



PLAZA MONOLITHICS INDUSTRIES
 73117 CROVE ROAD, FREDERICK MD. 21701
 TEL: (301) 661-1111 FAX: (301) 662-4338

JOB NO: 01045P

SUMMARY TEST DATA
 ON

SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER--SDLVA

CUSTOMER: _____
 JOB NO: _____
 MODEL NO: SDLVAC-0120-70LM OPT: 07103
 SERIAL NO: PM101077 #1

TESTED BY: R. Able
 DATE: 4/28/01

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	0.7 TO 1.3 GHz (min)	Pass	✓
2	DYNAMIC RANGE	77 dB (min)	Pass	✓
3	LOG LINEARITY -75 to +3 dBm	±1.5 dB (max)	See Plot	✓
	LOG LINEARITY 0 to +85°C	±2.5 dB (max)		
4	LOG SLOPE	SEE PLOTS		✓
5	TSS (TANGENTIAL SENSITIVITY)	- 76 dBm (max)	<76 dBm	✓
6	VSWR (INPUT)	1.8:1 (max)	< 1.8:1	✓
7	LIMITED OUTPUT	- 20 dBm (min)	-16.54 dBm	✓
8	RISE TIME	25 ns (max)	< 25 ns	✓
9	FALL TIME	30 ns (max)	< 30 ns	✓
10	CURRENT DRAW + 5 Volts	115 mA (max)	93 mA	✓
11	CURRENT DRAW - 5 Volts	145 mA (max)	130 mA	✓

PRODUCTION MANAGER APPROVAL: Raymond Hulley DATED: 5/1/01
 QA/QC APPROVAL: Donald Harmon DATED: 5/1/01

CUSTOMER:

JOB NO: 01045P

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101077

DATE: 04/28/01

RF POWER IN (dbm)	+25 DEGREES C VIDEO OUT (VOLTS)
3	2
2	1.99
1	1.96
0	1.933
-5	1.84
-10	1.714
-15	1.625
-20	1.474
-25	1.386
-30	1.243
-35	1.154
-40	1.028
-45	0.928
-50	0.814
-55	0.728
-60	0.595
-65	0.519
-70	0.408
-72	0.358
-73	0.335
-74	0.324
-75	0.313
DC POWER @ + 5 VOLTS	93
DC POWER @ - 5 VOLTS	130
LOG SLOPE	
BEST FIT STRAIGHT LINE	21.9206
LOG ERROR* IN dB	1.02
LOG ERROR* IN dB	-1.40

