	38	5	-11	-9	-7	-17	-4	-12	-8	0	-8	8	7	19	-1	Error (mV)
0.30 Limited If Output (dBm)	-17.00	-16.36	-16.09	-15.96	-15.88	-15.82	-15.78	-15.77	-15.76	-15.76	-15.77	-15.77	-15.77	-15.77	-15.76	Measured Value (mV)
0.55 Measured Value (mV)	-303	-203	-93	40	169	293	437	559	695	832	954	1103	1231	1373	1485	Measured Value (mV)
0.55 Error (mV)	39	8	-12	-10	-11	-17	-4	-12	-7	-1	-9	9	7	19	0	Error (mV)
0.55 Limited If Output (dBm)	-16.76	-16.33	-16.10	-15.95	-15.86	-15.81	-15.80	-15.81	-15.83	-15.83	-15.84	-15.84	-15.85	-15.86	-15.89	Measured Value (mV)
0.80 Measured Value (mV)	-319	-211	-101	23	145	258	391	507	634	762	878	1017	1139	1272	1379	Measured Value (mV)
0.80 Error (mV)	23	8	-4	-4	-4	-15	-4	-12	-7	-2	-9	7	6	17	0	Error (mV)
0.80 Limited If Output (dBm)	-16.84	-16.29	-16.06	-15.93	-15.88	-15.88	-15.88	-15.90	-15.90	-15.91	-15.91	-15.91	-15.93	-15.95	-15.99	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.76 dBm
 LIMITED IF OUTPUT MIN -17.00 dBm
 LIMITED IF FLATNESS ± 0.62 dBm

LOG TRANSFER WITH FREQUENCY @ 95 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4308
 TESTED BY: H. HAHN
 DATE: 4/AUG/2008



PLANAR MONOLITHICS INDUSTRIES
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Frequency

0.30 INTERCEPT (mV) 1397
 SLOPE (mV/dB) 27.58
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1332
 SLOPE (mV/dB) 26.07
 LIMITED IF OUTPUT (dBm)

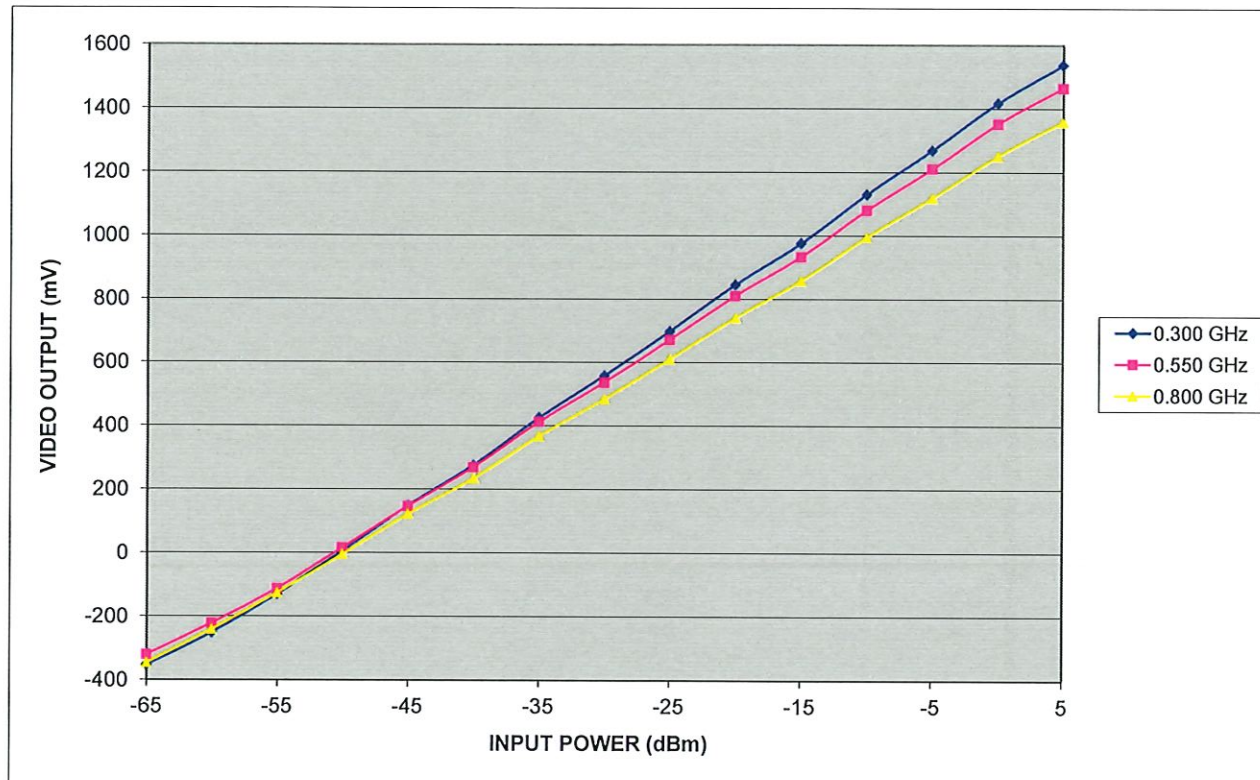
0.80 INTERCEPT (mV) 1234
 SLOPE (mV/dB) 24.67
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.75
 LINEARITY(-65 TO +5dBm) ± 1.61
 FREQUENCY FLATNESS ± 3.59

