



**SUMMARY TEST DATA  
ON**

**SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER**

<b>CUSTOMER:</b> <u>GECS</u>	<b>JOB NO:</b> <u>P312037N</u>
<b>MODEL NO:</b> <u>SDLVA-0060-80</u>	<b>TESTED BY:</b> <u>R. AFABLE</u>
<b>OPTION NO:</b> _____	<b>TEMPERATURE:</b> <u>ROOM</u>
<b>SERIAL NO:</b> <u>PM407505</u>	<b>DATE:</b> <u>7/27/04</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE:	55 MHz TO 65 MHz	55 MHz TO 65 MHz	
2	INPUT VSWR:	1.5:1 (MAXIMUM) PLOTS ATTACHED	2.58:1 @ 55MHz 1.09:1 @ 60MHz 2.17:1 @ 65MHz	
3	LOGGING RANGE:	-80dBm TO 0 dBm PLOTS ATTACHED	-80dBm TO 0 dBm	
5	LOG SLOPE:	25mV/dB NOMINAL	22.9 mV/dB 23.0 mV/dB	
6	LOG LINEARITY @ -80 TO 0 dBm:	± 1.5 dB MAX	±1.35 dB	
7	RISE TIME: (10% TO 90% POINTS)	20 nsec (MAXIMUM)	68 nS	
8	FALL TIME: (90% TO 10% POINTS)	30 nsec (MAXIMUM)	102 nS	
9	LIMITED IF OUTPUT	0 dBm (TYPICAL)	-0.74 dBm TO -0.11 dBm	
10	DC POWER @ +15V NO LOAD	100 mA (MAXIMUM)	85 mA	
11	DC POWER @ -15V NO LOAD	190 mA (MAXIMUM)	28 mA	

NOTE: Any additional test data on back

TESTED ON: GIGATRONICS 12000, AGILENT E4407B

QA/QC APPROVAL: \_\_\_\_\_ DATED: \_\_\_\_\_



-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0		Rf input power (dbm)
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FREQUENCY	55 MHz	118	247	378	506	620	738	844	959	1073	1187	1299	1412	1523	1640	1744	1861	1973	Measured Values (mv)
SLOPE	22.9 mv/db	-31	-16	0	13	13	16	7	8	7	6	4	2	-2	1	-10	-8	-10	Error (mv)
INTERCEPT	1983 mv																		

