

LOG TRANSFER WITH FREQUENCY @ -40 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703872
 TESTED BY: C. CHADWICK
 DATE: 14/Apr/2007



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
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Frequency

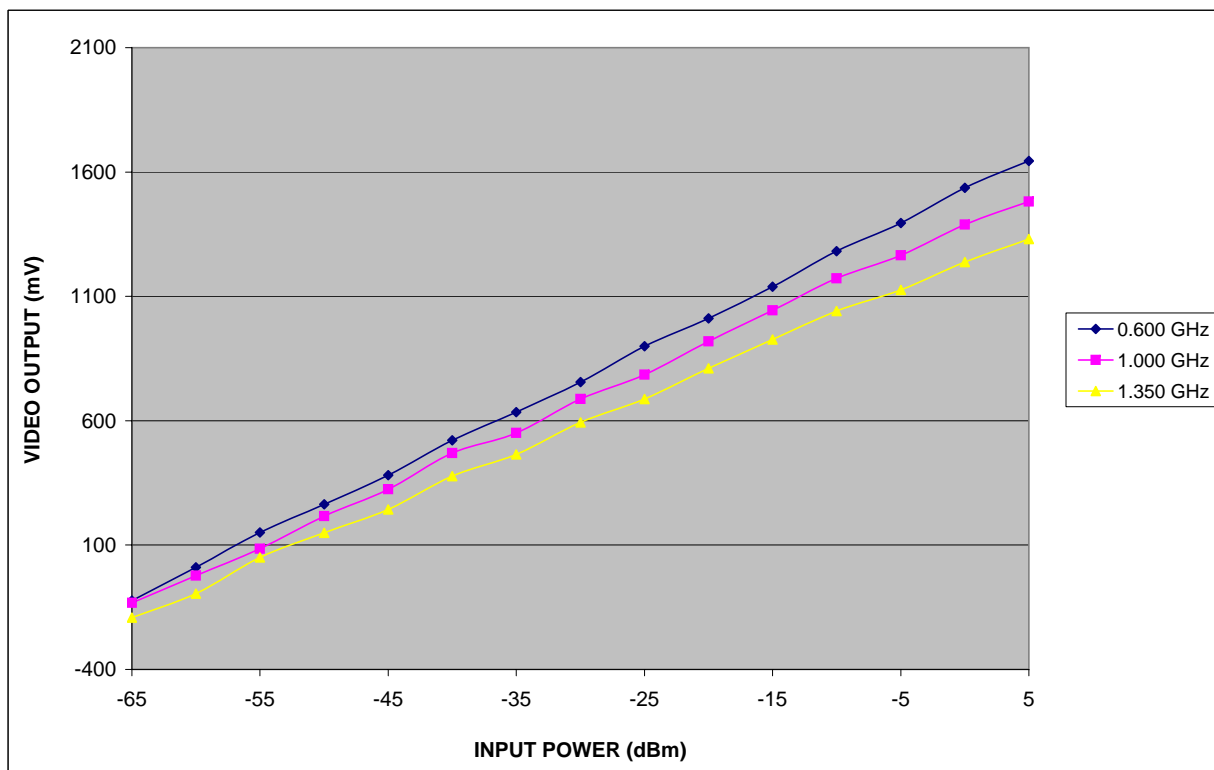
0.60 INTERCEPT (mV) 1524
 SLOPE (mV/dB) 25.25
 LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1384
 SLOPE (mV/dB) 23.41
 LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1242
 SLOPE (mV/dB) 21.96
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.94
 LINEARITY(-65 TO +5dBm) ± 0.95
 FREQUENCY FLATNESS ± 6.28

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60 Measured Value (mV)	-123	11	151	264	381	521	634	756	899	1011	1139	1282	1395	1537	1645	
0.60 Error (mV)	-6	1	15	2	-7	7	-7	-11	6	-8	-7	10	-3	13	-5	
0.60 Measured Value (mV)	-16.31	-16.19	-16.08	-16.00	-15.98	-16.01	-16.05	-16.08	-16.08	-16.08	-16.08	-16.08	-16.08	-16.10	-16.15	
1.00 Measured Value (mV)	-133	-23	85	216	324	470	551	687	785	919	1044	1172	1265	1388	1481	
1.00 Error (mV)	4	-3	-12	2	-7	22	-14	5	-14	3	11	22	-2	4	-21	
1.00 Measured Value (mV)	-16.41	-16.27	-16.29	-16.16	-16.11	-16.12	-16.13	-16.15	-16.17	-16.19	-16.18	-16.17	-16.18	-16.20	-16.24	
1.35 Measured Value (mV)	-192	-95	50	150	243	377	465	593	687	811	926	1041	1126	1238	1331	
1.35 Error (mV)	-7	-20	16	6	-11	13	-9	10	-6	8	13	18	-6	-4	-21	
1.35 Measured Value (mV)	-16.60	-16.57	-16.56	-16.50	-16.44	-16.37	-16.36	-16.41	-16.42	-16.43	-16.43	-16.43	-16.43	-16.42	-16.42	



LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703872
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Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60	INTERCEPT (mV)	1424															Measured Value (mV)
	SLOPE (mV/dB)	25.17															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.29	-16.03	-15.92	-15.79	-15.73	-15.73	-15.74	-15.77	-15.78	-15.79	-15.80	-15.80	-15.80	-15.81	-15.84
0.68	INTERCEPT (mV)	1387															Measured Value (mV)
	SLOPE (mV/dB)	24.49															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.24	-15.99	-15.87	-15.82	-15.81	-15.76	-15.72	-15.68	-15.68	-15.69	-15.69	-15.70	-15.70	-15.71	-15.74
0.76	INTERCEPT (mV)	1361															Measured Value (mV)
	SLOPE (mV/dB)	24.05															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.20	-15.93	-15.80	-15.70	-15.69	-15.74	-15.76	-15.73	-15.72	-15.72	-15.71	-15.71	-15.71	-15.72	-15.76
0.84	INTERCEPT (mV)	1326															Measured Value (mV)
	SLOPE (mV/dB)	23.54															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.18	-15.90	-15.79	-15.74	-15.71	-15.70	-15.70	-15.73	-15.75	-15.75	-15.75	-15.75	-15.75	-15.76	-15.78
0.92	INTERCEPT (mV)	1299															Measured Value (mV)
	SLOPE (mV/dB)	23.16															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.24	-15.95	-15.83	-15.77	-15.75	-15.75	-15.75	-15.77	-15.78	-15.79	-15.79	-15.79	-15.79	-15.80	-15.82
1.00	INTERCEPT (mV)	1277															Measured Value (mV)
	SLOPE (mV/dB)	23.1															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.31	-16.04	-15.94	-15.86	-15.79	-15.78	-15.78	-15.79	-15.80	-15.81	-15.81	-15.80	-15.80	-15.82	-15.85
1.08	INTERCEPT (mV)	1253															Measured Value (mV)
	SLOPE (mV/dB)	22.9															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.40	-16.05	-15.89	-15.87	-15.90	-15.89	-15.87	-15.84	-15.83	-15.83	-15.83	-15.82	-15.82	-15.83	-15.85
1.16	INTERCEPT (mV)	1211															Measured Value (mV)
	SLOPE (mV/dB)	22.5															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.49	-16.13	-15.90	-15.74	-15.79	-15.87	-15.88	-15.87	-15.85	-15.85	-15.84	-15.83	-15.82	-15.82	-15.82
1.24	INTERCEPT (mV)	1182															Measured Value (mV)
	SLOPE (mV/dB)	22.2															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.56	-16.16	-15.96	-15.87	-15.76	-15.78	-15.80	-15.84	-15.85	-15.86	-15.86	-15.86	-15.86	-15.86	-15.85
1.32	INTERCEPT (mV)	1148															Measured Value (mV)
	SLOPE (mV/dB)	21.8															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.61	-16.30	-16.17	-16.13	-16.09	-16.05	-16.03	-16.05	-16.06	-16.07	-16.07	-16.07	-16.07	-16.06	-16.05
1.35	INTERCEPT (mV)	1146															Measured Value (mV)
	SLOPE (mV/dB)	21.9															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.65	-16.34	-16.19	-16.19	-16.17	-16.13	-16.11	-16.11	-16.11	-16.12	-16.11	-16.11	-16.11	-16.10	-16.10