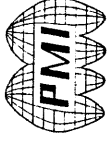
CUSTOMER: XXXXXXXXXXXX

JOB NO: 01045P

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101077

DATE: 04/28/01



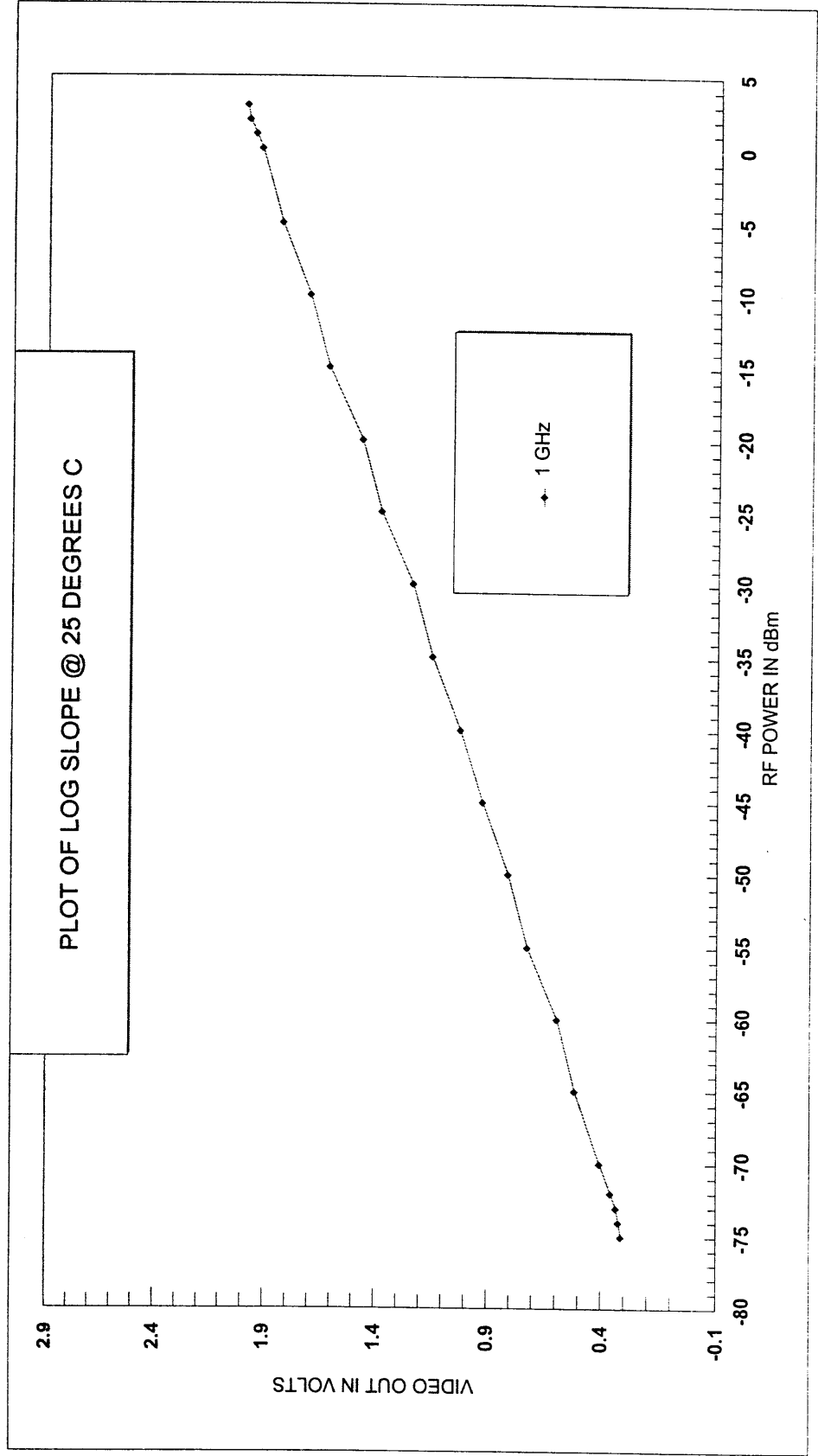
PLANAR MONOLITHICS INDUSTRIES, INC.

7316 GROVE ROAD, FREDERICK, MD 21704 • USA

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WEBSITE: www.AMWAVE.com

E-MAIL: AMCPMISALES@aol.com





JOB NO: 01045P

SUMMARY TEST DATA
ON

SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER--SDLVA

CUSTOMER: _____
 JOB NO: _____
 MODEL NO: SDLVAC-0120-70LM, OPT: 07103
 SERIAL NO: PM 10107B #2

TESTED BY: R. Able
 DATE: 4/28/01

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	0.7 TO 1.3 GHz (min)	Pass	✓
2	DYNAMIC RANGE	77 dB (min)	Pass	✓
3	LOG LINEARITY -75 to +3 dBm	±1.5 dB (max)	See Plot	✓
	LOG LINEARITY 0 to +85°C	±2.5 dB (max)		
4	LOG SLOPE	SEE PLOTS		✓
5	TSS (TANGENTIAL SENSITIVITY)	- 76 dBm (max)	< 76 dBm	✓
6	VSWR (INPUT)	1.8:1 (max)	< 1.8:1	✓
7	LIMITED OUTPUT	- 20 dBm (min)	-16.40 dBm	✓
8	RISE TIME	25 ns (max)	< 25 ns	✓
9	FALL TIME	30 ns (max)	< 30 ns	✓
10	CURRENT DRAW + 5 Volts	115 mA (max)	85 mA	✓
11	CURRENT DRAW - 5 Volts	145 mA (max)	131 mA	✓