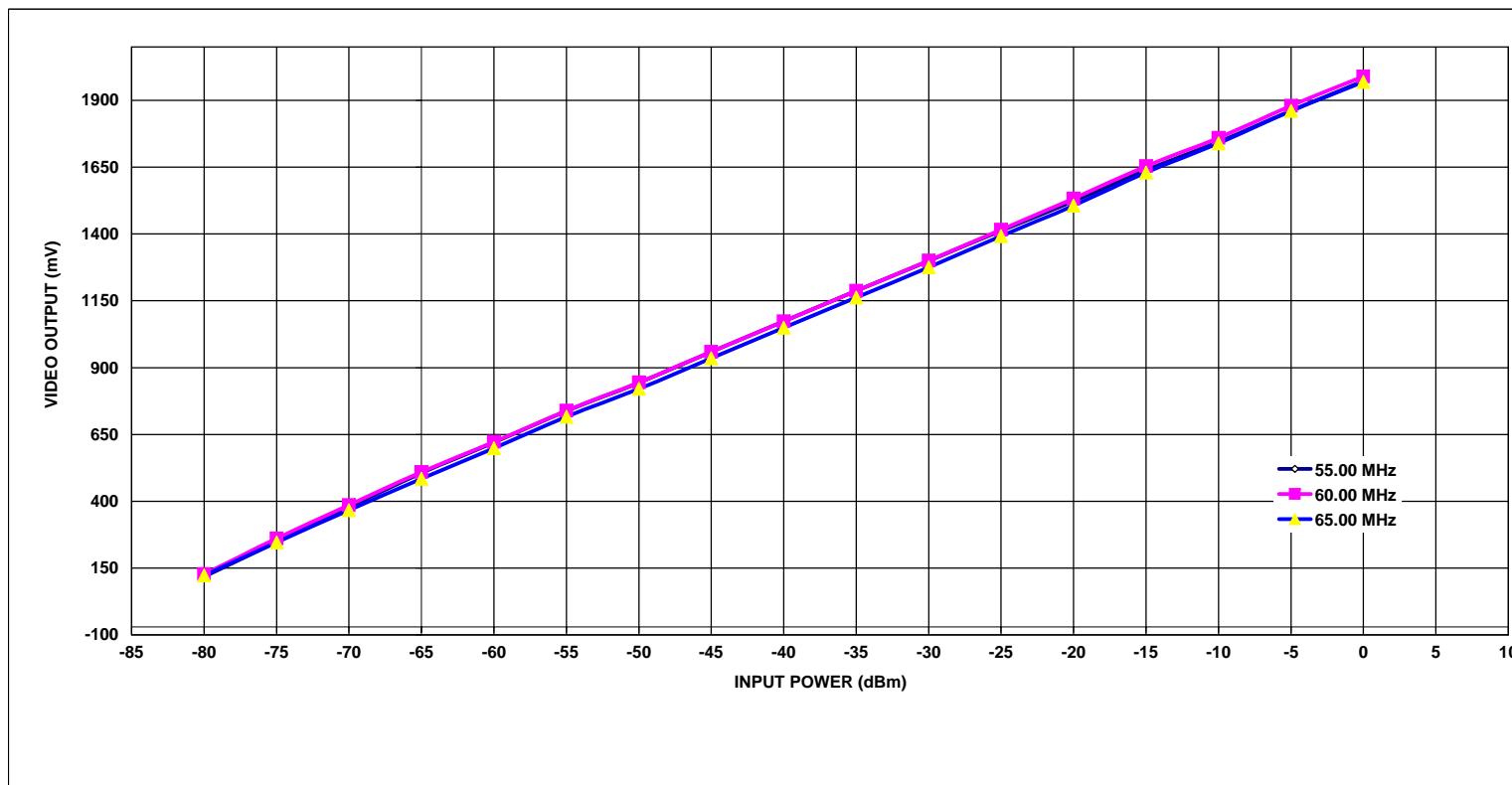
FREQUENCY	60 MHz	127	261	386	509	622	739	845	959	1073	1187	1300	1416	1533	1654	1760	1880	1989	Measured Values (mv)
SLOPE	23.0 mv/db	-24	-5	4	12	10	12	3	1	0	-1	-3	-3	-1	5	-4	0	-6	Error (mv)
INTERCEPT	1995 mv																		

FREQUENCY	65 MHz	123	246	366	484	599	716	821	935	1049	1162	1275	1392	1506	1630	1739	1861	1969	Measured Values (mv)
SLOPE	23.0 mv/db	-10	-2	3	7	7	9	-1	-2	-2	-4	-6	-4	-4	5	-1	6	-1	Error (mv)
INTERCEPT	1970 mv																		

IF OUTPUT	55 MHz	-0.74	-0.25	-0.17	-0.15	-0.15	-0.15	-0.15	-0.15	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.13	-0.13	-0.11	
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IF OUTPUT	60 MHz	-0.53	-0.24	-0.18	-0.16	-0.16	-0.15	-0.15	-0.15	-0.15	-0.15	-0.16	-0.15	-0.16	-0.16	-0.15	-0.14	-0.13	
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IF OUTPUT	65 MHz	-0.55	-0.28	-0.21	-0.19	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.18	-0.19	-0.19	-0.19	-0.18	-0.16	
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**SUMMARY TEST DATA  
ON**
**SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER**

<b>CUSTOMER:</b> <u>GECS</u>	<b>JOB NO:</b> <u>P312037N</u>
<b>MODEL NO:</b> <u>SDLVA-0060-80</u>	<b>TESTED BY:</b> <u>R. AFABLE</u>
<b>OPTION NO:</b> _____	<b>TEMPERATURE:</b> <u>ROOM</u>
<b>SERIAL NO:</b> <u>PM407506</u>	<b>DATE:</b> <u>7/27/04</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE:	55 MHz TO 65 MHz	55 MHz TO 65 MHz	
2	INPUT VSWR:	1.5:1 (MAXIMUM) PLOTS ATTACHED	2.31:1 @ 55MHz 1.06:1 @ 60MHz 2.37:1 @ 65MHz	
3	LOGGING RANGE:	-80dBm TO 0 dBm PLOTS ATTACHED	-80dBm TO 0 dBm	
5	LOG SLOPE:	25mV/dB NOMINAL	22.7 mV/dB 22.9 mV/dB	
6	LOG LINEARITY @ -80 TO 0 dBm:	± 1.5 dB MAX	±0.61 dB	
7	RISE TIME: (10% TO 90% POINTS)	20 nsec (MAXIMUM)	68 nS	
8	FALL TIME: (90% TO 10% POINTS)	30 nsec (MAXIMUM)	100 nS	
9	LIMITED IF OUTPUT	0 dBm (TYPICAL)	-0.73 dBm TO -0.09 dBm	
10	DC POWER @ +15V NO LOAD	100 mA (MAXIMUM)	85 mA	
11	DC POWER @ -15V NO LOAD	190 mA (MAXIMUM)	27 mA	