LINEARITY(-60 TO 0dBm)	± 1.02	dB
LINEARITY(-65 TO +5dBm)	± 1.03	dB

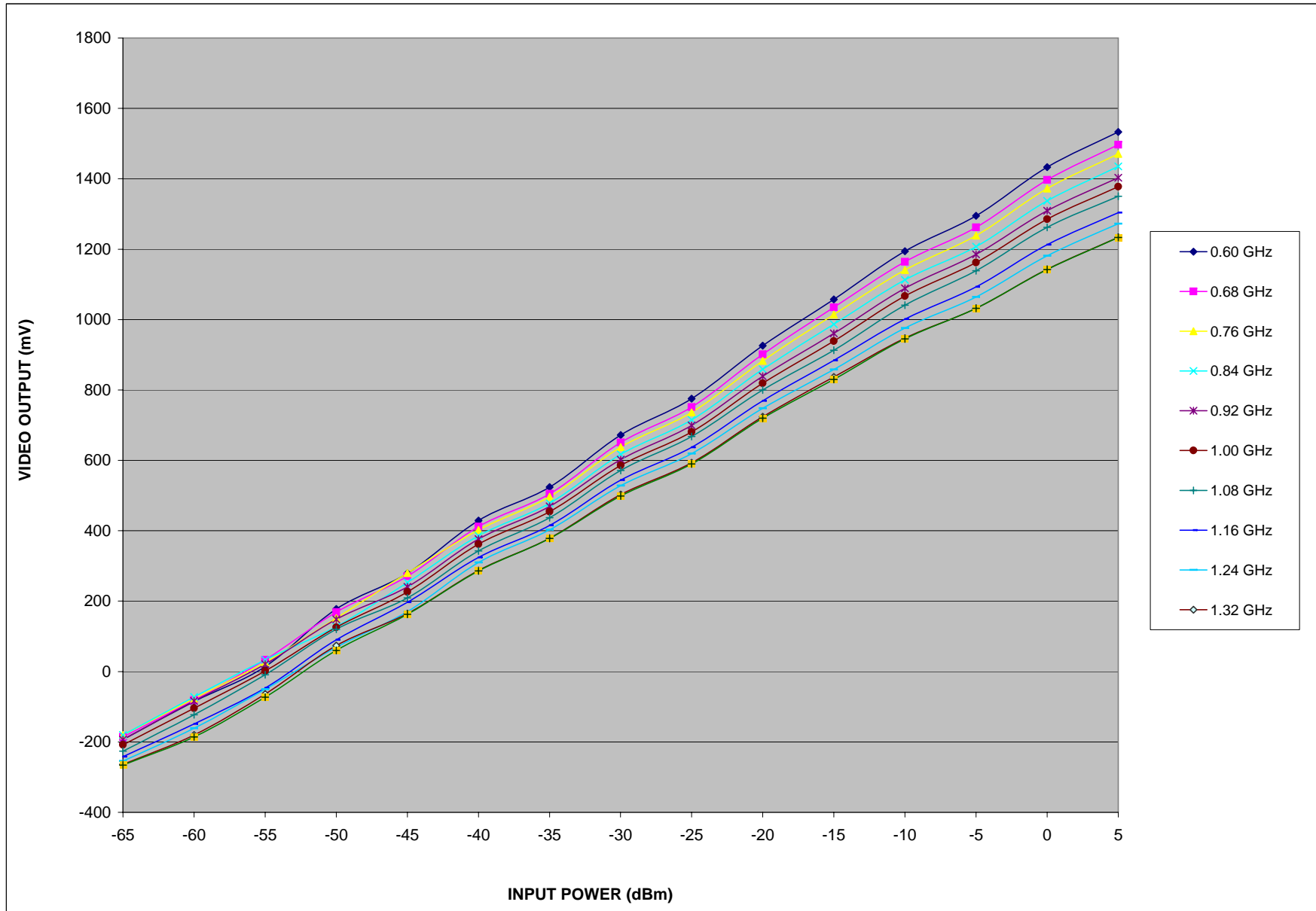
LIMITED IF OUTPUT MAX	-15.68	dBm
LIMITED IF OUTPUT MIN	-16.65	dBm

FREQUENCY (GHz)	0.60	0.68	0.76	0.84	0.92	1.00	1.08	1.16	1.24	1.32	1.35
LOG SLOPE VARIATION WITH FREQUENCY (dBm)	0.7	0.4	0.5	0.4	0.1	0.2	0.4	0.3	0.4	0.4	-0.1

LOG TRANSFER WITH FREQUENCY @ 25 °C
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LOG TRANSFER WITH FREQUENCY @ +85 °C
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 TESTED BY: C. CHADWICK
 DATE: 14/Apr/2007



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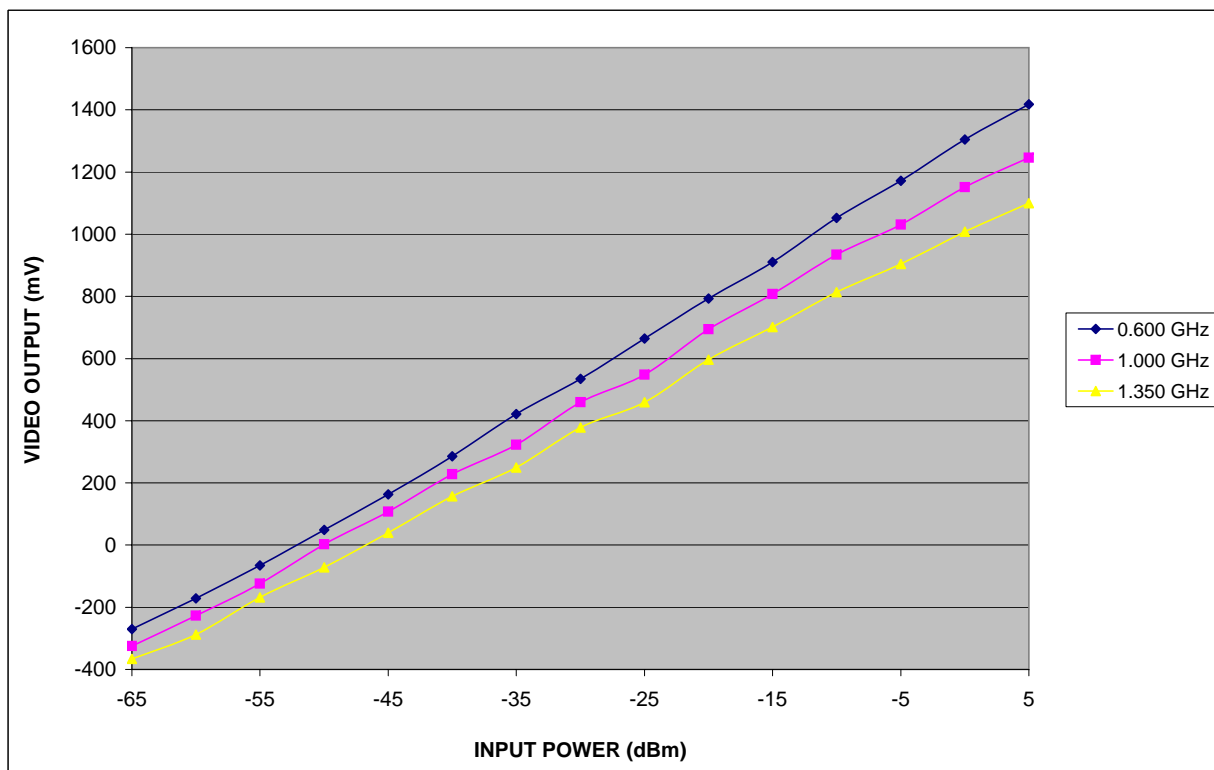
0.60 INTERCEPT (mV) 1287
 SLOPE (mV/dB) 24.55
 LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1143
 SLOPE (mV/dB) 22.88
 LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1011
 SLOPE (mV/dB) 21.44
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.02
 LINEARITY(-65 TO +5dBm) ± 1.56
 FREQUENCY FLATNESS ± 6.36

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60 Measured Value (mV)	-270	-171	-65	49	163	286	421	535	664	793	910	1052	1172	1305	1418	
0.60 Error (mV)	38	15	-2	-11	-20	-19	-7	-16	-10	-3	-9	10	8	18	8	
0.60 Measured Value (mV)	-16.34	-15.99	-15.82	-15.74	-15.67	-15.61	-15.59	-15.59	-15.60	-15.61	-15.62	-15.62	-15.63	-15.64	-15.68	
1.00 Measured Value (mV)	-325	-227	-124	2	107	228	323	460	548	694	807	934	1031	1151	1246	
1.00 Error (mV)	19	2	-9	3	-7	0	-20	3	-23	8	7	20	2	8	-12	
1.00 Measured Value (mV)	-16.74	-16.20	-15.93	-15.80	-15.77	-15.76	-15.74	-15.73	-15.73	-15.73	-15.73	-15.72	-15.72	-15.73	-15.75	
1.35 Measured Value (mV)	-366	-288	-168	-72	40	157	250	378	459	596	701	814	904	1008	1100	
1.35 Error (mV)	17	-12	0	-11	-6	4	-10	10	-16	14	12	18	1	-3	-18	
1.35 Measured Value (mV)	-17.11	-16.52	-16.13	-16.02	-16.02	-16.03	-16.02	-16.00	-16.00	-15.99	-15.98	-15.97	-15.96	-15.94	-15.91	





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**SUMMARY TEST DATA
 ON
 SUCCESSIVE DETECTION LOG VIDEO AMPLIFIED--SDLVA**

CUSTOMER: <u>NORTHROP GRUMMAN</u>	NORTHROP PART NO: <u>990754-1 REV. C</u>
MODEL NO: <u>SLVAC-06135M</u>	JOB NO: <u>P7020774-2 8 1.24.07</u>
OPTION NO: <u>A08, LA</u>	TESTED BY: <u>H.HAHN</u>
SERIAL NO: <u>PM703873</u>	TEMPERATURE: <u>25 °C</u>
	DATE: <u>April 14, 2007</u>

NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	600 TO 1350 MHz	600 TO 1350 MHz	
2	INPUT VSWR	1.8:1 (MAX)	1.32:1	
3	LOGGING RANGE	-65 dB TO +5 dB (MIN) PLOTS ATTACHED	-65 dB TO +5 dB	
4	TSS	-65 dBm (MIN)	-66 dBm	
5	LOG SLOPE VARIATION WITH FREQUENCY	±0.7 mV/dB MAX (over any 80 MHz RF bandwidth from 750 MHz to 1350 MHz) ±1.0 mV/dB MAX (over any 80 MHz RF bandwidth from 600 MHz to 750 MHz) PLOTS ATTACHED	±0.50 mV/dB ±0.70 mV/dB	
6	LOG SLOPE VARIATION WITH TEMPERATURE	±1 mV (MAX)	±0.37 mV	
7	LOG LINEARITY: @ -60 TO 0 dBm @ -65 TO +5dBm	±1.2 dB (MAX) ±1.5 dB(MAX)	±1.06 dB ±1.06 dB	
8	RISE TIME (10% TO 90% POINTS)	25 nSec (MAX)	17 nS	
9	FALL TIME (90% TO 10% POINTS)	30 nSec (MAX)	21 nS	
10	SETTLING TIME	40 nSEC (MAX)	38 nS	
11	LIMITED IF OUTPUT	-18 dBm (MIN)	-15.62 dBm -16.49 dBm	
12	MINIMUM VIDEO OUTPUT VOLTAGE @ 5dBm (Slope connected to ground with 511 Ohm resistor) (Offset connected to ground with 511 Ohm resistor)	2.7 Volts (MAX) 2 Volts (MIN)	2.04 Volts	
13	DC POWER @ +5 VDC (NO LOAD)	30 mA (MAX)	24 mA	
14	PROPAGATION DELAY	10 ns MAXIMUM, 7ns typical	7 nS	
15	VIDEO LOAD	100 OHMS MAX	100 OHMS	
16	DC POWER @ -5 VDC (NO LOAD)	170 mA (MAX)	114 mA	