PRODUCTION MANAGER APPROVAL: Raymond Paulley

DATED: 5/1/01

QA/QC APPROVAL: 04 Donald Harmon

DATED: 5/1/01

CUSTOMER:

JOB NO: 011043R

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101078

DATE: 04/28/01

RF POWER IN (dBm)	+25 DEGREES C VIDEO OUT (VOLTS)
3	1.98
2	1.965
1	1.949
0	1.933
-5	1.787
-10	1.667
-15	1.558
-20	1.424
-25	1.328
-30	1.22
-35	1.108
-40	0.975
-45	0.875
-50	0.76
-55	0.662
-60	0.539
-65	0.446
-70	0.337
-72	0.304
-73	0.29
-74	0.277
-75	0.267
DC POWER @ + 5 VOLTS	85
DC POWER @ - 5 VOLTS	131
LOG SLOPE	
BEST FIT STRAIGHT LINE	22.3192
LOG ERROR* IN dB	1.49
LOG ERROR* IN dB	-1.44

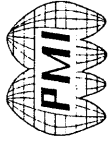
CUSTOMER: I

JOB NO: C

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101078

DATE: 04/28/01



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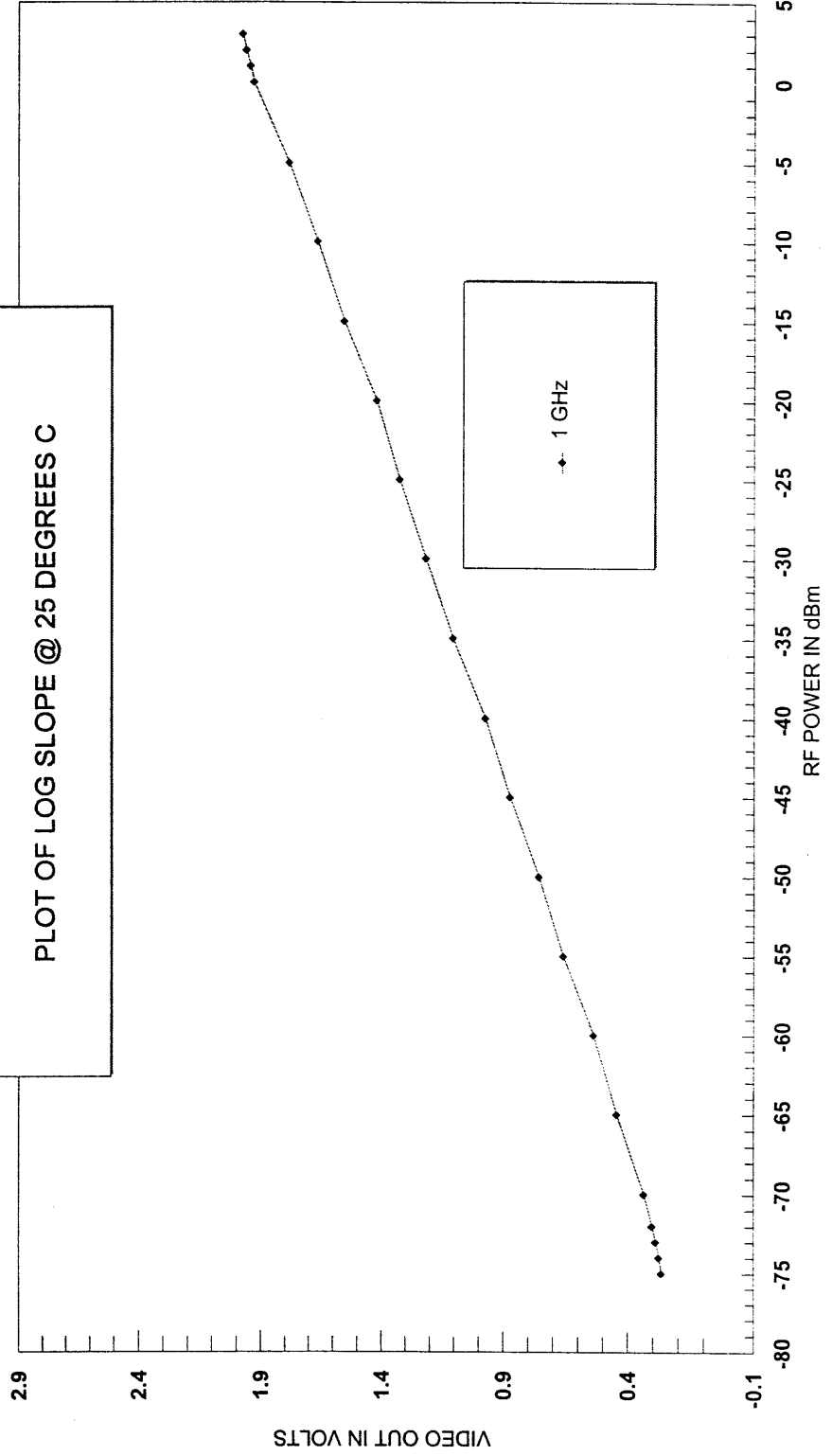
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PLOT OF LOG SLOPE @ 25 DEGREES C