NOTE: Any additional test data on back

TESTED ON: GIGATRONICS 12000, AGILENT E4407B

QA/QC APPROVAL: \_\_\_\_\_ DATED: \_\_\_\_\_



-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0		Rf input power (dbm)
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FREQUENCY	55 MHz	146	271	390	509	617	735	840	957	1071	1185	1298	1412	1523	1642	1747	1865	1978	Measured Values (mv)
SLOPE	22.8 mv/db	-14	-2	3	8	2	7	-2	1	1	1	1	1	-2	3	-5	-1	-2	Error (mv)
INTERCEPT	1980 mv																		

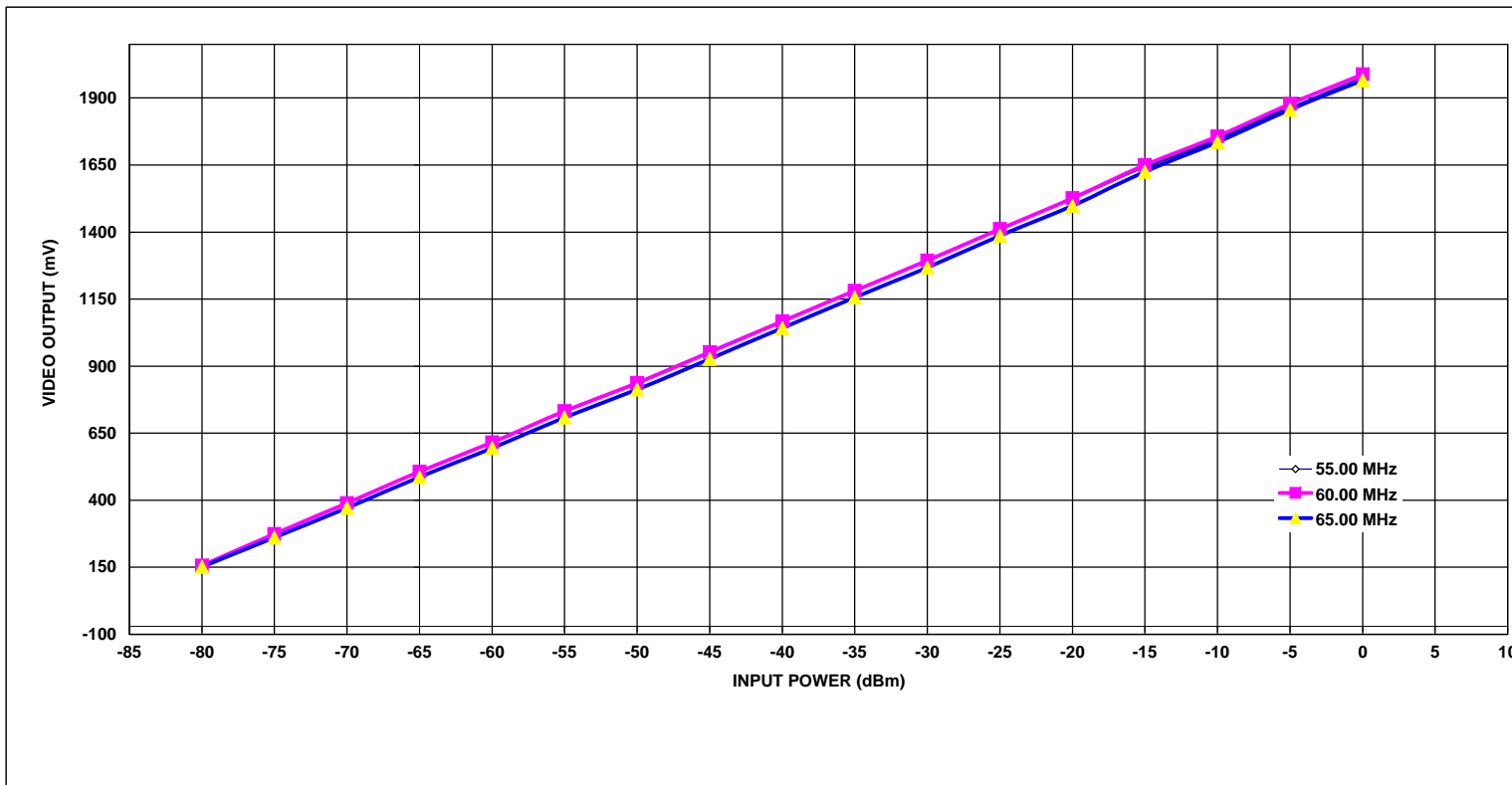
FREQUENCY	60 MHz	156	274	389	507	616	732	837	952	1067	1181	1294	1411	1527	1650	1757	1878	1988	Measured Values (mv)
SLOPE	22.9 mv/db	-1	3	3	7	2	3	-6	-5	-5	-5	-6	-3	-2	7	0	6	2	Error (mv)
INTERCEPT	1986 mv																		