QA / QC APPROVAL: _____

Q2

DATED: _____

4/24/07

LOG TRANSFER WITH FREQUENCY @ -40 °C
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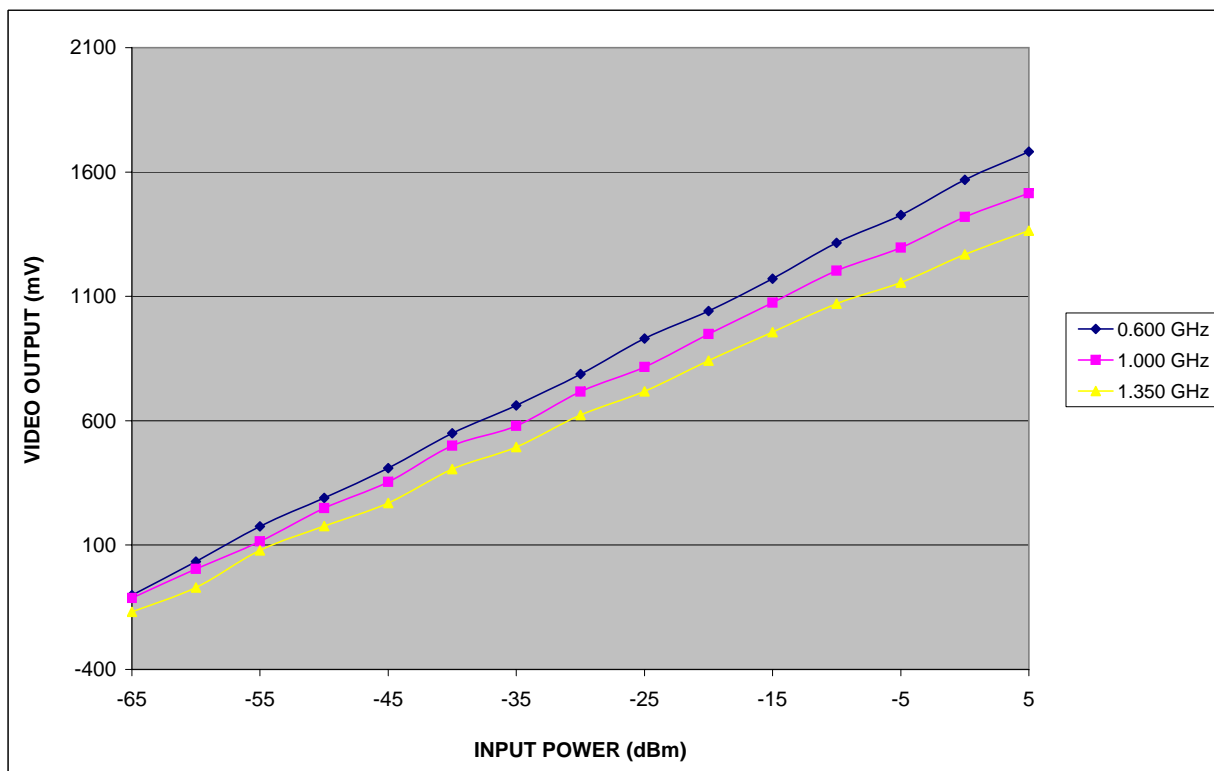
0.60 INTERCEPT (mV) 1559
SLOPE (mV/dB) 25.42
LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1417
SLOPE (mV/dB) 23.51
LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1274
SLOPE (mV/dB) 22.05
LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.95
LINEARITY(-65 TO +5dBm) ± 0.95
FREQUENCY FLATNESS ± 6.36

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60	-101	33	175	290	409	550	662	787	930	1041	1171	1315	1427	1569	1682	Measured Value (mV)
	-7	0	15	2	-6	8	-7	-9	7	-9	-6	11	-5	10	-4	Error (mV)
	-16.18	-16.05	-15.95	-15.85	-15.85	-15.89	-15.93	-15.95	-15.94	-15.95	-15.95	-15.95	-15.95	-15.09	-16.02	Measured Value (mV)
1.00	-113	4	115	249	354	499	579	717	816	949	1075	1203	1296	1419	1515	Measured Value (mV)
	-2	-3	-9	7	-5	22	-15	5	-13	2	11	21	-3	2	-19	Error (mV)
	-16.26	-16.06	-16.03	-15.99	-15.99	-16.00	-16.01	-16.04	-16.06	-16.07	-16.07	-16.07	-16.07	-16.09	-16.12	Measured Value (mV)
1.35	-168	-70	79	176	269	406	494	623	718	841	956	1071	1155	1269	1364	Measured Value (mV)
	-8	-21	18	5	-12	14	-8	11	-4	8	13	18	-9	-5	-20	Error (mV)
	-16.45	-16.38	-16.39	-16.37	-16.32	-16.23	-16.25	-16.30	-16.32	-16.33	-16.34	-16.35	-16.35	-16.34	-16.35	Measured Value (mV)



LOG TRANSFER WITH FREQUENCY @ 25 °C
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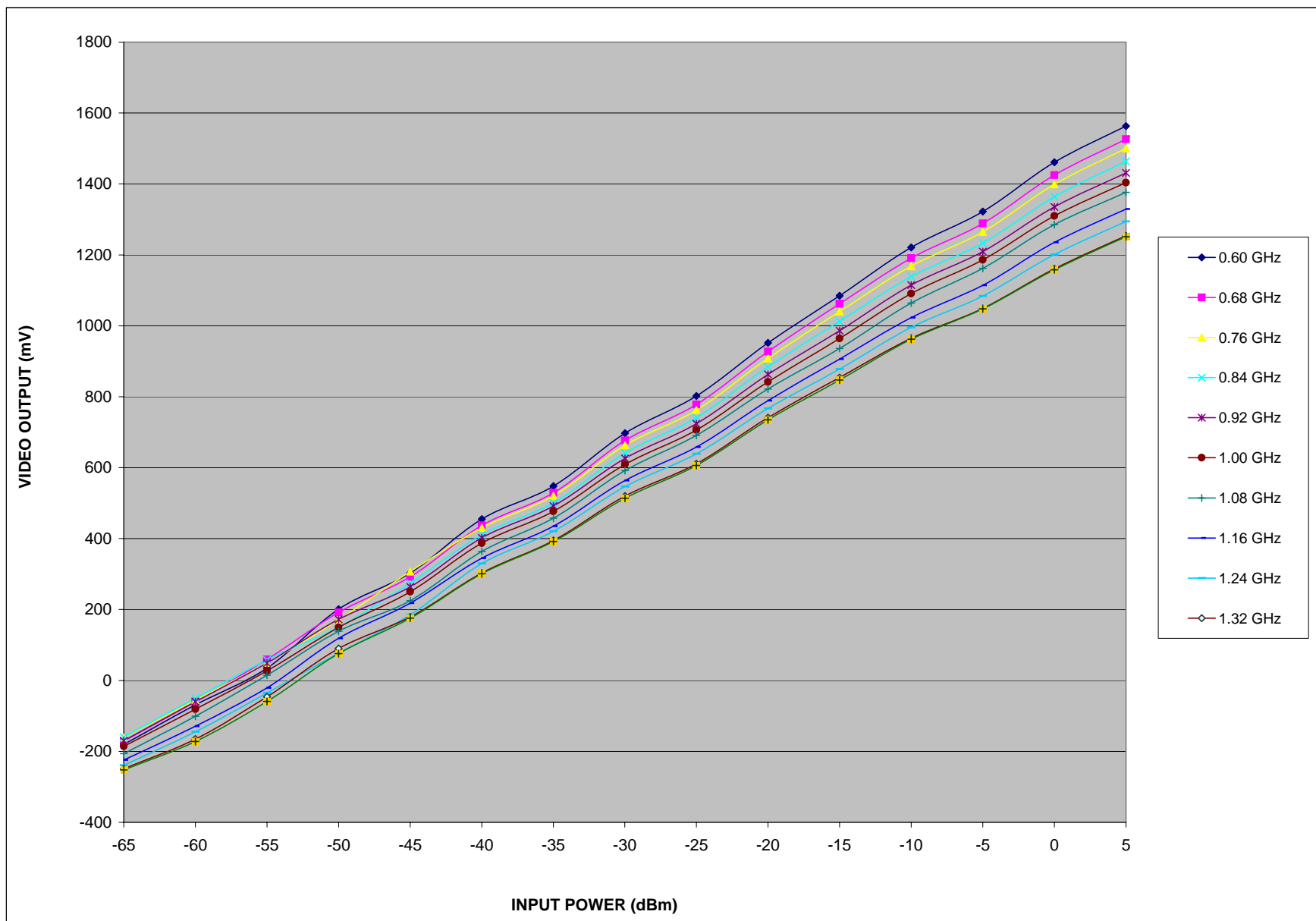
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Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60	INTERCEPT (mV)	1454															Measured Value (mV)
	SLOPE (mV/dB)	25.35															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
0.68	INTERCEPT (mV)	1416															Measured Value (mV)
	SLOPE (mV/dB)	24.62															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
0.76	INTERCEPT (mV)	1389															Measured Value (mV)
	SLOPE (mV/dB)	24.15															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
0.84	INTERCEPT (mV)	1353															Measured Value (mV)
	SLOPE (mV/dB)	23.63															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
0.92	INTERCEPT (mV)	1325															Measured Value (mV)
	SLOPE (mV/dB)	23.19															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
1.00	INTERCEPT (mV)	1302															Measured Value (mV)
	SLOPE (mV/dB)	23.1															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
1.08	INTERCEPT (mV)	1276															Measured Value (mV)
	SLOPE (mV/dB)	22.9															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
1.16	INTERCEPT (mV)	1233															Measured Value (mV)
	SLOPE (mV/dB)	22.5															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
1.24	INTERCEPT (mV)	1203															Measured Value (mV)
	SLOPE (mV/dB)	22.3															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
1.32	INTERCEPT (mV)	1166															Measured Value (mV)
	SLOPE (mV/dB)	21.8															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
1.35	INTERCEPT (mV)	1163															Measured Value (mV)
	SLOPE (mV/dB)	21.9															Error (mV)
	LIMITED IF OUTPUT (dBm)																Measured Value (mV)
LINEARITY(-60 TO 0dBm)		± 1.06	dB														
LINEARITY(-65 TO +5dBm)		± 1.06	dB														
LIMITED IF OUTPUT MAX		-15.62	dBm														
LIMITED IF OUTPUT MIN		-16.49	dBm														
FREQUENCY (GHz)		0.60	0.68	0.76	0.84	0.92	1.00	1.08	1.16	1.24	1.32	1.35					
LOG SLOPE VARIATION WITH FREQUENCY (dBm)		0.7	0.5	0.5	0.4	0.1	0.1	0.4	0.2	0.5	-0.1						