TSS 95C
 -65dBm MAX -69 dBm

OUTPUT VOLTAGE 95C
 2.7V MAX 2.33V

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.30 Measured Value (mV)	-353	-251	-130	6	148	275	426	558	698	845	975	1129	1268	1417	1536	Measured Value (mV)
0.30 Error (mV)	42	6	-11	-12	-8	-19	-6	-12	-9	0	-8	8	9	20	1	Error (mV)
0.30 Limited If Output (dBm)	-17.15	-16.47	-16.17	-16.03	-15.94	-15.88	-15.83	-15.82	-15.81	-15.81	-15.81	-15.82	-15.82	-15.81	-15.81	Measured Value (mV)
0.55 Measured Value (mV)	-321	-223	-113	16	147	269	413	537	671	809	932	1080	1209	1351	1464	Measured Value (mV)
0.55 Error (mV)	42	10	-11	-12	-11	-19	-6	-13	-9	-1	-9	9	8	20	2	Error (mV)
0.55 Limited If Output (dBm)	-16.88	-16.41	-16.16	-16.01	-15.92	-15.87	-15.86	-15.87	-15.88	-15.88	-15.89	-15.89	-15.90	-15.91	-15.94	Measured Value (mV)
0.80 Measured Value (mV)	-347	-241	-127	-5	121	233	367	484	609	739	855	993	1116	1249	1357	Measured Value (mV)
0.80 Error (mV)	23	5	-4	-5	-2	-14	-4	-10	-8	-1	-8	6	6	16	0	Error (mV)
0.80 Limited If Output (dBm)	-17.07	-16.42	-16.14	-16.00	-15.94	-15.93	-15.94	-15.95	-15.95	-15.96	-15.96	-15.97	-15.98	-16.00	-16.05	Measured Value (mV)



LIMITED IF OUTPUT MAX -15.81 dBm
 LIMITED IF OUTPUT MIN -17.15 dBm
 LIMITED IF FLATNESS ± 0.67 dBm

LOG TRANSFER WITH FREQUENCY @ -54 °C
 MODEL: SDLVAC-0120-70M-YK OPTION : RKS-7LW4233-003 SERIAL No. :PL4308
 TESTED BY: H. HAHN
 DATE: 6/AUG/2008