FREQUENCY	65 MHz	152	261	371	487	594	708	813	927	1042	1156	1268	1386	1498	1625	1735	1857	1966	Measured Values (mv)
SLOPE	22.7 mv/db	11	6	3	5	-1	-1	-10	-9	-8	-7	-9	-5	-6	7	4	12	7	Error (mv)
INTERCEPT	1959 mv																		

IF OUTPUT	55 MHz	-0.69	-0.35	-0.24	-0.18	-0.15	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.15	-0.15	-0.14	-0.14	-0.13	-0.12	
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IF OUTPUT	60 MHz	-0.68	-0.35	-0.23	-0.17	-0.14	-0.13	-0.12	-0.12	-0.12	-0.13	-0.13	-0.13	-0.12	-0.12	-0.12	-0.11	-0.09	
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IF OUTPUT	65 MHz	-0.73	-0.39	-0.27	-0.20	-0.16	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.13	-0.13	-0.12	-0.10	
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**SUMMARY TEST DATA  
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**SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER**

<b>CUSTOMER:</b> <u>GECS</u>	<b>JOB NO:</b> <u>P312037N</u>
<b>MODEL NO:</b> <u>SDLVA-0060-80</u>	<b>TESTED BY:</b> <u>R. AFABLE</u>
<b>OPTION NO:</b> _____	<b>TEMPERATURE:</b> <u>ROOM</u>
<b>SERIAL NO:</b> <u>PM407507</u>	<b>DATE:</b> <u>7/27/04</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE:	55 MHz TO 65 MHz	55 MHz TO 65 MHz	
2	INPUT VSWR:	1.5:1 (MAXIMUM) PLOTS ATTACHED	2.29:1 @ 55MHz 1.11:1 @ 60MHz 2.24:1 @ 65MHz	
3	LOGGING RANGE:	-80dBm TO 0 dBm PLOTS ATTACHED	-80dBm TO 0 dBm	
5	LOG SLOPE:	25mV/dB NOMINAL	22.6 mV/dB 22.9 mV/dB	
6	LOG LINEARITY @ -80 TO 0 dBm:	± 1.5 dB MAX	±1.40 dB	
7	RISE TIME: (10% TO 90% POINTS)	20 nsec (MAXIMUM)	68 nS	
8	FALL TIME: (90% TO 10% POINTS)	30 nsec (MAXIMUM)	99 nS	
9	LIMITED IF OUTPUT	0 dBm (TYPICAL)	-0.46 dBm TO 0.07 dBm	
10	DC POWER @ +15V NO LOAD	100 mA (MAXIMUM)	86 mA	
11	DC POWER @ -15V NO LOAD	190 mA (MAXIMUM)	28 mA	

NOTE: Any additional test data on back

TESTED ON: GIGATRONICS 12000, AGILENT E4407B

QA/QC APPROVAL: \_\_\_\_\_ DATED: \_\_\_\_\_



-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0		Rf input power (dbm)
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FREQUENCY	55 MHz	125	265	391	514	625	742	848	964	1079	1194	1306	1420	1531	1648	1753	1872	1985	Measured Values (mv)
SLOPE	22.9 mv/db	-32	-7	5	13	9	12	3	4	5	5	2	2	-2	1	-9	-5	-6	Error (mv)
INTERCEPT	1991 mv																		