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LOG TRANSFER WITH FREQUENCY @ +85 °C
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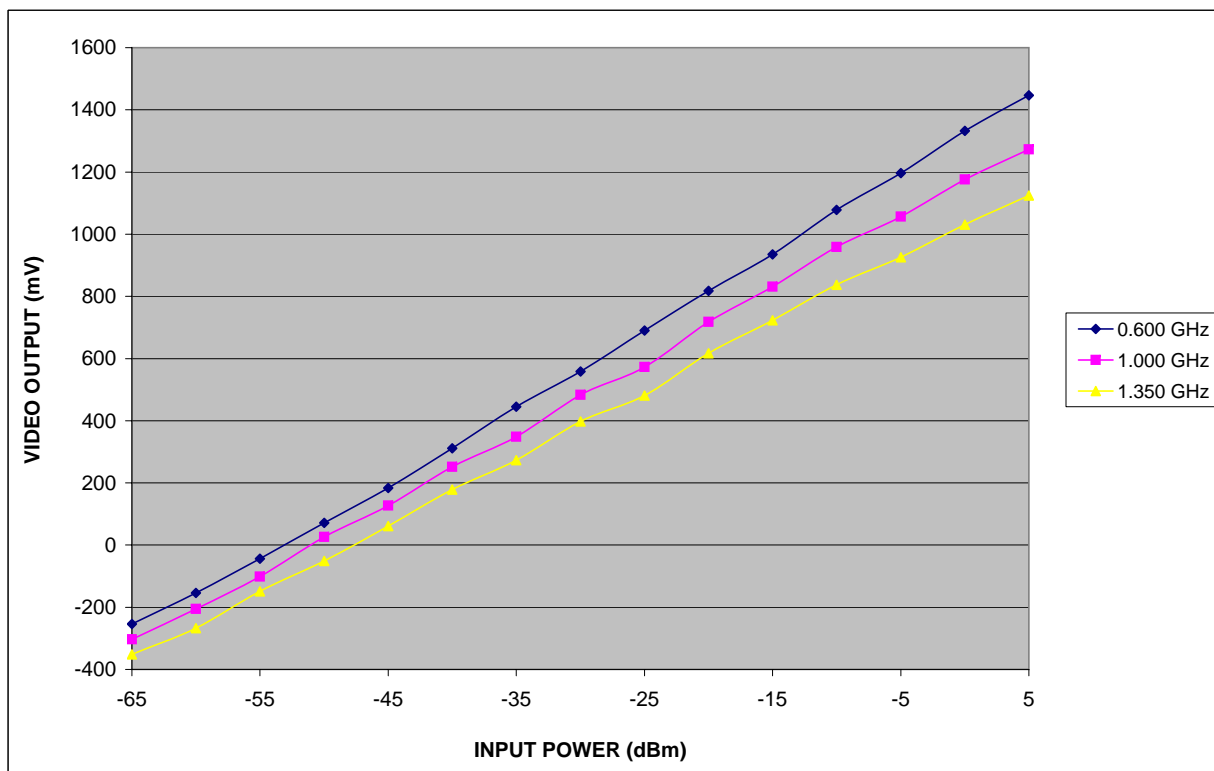
0.60 INTERCEPT (mV) 1315
 SLOPE (mV/dB) 24.69
 LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1169
 SLOPE (mV/dB) 22.93
 LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1034
 SLOPE (mV/dB) 21.51
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.98
 LINEARITY(-65 TO +5dBm) ± 1.46
 FREQUENCY FLATNESS ± 6.46

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60 Measured Value (mV)	-254	-154	-44	71	184	311	445	558	690	818	935	1078	1197	1332	1447	
0.60 Error (mV)	36	12	-1	-9	-20	-16	-6	-16	-8	-3	-10	10	5	17	9	
0.60 Measured Value (mV)	-16.04	-15.72	-15.57	-15.50	-15.41	-15.36	-15.35	-15.35	-15.37	-15.39	-15.40	-15.40	-15.41	-15.42	-15.46	
1.00 Measured Value (mV)	-303	-205	-101	26	127	252	348	483	573	718	831	959	1056	1176	1273	
1.00 Error (mV)	19	2	-9	4	-10	0	-18	2	-23	8	6	20	2	7	-10	
1.00 Measured Value (mV)	-16.30	-15.84	-15.62	-15.51	-15.48	-15.46	-15.45	-15.44	-15.44	-15.44	-15.44	-15.44	-15.44	-15.45	-15.47	
1.35 Measured Value (mV)	-352	-267	-149	-51	61	179	273	398	481	617	723	837	926	1031	1124	
1.35 Error (mV)	12	-10	0	-9	-5	5	-8	9	-15	13	12	18	-1	-3	-18	
1.35 Measured Value (mV)	-16.73	-16.20	-15.88	-15.79	-15.80	-15.80	-15.79	-15.77	-15.77	-15.76	-15.76	-15.75	-15.74	-15.72	-15.69	





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**SUMMARY TEST DATA
 ON
 SUCCESSIVE DETECTION LOG VIDEO AMPLIFIED--SDLVA**

CUSTOMER: <u>NORTHROP GRUMMAN</u>	NORTHROP PART NO: <u>990754-1 REV. C</u>
MODEL NO: <u>SLVAC-06135M</u>	JOB NO: <u>P702077-2 4.24.07</u>
OPTION NO: <u>A08, LA</u>	TESTED BY: <u>H.HAHN</u>
SERIAL NO: <u>PM703874</u>	TEMPERATURE: <u>25 °C</u>
	DATE: <u>April 14, 2007</u>

NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	600 TO 1350 MHz	600 TO 1350 MHz	
2	INPUT VSWR	1.8:1 (MAX)	1.28:1	
3	LOGGING RANGE	-65 dB TO +5 dB (MIN) PLOTS ATTACHED	-65 dB TO +5 dB	
4	TSS	-65 dBm (MIN)	-66 dBm	
5	LOG SLOPE VARIATION WITH FREQUENCY	±0.7 mV/dB MAX (over any 80 MHz RF bandwidth from 750 MHz to 1350 MHz) ±1.0 mV/dB MAX (over any 80 MHz RF bandwidth from 600 MHz to 750 MHz) PLOTS ATTACHED	±0.50 mV/dB ±0.80 mV/dB	
6	LOG SLOPE VARIATION WITH TEMPERATURE	±1 mV (MAX)	±0.30 mV	
7	LOG LINEARITY: @ -60 TO 0 dBm @ -65 TO +5dBm	±1.2 dB (MAX) ±1.5 dB(MAX)	±1.07 dB ±1.16 dB	
8	RISE TIME (10% TO 90% POINTS)	25 nSec (MAX)	16 nS	
9	FALL TIME (90% TO 10% POINTS)	30 nSec (MAX)	21 nS	
10	SETTLING TIME	40 nSEC (MAX)	38 nS	
11	LIMITED IF OUTPUT	-18 dBm (MIN)	-15.74 dBm -16.82 dBm	
12	MINIMUM VIDEO OUTPUT VOLTAGE @ 5dBm (Slope connected to ground with 511 Ohm resistor) (Offset connected to ground with 511 Ohm resistor)	2.7 Volts (MAX) 2 Volts (MIN)	2.06 Volts	
13	DC POWER @ +5 VDC (NO LOAD)	30 mA (MAX)	24 mA	
14	PROPAGATION DELAY	10 ns MAXIMUM, 7ns typical	7 nS	
15	VIDEO LOAD	100 OHMS MAX	100 OHMS	
16	DC POWER @ -5 VDC (NO LOAD)	170 mA (MAX)	113 mA	

QA / QC APPROVAL: _____

02

DATED: _____

4/24/07

LOG TRANSFER WITH FREQUENCY @ -40 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703874
 TESTED BY: C. CHADWICK
 DATE: 14/Apr/2007