JOB NO: 01045P

SUMMARY TEST DATA
ON

SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER--SDLVA

CUSTOMER:
JOB NO:

TESTED BY: R. Able

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

DATE: 4/28/01

SERIAL NO: PM101079

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	0.7 TO 1.3 GHz (min)	Pass	✓
2	DYNAMIC RANGE	77 dB (min)	Pass	✓
3	LOG LINEARITY -75 to +3 dBm	±1.5 dB (max)	See Plot	✓
	LOG LINEARITY 0 to +85°C	±2.5 dB (max)		
4	LOG SLOPE	SEE PLOTS		✓
5	TSS (TANGENTIAL SENSITIVITY)	-76 dBm (max)	<76 dBm	✓
6	VSWR (INPUT)	1.8:1 (max)	< 1.8:1	✓
7	LIMITED OUTPUT	-20 dBm (min)	-16.17 dBm	✓
8	RISE TIME	25 ns (max)	< 25 ns	✓
9	FALL TIME	30 ns (max)	< 30 ns	✓
10	CURRENT DRAW + 5 Volts	115 mA (max)	91 mA	✓
11	CURRENT DRAW - 5 Volts	145 mA (max)	129 mA	✓

PRODUCTION MANAGER APPROVAL: Raymond Purdy DATED: 5/1/01

QA/QC APPROVAL: 09 Donald Harmon DATED: 5/1/01

CUSTOMER:

JOB NO: 01043F

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101079

DATE: 04/28/01

RF POWER IN (dBm)	+25 DEGREES C VIDEO OUT (VOLTS)
3	1.946
2	1.945
1	1.937
0	1.931
-5	1.836
-10	1.71
-15	1.621
-20	1.47
-25	1.381
-30	1.236
-35	1.147
-40	1.016
-45	0.916
-50	0.801
-55	0.71
-60	0.575
-65	0.49
-70	0.381
-72	0.346
-73	0.332
-74	0.318
-75	0.3
DC POWER @ + 5 VOLTS	91
DC POWER @ - 5 VOLTS	129
LOG SLOPE	
BEST FIT STRAIGHT LINE	21.8421
LOG ERROR* IN dB	1.60
LOG ERROR* IN dB	-1.52