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Frequency

0.30 INTERCEPT (mV) 1842
 SLOPE (mV/dB) 28.56
 LIMITED IF OUTPUT (dBm)

0.55 INTERCEPT (mV) 1779
 SLOPE (mV/dB) 27.23
 LIMITED IF OUTPUT (dBm)

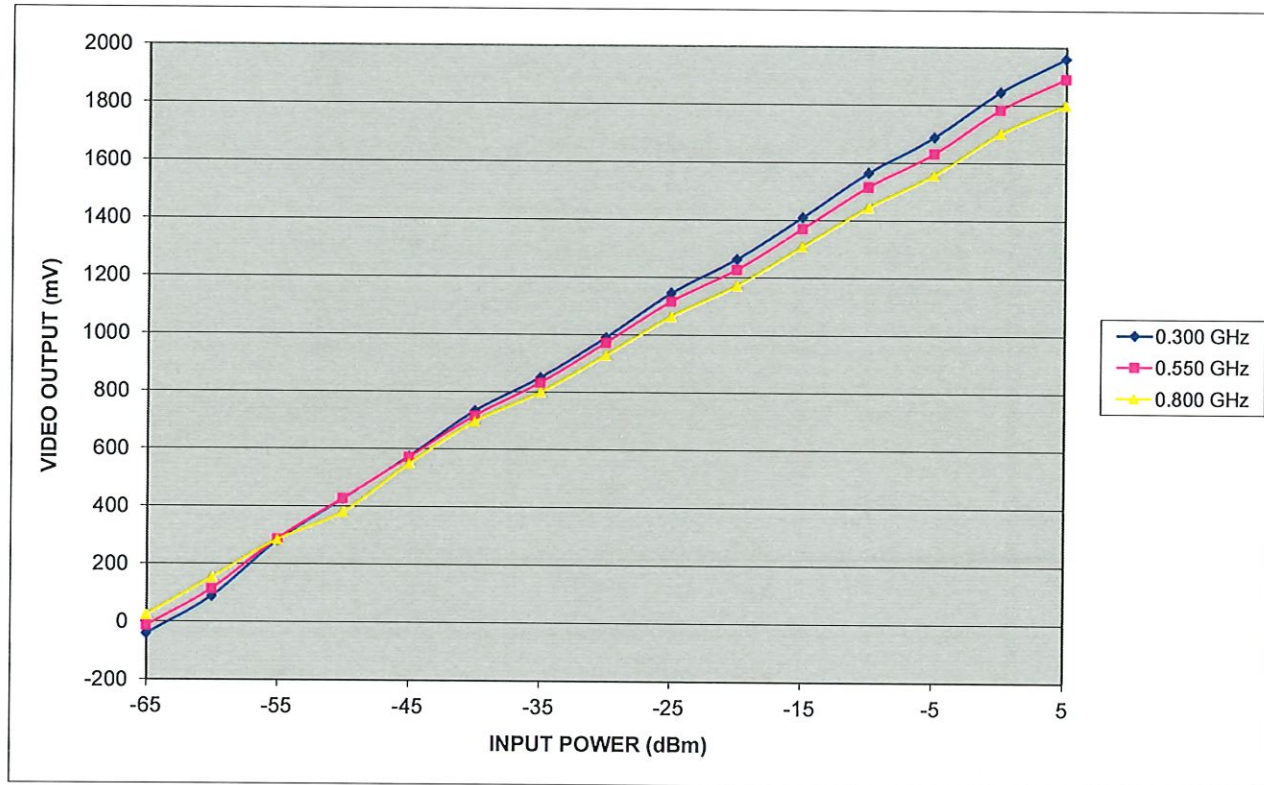
0.80 INTERCEPT (mV) 1690
 SLOPE (mV/dB) 25.57
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.39
 LINEARITY(-65 TO +5dBm) ± 1.39
 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)	-41	89	281	426	574	734	850	990	1145	1263	1409	1564	1688	1845	1960	
0.30 Error (mV)	-26	-40	10	13	17	34	8	5	17	-8	-5	8	-12	3	-25	
0.30 Limited If Output (dBm)	-15.89	-15.83	-16.01	-16.09	-16.06	-16.09	-16.11	-16.09	-16.09	-16.12	-16.14	-16.14	-16.15	-16.15	-16.15	
0.55 Measured Value (mV)	-14	113	286	428	572	717	832	971	1116	1227	1369	1515	1631	1783	1891	
0.55 Error (mV)	-23	-32	5	10	18	26	5	9	17	-8	-2	8	-12	4	-25	
0.55 Limited If Output (dBm)	-15.80	-15.82	-15.87	-15.93	-16.07	-16.06	-15.97	-15.97	-16.02	-16.05	-16.06	-16.05	-16.05	-16.06	-16.07	
0.80 Measured Value (mV)	22	152	284	381	548	696	798	927	1062	1169	1306	1442	1555	1700	1799	
0.80 Error (mV)	-5	-3	1	-31	9	29	3	4	11	-9	-1	8	-7	10	-19	
0.80 Limited If Output (dBm)	-15.79	-15.79	-16.83	-16.90	-15.95	-16.02	-15.99	-15.96	-15.99	-16.01	-16.00	-15.99	-15.99	-16.00	-16.08	

TSS -54C
 -65dBm MAX -66dBm

OUTPUT VOLTAGE -54C
 2.7V MAX 2.56V



LIMITED IF OUTPUT MAX -15.79 dBm
 LIMITED IF OUTPUT MIN -16.15 dBm
 LIMITED IF FLATNESS ± 0.18 dBm