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Frequency

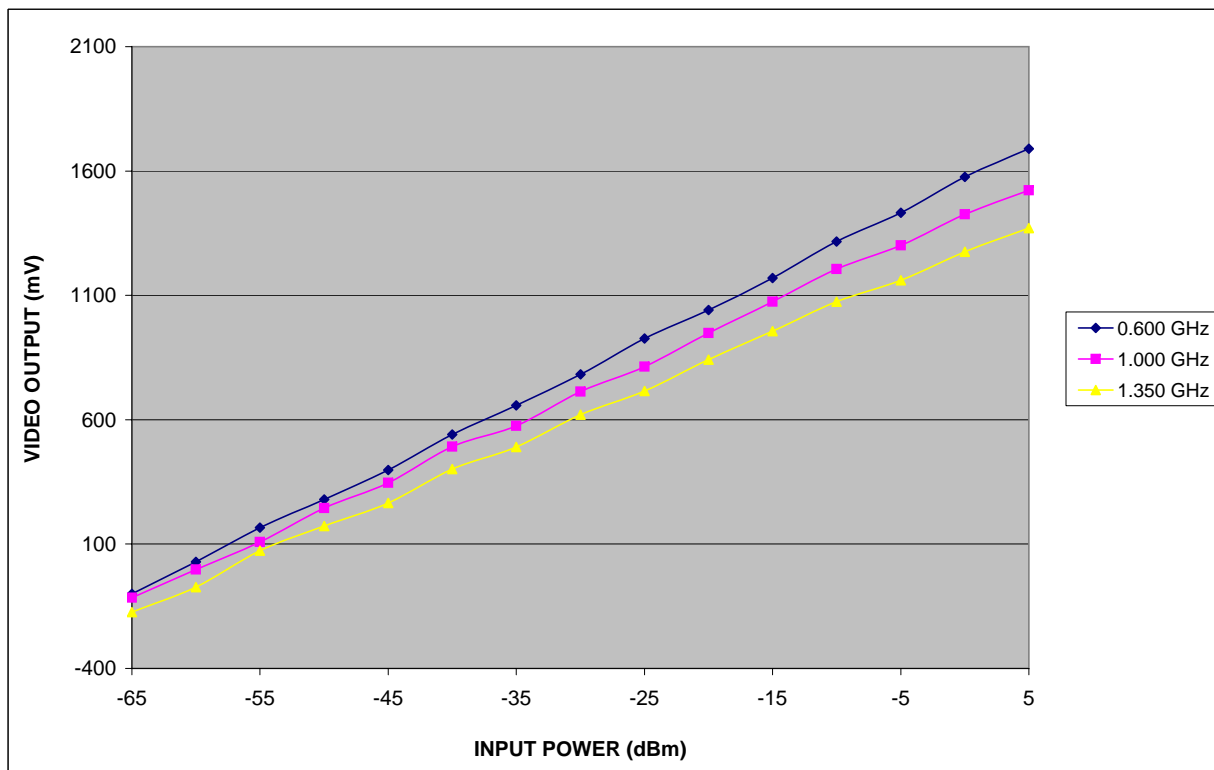
0.60 INTERCEPT (mV) 1562
SLOPE (mV/dB) 25.62
LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1421
SLOPE (mV/dB) 23.71
LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1278
SLOPE (mV/dB) 22.23
LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.92
LINEARITY(-65 TO +5dBm) ± 0.92
FREQUENCY FLATNESS ± 6.38

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60	-100	28	166	279	398	541	658	782	926	1041	1170	1316	1432	1576	1689	Measured Value (mV)
	3	3	13	-2	-11	4	-7	-11	4	-9	-8	10	-2	14	-1	Error (mV)
	-16.17	-16.02	-15.91	-15.82	-15.79	-15.83	-15.86	-15.89	-15.89	-15.89	-15.89	-15.89	-15.89	-15.91	-15.96	Measured Value (mV)
1.00	-116	-3	108	244	346	492	575	713	813	949	1075	1206	1301	1426	1522	Measured Value (mV)
	4	-2	-9	8	-8	19	-17	3	-16	2	9	22	-2	5	-18	Error (mV)
	-16.27	-16.08	-16.07	-15.96	-15.94	-15.94	-15.95	-15.98	-15.99	-16.01	-16.00	-16.00	-16.00	-16.02	-16.06	Measured Value (mV)
1.35	-174	-73	73	173	265	401	491	620	715	841	956	1074	1161	1275	1370	Measured Value (mV)
	-7	-17	17	6	-13	12	-9	9	-7	8	11	18	-6	-3	-19	Error (mV)
	-16.54	-16.48	-16.41	-16.37	-16.32	-16.24	-16.25	-16.30	-16.32	-16.33	-16.33	-16.34	-16.34	-16.33	-16.33	Measured Value (mV)



LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703874
 TESTED BY: H. HAHN
 DATE: 14/Apr/2007



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Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60	INTERCEPT (mV)	1467															Measured Value (mV)
	SLOPE (mV/dB)	25.64															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.38	-16.13	-16.02	-15.88	-15.81	-15.80	-15.82	-15.85	-15.86	-15.87	-15.87	-15.87	-15.88	-15.89	-15.92
0.68	INTERCEPT (mV)	1429															Measured Value (mV)
	SLOPE (mV/dB)	24.88															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.33	-16.07	-15.95	-15.90	-15.89	-15.83	-15.78	-15.74	-15.75	-15.76	-15.76	-15.77	-15.77	-15.78	-15.81
0.76	INTERCEPT (mV)	1403															Measured Value (mV)
	SLOPE (mV/dB)	24.44															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.27	-16.01	-15.88	-15.78	-15.79	-15.84	-15.85	-15.82	-15.80	-15.80	-15.80	-15.79	-15.80	-15.81	-15.85
0.84	INTERCEPT (mV)	1367															Measured Value (mV)
	SLOPE (mV/dB)	23.93															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.26	-15.99	-15.90	-15.85	-15.81	-15.78	-15.79	-15.82	-15.84	-15.84	-15.84	-15.84	-15.84	-15.85	-15.87
0.92	INTERCEPT (mV)	1340															Measured Value (mV)
	SLOPE (mV/dB)	23.54															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.33	-16.05	-15.93	-15.87	-15.85	-15.85	-15.86	-15.87	-15.89	-15.90	-15.89	-15.89	-15.90	-15.91	-15.94
1.00	INTERCEPT (mV)	1317															Measured Value (mV)
	SLOPE (mV/dB)	23.4															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.43	-16.16	-16.07	-15.97	-15.91	-15.90	-15.90	-15.91	-15.91	-15.93	-15.93	-15.92	-15.92	-15.94	-15.97
1.08	INTERCEPT (mV)	1290															Measured Value (mV)
	SLOPE (mV/dB)	23.2															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.55	-16.19	-16.04	-16.02	-16.05	-16.02	-15.99	-15.96	-15.95	-15.95	-15.95	-15.94	-15.94	-15.95	-15.97
1.16	INTERCEPT (mV)	1246															Measured Value (mV)
	SLOPE (mV/dB)	22.8															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.66	-16.29	-16.04	-15.88	-15.92	-16.00	-16.01	-15.99	-15.98	-15.97	-15.96	-15.96	-15.95	-15.95	-15.95
1.24	INTERCEPT (mV)	1215															Measured Value (mV)
	SLOPE (mV/dB)	22.6															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.74	-16.35	-16.14	-16.05	-15.93	-15.96	-15.98	-16.02	-16.02	-16.04	-16.03	-16.03	-16.03	-16.02	-16.02
1.32	INTERCEPT (mV)	1178															Measured Value (mV)
	SLOPE (mV/dB)	22.1															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.80	-16.49	-16.36	-16.32	-16.27	-16.22	-16.21	-16.23	-16.24	-16.24	-16.24	-16.24	-16.24	-16.23	-16.22
1.35	INTERCEPT (mV)	1175															Measured Value (mV)
	SLOPE (mV/dB)	22.2															Error (mV)
	LIMITED IF OUTPUT (dBm)		-16.82	-16.51	-16.35	-16.34	-16.31	-16.27	-16.25	-16.25	-16.26	-16.26	-16.26	-16.26	-16.25	-16.24	-16.24