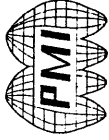
CUSTOMER: |

JOB NO: |

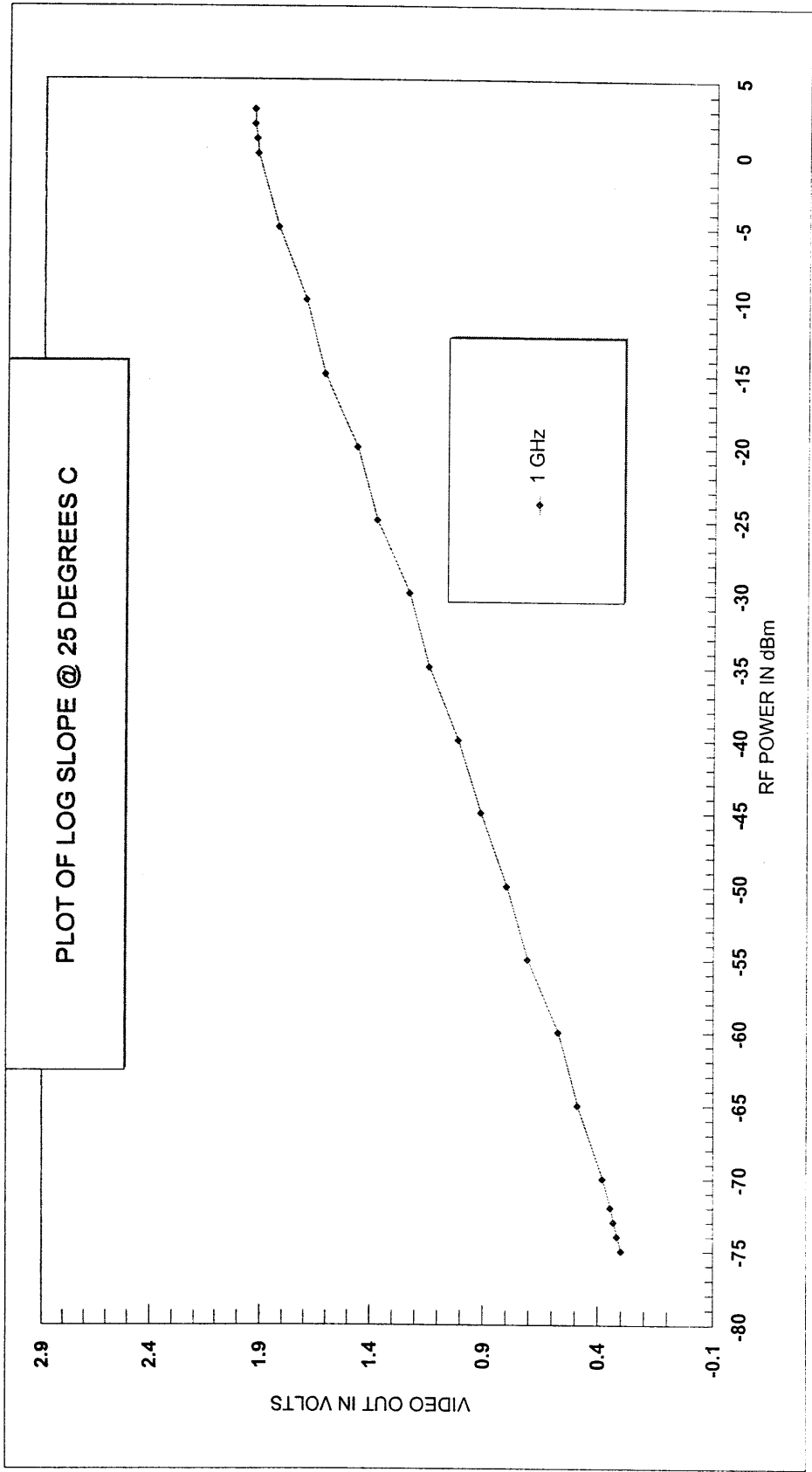
MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101079

DATE: 04/28/01



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JOB NO: 01045P

SUMMARY TEST DATA
ON
SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER--SDLVA

CUSTOMER: _____
JOB NO: _____
MODEL NO: SDLVAC-0120-70LM OPT: 07103
SERIAL NO: PM101080 #4

TESTED BY: R. A. Able
DATE: 4/28/01

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	0.7 TO 1.3 GHz (min)	Pass	✓
2	DYNAMIC RANGE	77 dB (min)	Pass	✓
3	LOG LINEARITY -75 to +3 dBm	±1.5 dB (max)	See Plot	✓
	LOG LINEARITY 0 to +85°C	±2.5 dB (max)		
4	LOG SLOPE	SEE PLOTS		✓
5	TSS (TANGENTIAL SENSITIVITY)	- 76 dBm (max)	<76 dBm	✓
6	VSWR (INPUT)	1.8:1 (max)	< 1.8:1	✓
7	LIMITED OUTPUT	- 20 dBm (min)	-16.05 dBm	✓
8	RISE TIME	25 ns (max)	< 25 ns	✓
9	FALL TIME	30 ns (max)	< 30 ns	✓
10	CURRENT DRAW + 5 Volts	115 mA (max)	92 mA	✓
11	CURRENT DRAW - 5 Volts	145 mA (max)	129 mA	✓