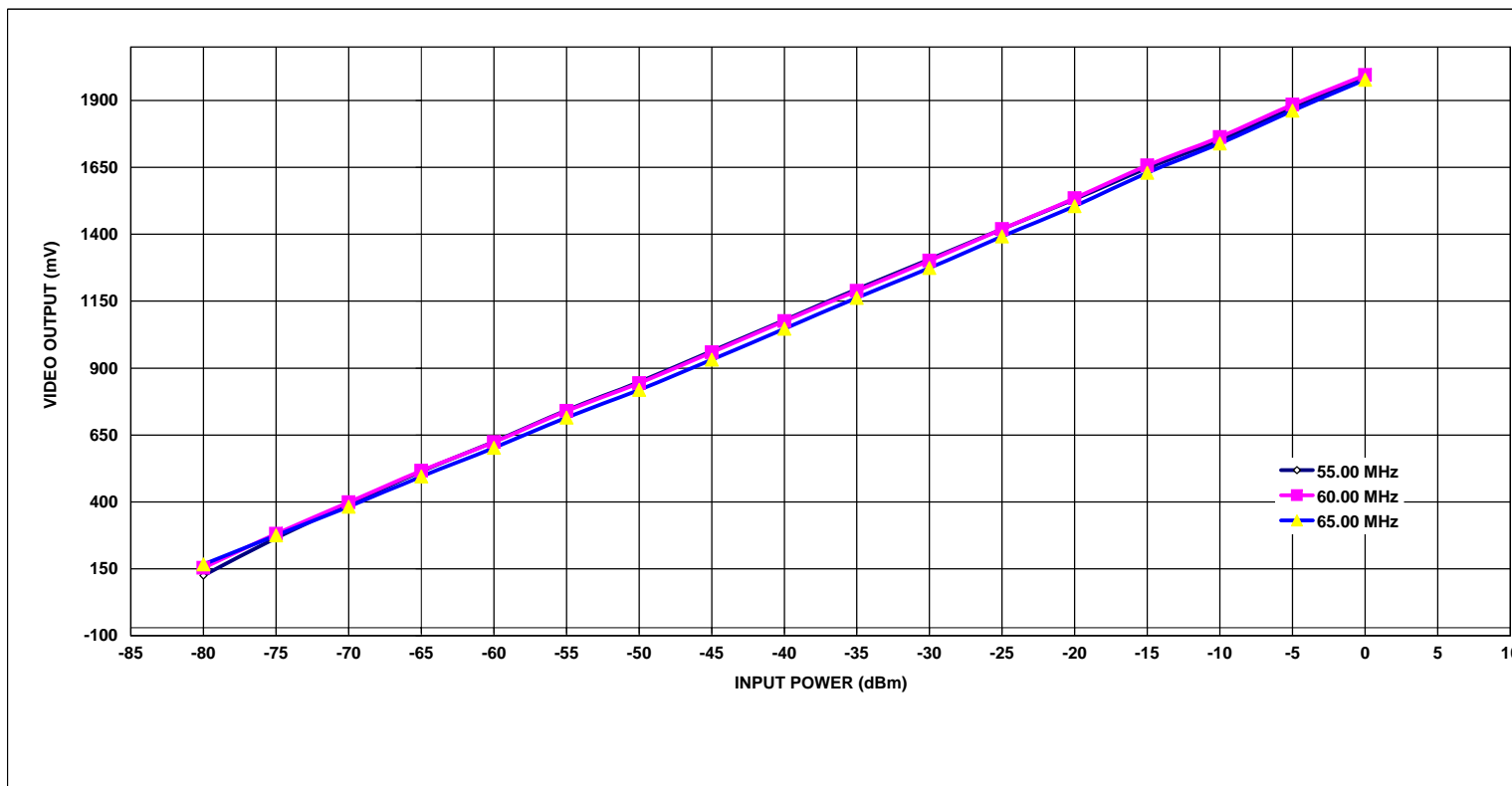
FREQUENCY	60 MHz	154	281	398	516	624	740	844	959	1075	1189	1302	1419	1535	1657	1763	1885	1995	Measured Values (mv)
SLOPE	22.9 mv/db	-9	3	6	9	3	5	-6	-5	-4	-4	-5	-3	-1	6	-2	6	1	Error (mv)
INTERCEPT	1994 mv																		

FREQUENCY	65 MHz	166	275	382	495	602	715	819	932	1047	1162	1274	1392	1505	1630	1739	1862	1977	Measured Values (mv)
SLOPE	22.6 mv/db	15	10	4	4	-2	-3	-12	-12	-10	-9	-10	-5	-5	7	2	12	14	Error (mv)
INTERCEPT	1963 mv																		