LINEARITY(-60 TO 0dBm)	± 1.07	dB
LINEARITY(-65 TO +5dBm)	± 1.16	dB

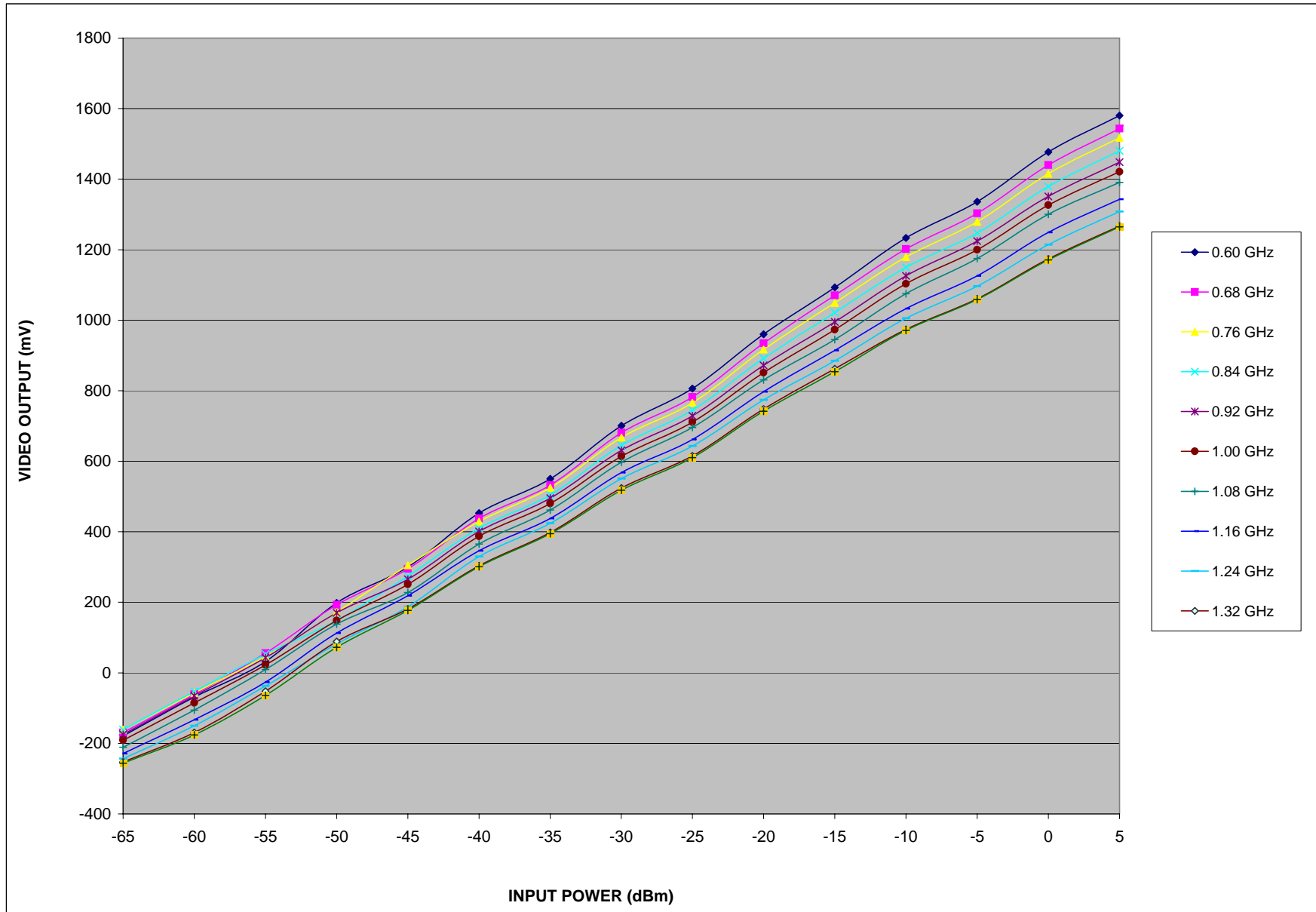
LIMITED IF OUTPUT MAX	-15.74	dBm
LIMITED IF OUTPUT MIN	-16.82	dBm

FREQUENCY (GHz)	0.60	0.68	0.76	0.84	0.92	1.00	1.08	1.16	1.24	1.32	1.35
LOG SLOPE VARIATION WITH FREQUENCY (dBm)	0.8	0.4	0.5	0.4	0.1	0.2	0.4	0.2	0.5	0.5	-0.1

LOG TRANSFER WITH FREQUENCY @ 25 °C
MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703874
TESTED BY: H. HAHN
DATE: 14/Apr/2007



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LOG TRANSFER WITH FREQUENCY @ +85 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703874
 TESTED BY: C. CHADWICK
 DATE: 14/Apr/2007



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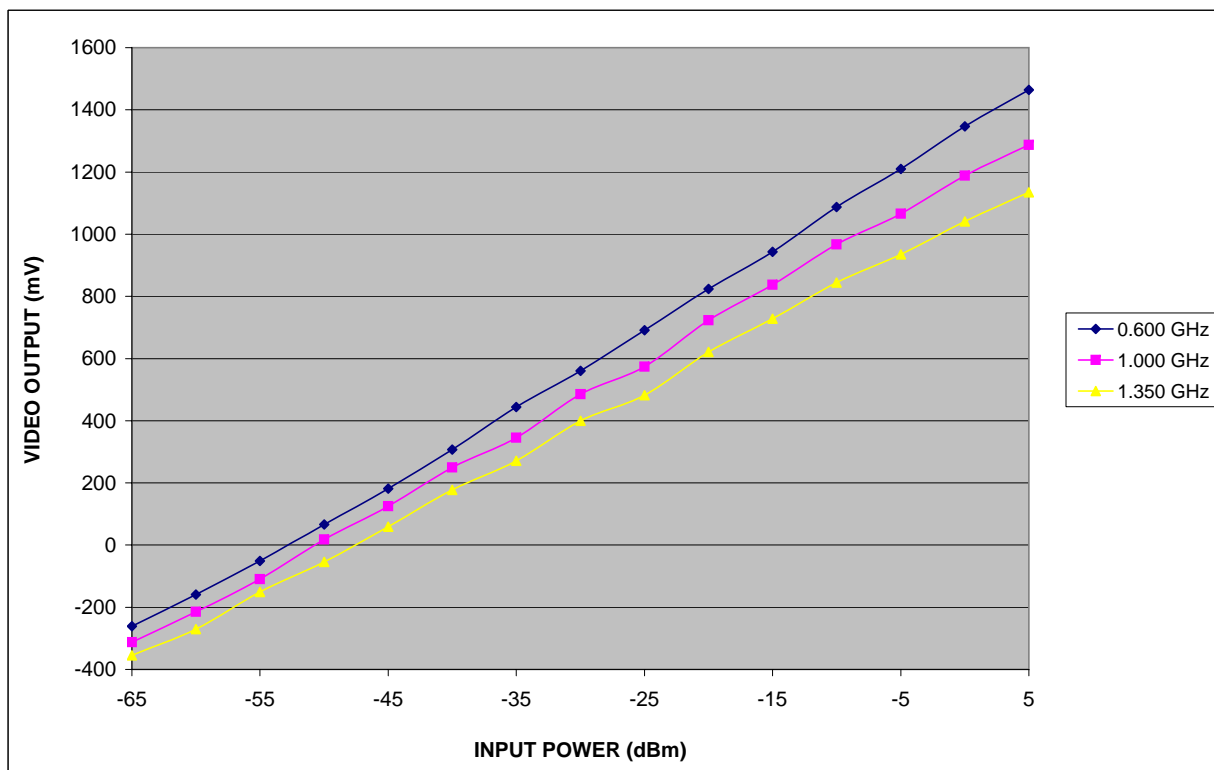
0.60 INTERCEPT (mV) 1328
 SLOPE (mV/dB) 25.05
 LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1180
 SLOPE (mV/dB) 23.29
 LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1043
 SLOPE (mV/dB) 21.73
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.04
 LINEARITY(-65 TO +5dBm) ± 1.54
 FREQUENCY FLATNESS ± 6.58

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60 Measured Value (mV)	-261	-159	-51	66	182	307	444	560	691	824	943	1087	1210	1347	1464	
0.60 Error (mV)	39	15	-2	-10	-19	-19	-8	-17	-11	-3	-10	9	7	19	10	
0.60 Measured Value (mV)	-16.21	-15.86	-15.70	-15.62	-15.54	-15.48	-15.46	-15.46	-15.48	-15.49	-15.50	-15.50	-15.51	-15.52	-15.56	
1.00 Measured Value (mV)	-312	-215	-110	18	125	249	345	485	574	723	837	967	1066	1188	1287	
1.00 Error (mV)	21	2	-10	2	-8	0	-20	3	-24	8	6	19	2	8	-10	
1.00 Measured Value (mV)	-16.53	-16.02	-15.76	-15.62	-15.59	-15.56	-15.55	-15.54	-15.53	-15.54	-15.54	-15.53	-15.53	-15.54	-15.56	
1.35 Measured Value (mV)	-355	-270	-151	-54	59	177	271	400	482	621	728	844	935	1041	1135	
1.35 Error (mV)	15	-9	1	-10	-6	3	-11	9	-18	13	11	19	1	-2	-16	
1.35 Measured Value (mV)	-16.98	-16.37	-16.01	-15.91	-15.89	-15.91	-15.90	-15.88	-15.88	-15.87	-15.86	-15.85	-15.84	-15.81	-15.77	





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**SUMMARY TEST DATA
 ON
 SUCCESSIVE DETECTION LOG VIDEO AMPLIFIED--SDLVA**

CUSTOMER: <u>NORTHROP GRUMMAN</u>	NORTHROP PART NO: <u>990754-1 REV. C</u>
MODEL NO: <u>SLVAC-06135M</u>	JOB NO: <u>P702077-2-2 DE 9.24.07</u>
OPTION NO: <u>A08, LA</u>	TESTED BY: <u>H.HAHN</u>
SERIAL NO: <u>PM703875</u>	TEMPERATURE: <u>25 °C</u>
	DATE: <u>April 14, 2007</u>

NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	600 TO 1350 MHz	600 TO 1350 MHz	
2	INPUT VSWR	1.8:1 (MAX)	1.32:1	
3	LOGGING RANGE	-65 dB TO +5 dB (MIN) PLOTS ATTACHED	-65 dB TO +5 dB	
4	TSS	-65 dBm (MIN)	-66 dBm	
5	LOG SLOPE VARIATION WITH FREQUENCY	±0.7 mV/dB MAX (over any 80 MHz RF bandwidth from 750 MHz to 1350 MHz) ±1.0 mV/dB MAX (over any 80 MHz RF bandwidth from 600 MHz to 750 MHz) PLOTS ATTACHED	±0.50 mV/dB ±0.80 mV/dB	
6	LOG SLOPE VARIATION WITH TEMPERATURE	±1 mV (MAX)	±0.35 mV	
7	LOG LINEARITY: @ -60 TO 0 dBm @-65 TO +5dBm	±1.2 dB (MAX) ±1.5 dB(MAX)	±1.13 dB ±1.34 dB	
8	RISE TIME (10% TO 90% POINTS)	25 nSec (MAX)	16 nS	
9	FALL TIME (90% TO 10% POINTS)	30 nSec (MAX)	21 nS	
10	SETTLING TIME	40 nSEC (MAX)	38 nS	
11	LIMITED IF OUTPUT	-18 dBm (MIN)	-15.63 dBm -16.77 dBm	
12	MINIMUM VIDEO OUTPUT VOLTAGE @ 5dBm (Slope connected to ground with 511 Ohm resistor) (Offset connected to ground with 511 Ohm resistor)	2.7 Volts (MAX) 2 Volts (MIN)	2.03 Volts	
13	DC POWER @ +5 VDC (NO LOAD)	30 mA (MAX)	23mA	
14	PROPAGATION DELAY	10 ns MAXIMUM, 7ns typical	7 nS	
15	VIDEO LOAD	100 OHMS MAX	100 OHMS	
16	DC POWER @ -5 VDC (NO LOAD)	170 mA (MAX)	113 mA	