PRODUCTION MANAGER APPROVAL: Raymond Purley DATED: 5/1/01
QA/QC APPROVAL: 09 Donald Harmon DATED: 5/1/01

CUSTOMER:

JOB NO:

MODEL NO: SDLVAC-0120-70LM_OPT: 07103

SERIAL NO: PM101080

DATE: 04/28/01

RF POWER IN (dBm)	+25 DEGREES C VIDEO OUT (VOLTS)
3	1.942
2	1.939
1	1.93
0	1.925
-5	1.833
-10	1.706
-15	1.618
-20	1.468
-25	1.38
-30	1.239
-35	1.149
-40	1.022
-45	0.92
-50	0.804
-55	0.716
-60	0.583
-65	0.504
-70	0.392
-72	0.358
-73	0.344
-74	0.331
-75	0.319
DC POWER @ + 5 VOLTS	92
DC POWER @ - 5 VOLTS	129
LOG SLOPE	
BEST FIT STRAIGHT LINE	21.5845
LOG ERROR* IN dB	1.58
LOG ERROR* IN dB	-1.41

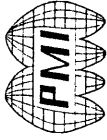
CUSTOMER:

JOB NO:

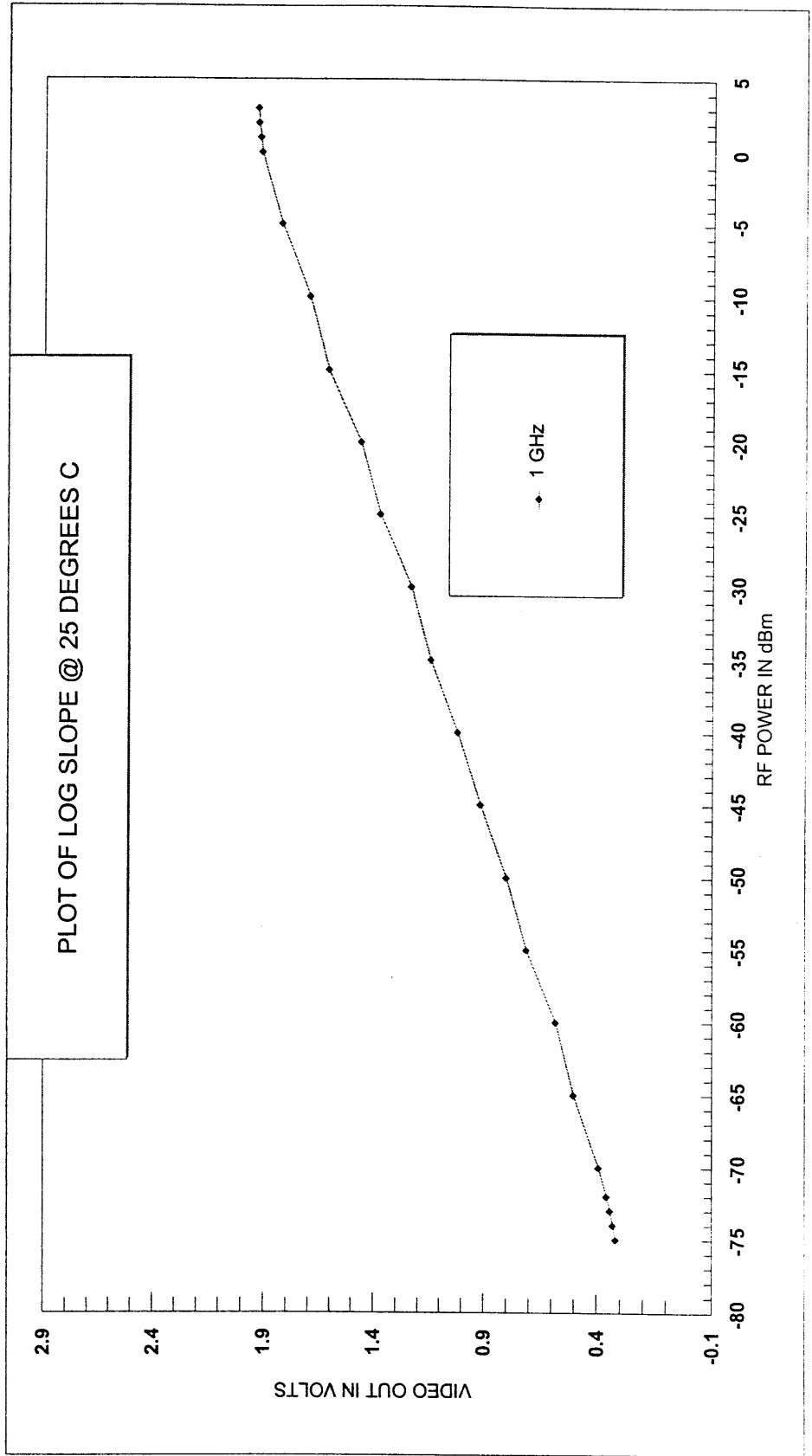
MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101080