IF OUTPUT	55 MHz	-0.46	-0.08	-0.01	0.00	0.00	0.00	0.02	0.02	0.03	0.02	0.03	0.03	0.03	0.03	0.04	0.05	0.07	
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IF OUTPUT	60 MHz	-0.31	-0.07	-0.03	0.00	0.00	0.06	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.03	0.04	0.05	
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IF OUTPUT	65 MHz	-0.37	-0.18	-0.12	-0.09	-0.09	-0.08	-0.07	-0.06	-0.06	-0.04	-0.04	-0.04	-0.04	-0.02	-0.02	-0.01	0.00	
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**SUMMARY TEST DATA  
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**SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER**

<b>CUSTOMER:</b> <u>GECS</u>	<b>JOB NO:</b> <u>P312037N</u>
<b>MODEL NO:</b> <u>SDLVA-0060-80</u>	<b>TESTED BY:</b> <u>R. AFABLE</u>
<b>OPTION NO:</b> _____	<b>TEMPERATURE:</b> <u>ROOM</u>
<b>SERIAL NO:</b> <u>PM407508</u>	<b>DATE:</b> <u>7/27/04</u>

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE:	55 MHz TO 65 MHz	55 MHz TO 65 MHz	
2	INPUT VSWR:	1.5:1 (MAXIMUM) PLOTS ATTACHED	2.57:1 @ 55MHz 1.07:1 @ 60MHz 2.19:1 @ 65MHz	
3	LOGGING RANGE:	-80dBm TO 0 dBm PLOTS ATTACHED	-80dBm TO 0 dBm	
5	LOG SLOPE:	25mV/dB NOMINAL	22.6 mV/dB 22.7 mV/dB	
6	LOG LINEARITY @ -80 TO 0 dBm:	± 1.5 dB MAX	±1.02 dB	
7	RISE TIME: (10% TO 90% POINTS)	20 nsec (MAXIMUM)	68 nS	
8	FALL TIME: (90% TO 10% POINTS)	30 nsec (MAXIMUM)	103 nS	
9	LIMITED IF OUTPUT	0 dBm (TYPICAL)	-2.01 dBm TO -0.36 dBm	
10	DC POWER @ +15V NO LOAD	100 mA (MAXIMUM)	86 mA	
11	DC POWER @ -15V NO LOAD	190 mA (MAXIMUM)	28 mA	

NOTE: Any additional test data on back

TESTED ON: GIGATRONICS 12000, AGILENT E4407B

QA/QC APPROVAL: \_\_\_\_\_ DATED: \_\_\_\_\_



-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0		Rf input power (dbm)
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FREQUENCY	55 MHz	180	272	397	515	627	742	849	963	1079	1192	1306	1418	1530	1645	1751	1869	1982	Measured Values (mv)
SLOPE	22.6 mv/db	7	-14	-2	3	2	4	-2	-1	2	1	2	1	0	2	-5	0	0	Error (mv)
INTERCEPT	1982 mv																		

FREQUENCY	60 MHz	192	295	409	521	630	743	849	963	1078	1192	1307	1422	1540	1659	1768	1887	1998	Measured Values (mv)
SLOPE	22.7 mv/db	14	3	4	2	-2	-2	-10	-9	-7	-7	-5	-4	1	7	2	8	6	Error (mv)
INTERCEPT	1992 mv																		

FREQUENCY	65 MHz	181	273	387	498	608	720	827	939	1055	1167	1282	1398	1514	1636	1748	1868	1978	Measured Values (mv)
SLOPE	22.6 mv/db	23	2	3	1	-3	-4	-10	-11	-8	-10	-8	-5	-2	6	5	12	9	Error (mv)
INTERCEPT	1969 mv																		

IF OUTPUT	55 MHz	-2.01	-0.67	-0.55	-0.50	-0.46	-0.45	-0.44	-0.43	-0.43	-0.43	-0.43	-0.39	-0.39	-0.39	-0.38	-0.38	-0.36	
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IF OUTPUT	60 MHz	-1.26	-0.59	-0.51	-0.46	-0.43	-0.60	-0.54	-0.53	-0.52	-0.52	-0.52	-0.52	-0.52	-0.53	-0.52	-0.51	-0.50	
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IF OUTPUT	65 MHz	-1.61	-0.61	-0.51	-0.62	-0.58	-0.55	-0.54	-0.53	-0.52	-0.47	-0.44	-0.44	-0.44	-0.43	-0.45	-0.54	-0.52	
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