QA / QC APPROVAL: _____ **Q2**

DATED: 4/24/07

LOG TRANSFER WITH FREQUENCY @ -40 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703875
 TESTED BY: C. CHADWICK
 DATE: 14/Apr/2007



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Frequency

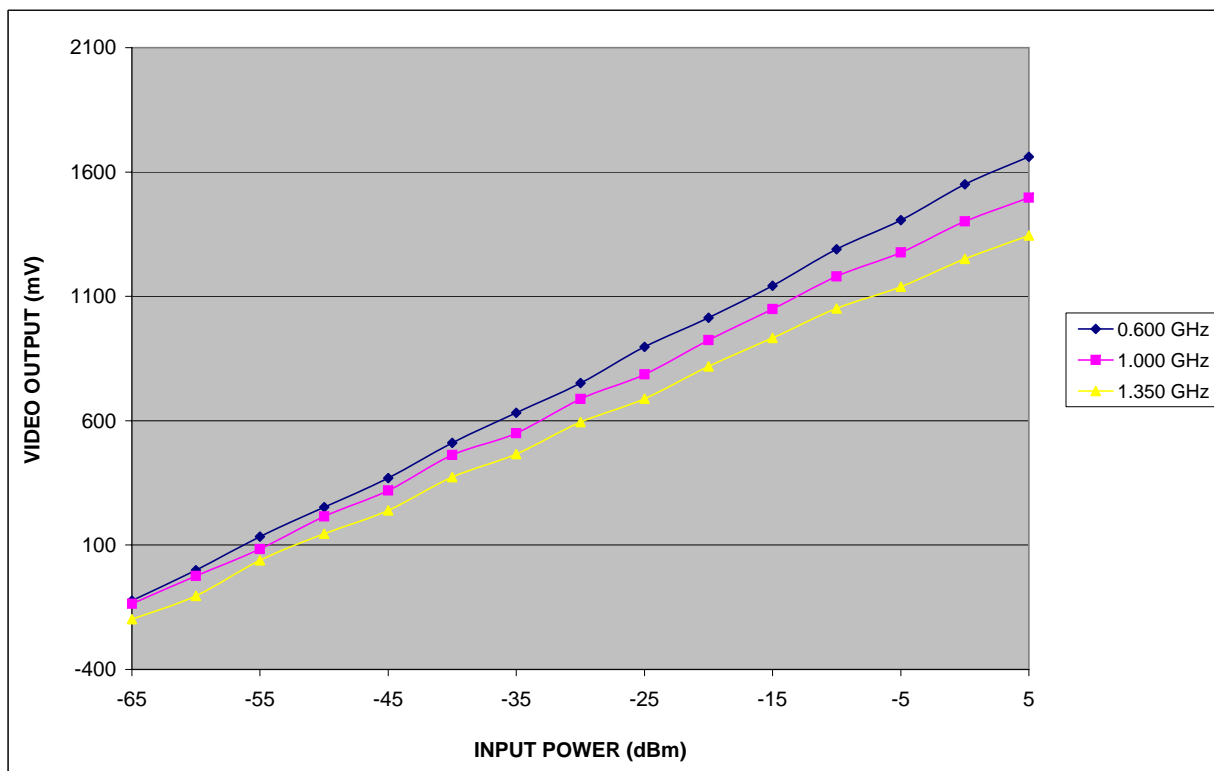
0.60 INTERCEPT (mV) 1535
 SLOPE (mV/dB) 25.65
 LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1395
 SLOPE (mV/dB) 23.67
 LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1255
 SLOPE (mV/dB) 22.32
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 0.93
 LINEARITY(-65 TO +5dBm) ± 0.97
 FREQUENCY FLATNESS ± 6.32

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60 Measured Value (mV)	-123	-1	134	252	369	511	632	752	897	1014	1143	1290	1407	1550	1661	Measured Value (mV)
0.60 Error (mV)	9	3	9	-1	-12	2	-6	-14	3	-8	-8	11	0	15	-2	Error (mV)
0.60 Measured Value (mV)	-15.93	-15.79	-15.67	-15.56	-15.52	-15.54	-15.57	-15.59	-15.59	-15.60	-15.60	-15.61	-15.62	-15.64	-15.69	Measured Value (mV)
1.00 Measured Value (mV)	-136	-24	84	215	319	462	550	687	786	924	1049	1180	1276	1401	1496	Measured Value (mV)
1.00 Error (mV)	8	2	-9	4	-10	14	-16	2	-17	3	9	22	0	6	-17	Error (mV)
1.00 Measured Value (mV)	-16.01	-15.84	-15.83	-15.70	-15.68	-15.68	-15.69	-15.71	-15.72	-15.73	-15.73	-15.73	-15.74	-15.76	-15.80	Measured Value (mV)
1.35 Measured Value (mV)	-198	-104	39	146	240	373	466	594	688	818	933	1052	1139	1251	1345	Measured Value (mV)
1.35 Error (mV)	-2	-20	11	7	-11	11	-8	9	-9	9	13	20	-4	-4	-22	Error (mV)
1.35 Measured Value (mV)	-16.27	-16.15	-16.16	-16.09	-16.04	-15.98	-15.98	-16.01	-16.01	-15.99	-16.00	-16.01	-16.02	-16.01	-16.02	Measured Value (mV)



LOG TRANSFER WITH FREQUENCY @ 25 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703875
 TESTED BY: H. HAHN
 DATE:14/Apr/2007