DATE: 04/28/01



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JOB NO: 01045P

SUMMARY TEST DATA
ON
SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER--SDLVA

CUSTOMER: _____
JOB NO: _____
MODEL NO: SDLVAC-0120-70LM, OPT: 07103
SERIAL NO: PM101081 #5

TESTED BY: R. Able
DATE: 4/28/01

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	FREQUENCY RANGE	0.7 TO 1.3 GHz (min)	Pass	✓
2	DYNAMIC RANGE	77 dB (min)	Pass	✓
3	LOG LINEARITY -75 to +3 dBm	±1.5 dB (max)	See Plot	✓
	LOG LINEARITY 0 to +85°C	±2.5 dB (max)		
4	LOG SLOPE	SEE PLOTS		✓
5	TSS (TANGENTIAL SENSITIVITY)	- 76 dBm (max)	<76 dBm	✓
6	VSWR (INPUT)	1.8:1 (max)	< 1.8:1	✓
7	LIMITED OUTPUT	- 20 dBm (min)	-16.12 dBm	✓
8	RISE TIME	25 ns (max)	< 25 ns	✓
9	FALL TIME	30 ns (max)	< 30 ns	✓
10	CURRENT DRAW + 5 Volts	115 mA (max)	91 mA	✓
11	CURRENT DRAW - 5 Volts	145 mA (max)	128 mA	✓

PRODUCTION MANAGER APPROVAL: Raymond Paulley DATED: 5/1/01
QA/QC APPROVAL: Donald Harmer DATED: 5/1/01

CUSTOMER:

JOB NO: 010701

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101081

DATE: 04/28/01

RF POWER IN (dBm)	+25 DEGREES C VIDEO OUT (VOLTS)
3	1.949
2	1.94
1	1.937
0	1.933
-5	1.834
-10	1.71
-15	1.621
-20	1.47
-25	1.382
-30	1.238
-35	1.148
-40	1.02
-45	0.92
-50	0.804
-55	0.715
-60	0.581
-65	0.502
-70	0.39
-72	0.356
-73	0.34
-74	0.327
-75	0.315
DC POWER @ + 5 VOLTS	91
DC POWER @ - 5 VOLTS	128
LOG SLOPE	
BEST FIT STRAIGHT LINE	21.6931
LOG ERROR* IN dB	1.58
LOG ERROR* IN dB	-1.37

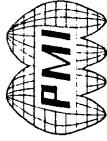
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JOB NO: 61274

MODEL NO: SDLVAC-0120-70LM, OPT: 07103

SERIAL NO: PM101081

DATE: 04/28/01



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