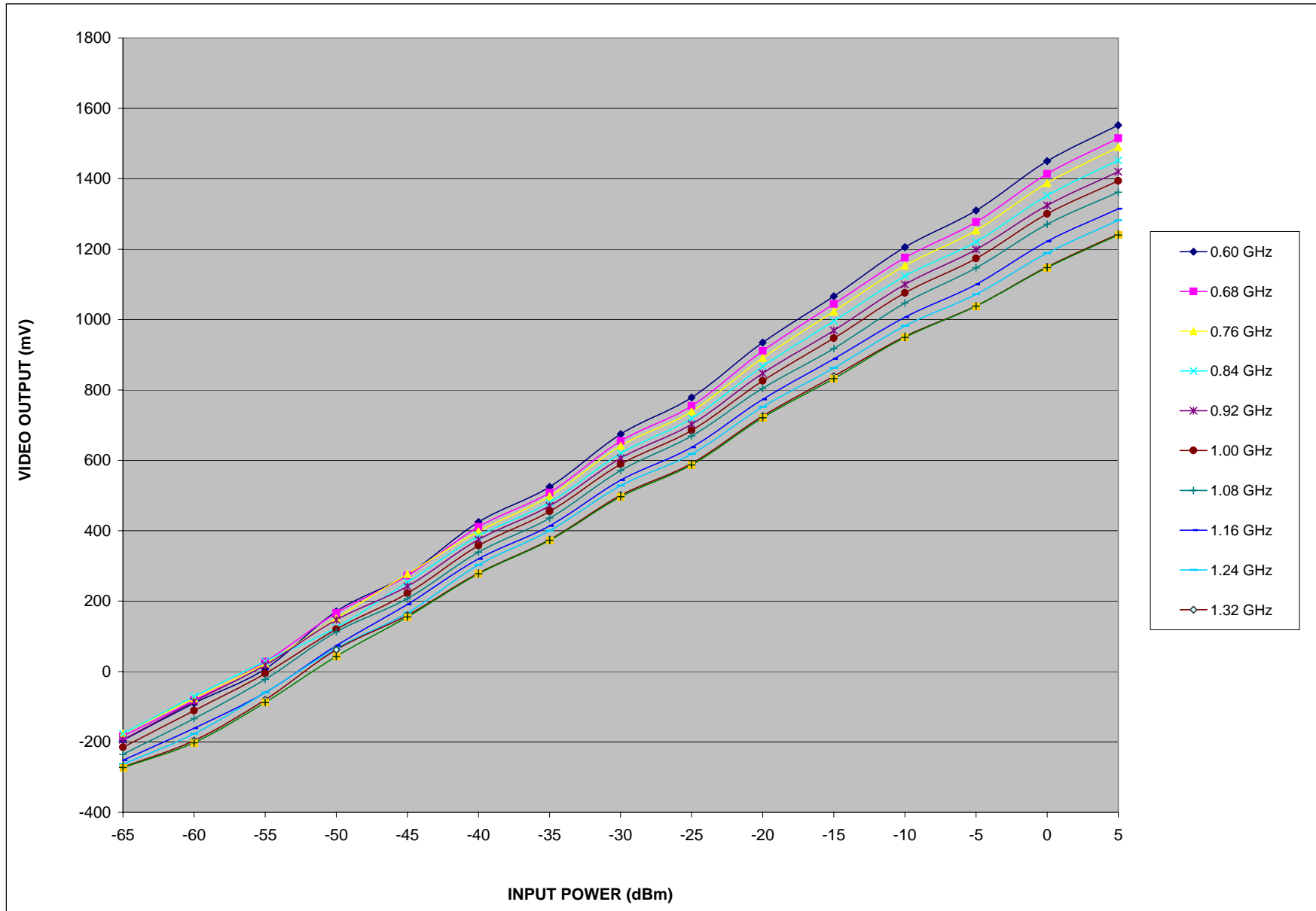
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Frequency		-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)						
0.60 INTERCEPT (mV) 1439 SLOPE (mV/dB) 25.55 LIMITED IF OUTPUT (dBm)		-195	-90	7	171	275	425	525	675	779	935	1066	1206	1310	1450	1552	Measured Value (mV)						
		27	4	-27	9	-14	8	-20	2	-21	7	10	22	-2	11	-15	Error (mV)						
		-16.31	-16.03	-15.90	-15.76	-15.68	-15.66	-15.66	-15.69	-15.70	-15.70	-15.71	-15.72	-15.73	-15.74	-15.78	Measured Value (mV)						
0.68 INTERCEPT (mV) 1402 SLOPE (mV/dB) 24.8 LIMITED IF OUTPUT (dBm)		-184	-82	28	166	272	411	508	655	755	911	1044	1176	1277	1414	1515	Measured Value (mV)						
		26	4	-10	4	-14	1	-26	-3	-27	5	14	22	-1	12	-11	Error (mV)						
		-16.25	-15.98	-15.84	-15.76	-15.74	-15.71	-15.68	-15.64	-15.63	-15.63	-15.63	-15.64	-15.66	-15.68	-15.71	Measured Value (mV)						
0.76 INTERCEPT (mV) 1375 SLOPE (mV/dB) 24.34 LIMITED IF OUTPUT (dBm)		-176	-76	23	151	277	398	498	641	739	891	1023	1153	1253	1388	1490	Measured Value (mV)						
		31	9	-13	-7	-3	-4	-25	-4	-28	3	13	21	0	13	-7	Error (mV)						
		-16.20	-15.95	-15.82	-15.70	-15.65	-15.69	-15.71	-15.71	-15.69	-15.68	-15.68	-15.68	-15.69	-15.71	-15.76	Measured Value (mV)						
0.84 INTERCEPT (mV) 1339 SLOPE (mV/dB) 23.80 LIMITED IF OUTPUT (dBm)		-176	-71	29	125	254	385	480	620	719	867	996	1124	1221	1352	1452	Measured Value (mV)						
		32	18	-1	-24	-14	-2	-26	-5	-25	4	14	23	1	13	-6	Error (mV)						
		-16.18	-15.91	-15.82	-15.77	-15.71	-15.69	-15.69	-15.72	-15.73	-15.73	-15.73	-15.73	-15.75	-15.76	-15.79	Measured Value (mV)						
0.92 INTERCEPT (mV) 1313 SLOPE (mV/dB) 23.45 LIMITED IF OUTPUT (dBm)		-194	-85	18	147	242	375	471	606	703	847	969	1100	1199	1324	1420	Measured Value (mV)						
		17	9	-5	6	-16	0	-21	-3	-24	3	8	22	3	11	-10	Error (mV)						
		-16.26	-15.93	-15.82	-15.76	-15.75	-15.76	-15.76	-15.78	-15.78	-15.78	-15.79	-15.79	-15.80	-15.82	-15.85	Measured Value (mV)						
1.00 INTERCEPT (mV) 1290 SLOPE (mV/dB) 23.4 LIMITED IF OUTPUT (dBm)		-215	-111	-6	120	222	358	455	589	685	826	947	1076	1174	1300	1394	Measured Value (mV)						
		17	4	-8	1	-14	5	-15	1	-20	4	8	20	1	10	-13	Error (mV)						
		-16.38	-16.08	-15.95	-15.86	-15.80	-15.79	-15.79	-15.79	-15.80	-15.81	-15.81	-15.81	-15.81	-15.83	-15.86	Measured Value (mV)						
1.08 INTERCEPT (mV) 1262 SLOPE (mV/dB) 23.2 LIMITED IF OUTPUT (dBm)		-235	-134	-22	113	207	339	436	571	669	805	918	1047	1147	1271	1362	Measured Value (mV)						
		11	-4	-8	11	-11	5	-14	5	-13	7	4	17	1	9	-16	Error (mV)						
		-16.51	-16.13	-15.94	-15.87	-15.91	-15.93	-15.91	-15.87	-15.87	-15.86	-15.86	-15.85	-15.85	-15.86	-15.88	Measured Value (mV)						
1.16 INTERCEPT (mV) 1220 SLOPE (mV/dB) 22.9 LIMITED IF OUTPUT (dBm)		-252	-161	-60	74	191	320	414	544	637	773	888	1007	1100	1222	1315	Measured Value (mV)						
		14	-9	-22	-3	0	15	-6	10	-11	10	11	15	-6	2	-20	Error (mV)						
		-16.61	-16.22	-15.96	-15.78	-15.78	-15.86	-15.89	-15.88	-15.87	-15.86	-15.85	-15.85	-15.86	-15.85	-15.85	Measured Value (mV)						
1.24 INTERCEPT (mV) 1191 SLOPE (mV/dB) 22.5 LIMITED IF OUTPUT (dBm)		-263	-177	-60	66	167	303	400	528	618	752	862	982	1072	1189	1282	Measured Value (mV)						
		11	-16	-12	2	-10	14	-2	13	-9	12	9	17	-6	-2	-21	Error (mV)						
		-16.69	-16.29	-16.05	-15.96	-15.85	-15.83	-15.84	-15.87	-15.88	-15.87	-15.88	-15.89	-15.90	-15.89	-15.89	Measured Value (mV)						
1.32 INTERCEPT (mV) 1155 SLOPE (mV/dB) 22.1 LIMITED IF OUTPUT (dBm)		-271	-196	-80	62	160	280	375	501	591	726	839	952	1039	1150	1243	Measured Value (mV)						
		12	-24	-18	13	0	10	-6	10	-11	13	16	18	-6	-5	-23	Error (mV)						
		-16.75	-16.44	-16.24	-16.20	-16.16	-16.12	-16.10	-16.10	-16.10	-16.09	-16.09	-16.10	-16.10	-16.09	-16.07	Measured Value (mV)						
1.35 INTERCEPT (mV) 1152 SLOPE (mV/dB) 22.2 LIMITED IF OUTPUT (dBm)		-273	-202	-88	43	155	278	373	497	587	721	832	949	1038	1148	1240	Measured Value (mV)						
		17	-23	-20	0	1	13	-3	10	-11	12	13	19	-3	-4	-23	Error (mV)						
		-16.77	-16.49	-16.25	-16.22	-16.23	-16.20	-16.18	-16.17	-16.16	-16.15	-16.14	-16.15	-16.14	-16.12	-16.11	Measured Value (mV)						
LINEARITY(-60 TO 0dBm)		± 1.13		dB																			
LINEARITY(-65 TO +5dBm)		± 1.34		dB																			
LIMITED IF OUTPUT MAX		-15.63		dBm																			
LIMITED IF OUTPUT MIN		-16.77		dBm																			
FREQUENCY (GHz)		0.60		0.68		0.76		0.84		0.92		1.00		1.08		1.16		1.24		1.32		1.35	
LOG SLOPE VARIATION WITH FREQUENCY (dBm)		0.8		0.5		0.5		0.4		0.0		0.2		0.3		0.3		0.4		0.4		-0.1	

LOG TRANSFER WITH FREQUENCY @ 25 °C
MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703875
TESTED BY: H. HAHN
DATE:14/Apr/2007



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



LOG TRANSFER WITH FREQUENCY @ +85 °C
 MODEL: SLVAC-06135M-A08-LA OPTION : SERIAL No. :PM703875
 TESTED BY: C. CHADWICK
 DATE: 14/Apr/2007



PLANAR MONOLITHICS INDUSTRIES
 7311-G GROVE ROAD, FREDERICK, MD 21704 USA
 TEL: 301-631-1579 FAX: 301-662-2029
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 EMAIL: SALES@PLANARMONOLITHICS.COM
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Frequency

0.60 INTERCEPT (mV) 1309
 SLOPE (mV/dB) 24.94
 LIMITED IF OUTPUT (dBm)

1.00 INTERCEPT (mV) 1158
 SLOPE (mV/dB) 23.23
 LIMITED IF OUTPUT (dBm)

1.35 INTERCEPT (mV) 1020
 SLOPE (mV/dB) 21.67
 LIMITED IF OUTPUT (dBm)

LINEARITY(-60 TO 0dBm) ± 1.00
 LINEARITY(-65 TO +5dBm) ± 1.67
 FREQUENCY FLATNESS ± 6.64

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	RF Input Power (dBm)
0.60 Measured Value (mV)	-271	-172	-66	49	166	290	427	545	675	807	925	1069	1192	1327	1443	
0.60 Error (mV)	42	16	-3	-13	-20	-21	-9	-15	-10	-3	-10	10	8	18	10	
0.60 Measured Value (mV)	-16.05	-15.68	-15.49	-15.41	-15.33	-15.27	-15.25	-15.24	-15.25	-15.26	-15.26	-15.27	-15.28	-15.30	-15.34	
1.00 Measured Value (mV)	-330	-236	-131	-3	107	229	325	466	554	703	816	945	1044	1165	1263	
1.00 Error (mV)	22	0	-11	1	-6	0	-20	5	-23	10	6	19	2	7	-11	
1.00 Measured Value (mV)	-16.46	-15.91	-15.60	-15.42	-15.38	-15.37	-15.36	-15.35	-15.35	-15.34	-15.34	-15.35	-15.34	-15.35	-15.37	
1.35 Measured Value (mV)	-369	-292	-172	-75	39	156	249	381	462	601	706	822	913	1018	1111	
1.35 Error (mV)	19	-12	0	-12	-6	3	-13	11	-16	14	11	19	1	-2	-17	
1.35 Measured Value (mV)	-16.88	-16.24	-15.80	-15.67	-15.64	-15.65	-15.65	-15.63	-15.63	-15.62	-15.61	-15.60	-15.58	-15.55	-15.51	

