



PLANAR MONOLITHICS INDUSTRIES
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SUMMARY TEST DATA
ON

SUCCESSIVE DETECTION LOG VIDEO AMPLIFIER (SDLVA)

CUSTOMER: _____ JOB NO: P501001X-2E
 MODEL NO: SDLVA-2020-70 TESTED BY: Loc Chau 32
 OPTION NO: 218,A03,A07-50 TEMPERATURE: 0°C TO +60°C
 SERIAL NO: PM501049 DATE: 03/07/2005

TEST ITEM NO:	PARAMETERS	SPECIFIED VALUE	MEASURED VALUE	REMARKS QA/QC
1	INPUT VSWR (2 - 18 GHz)	3.0:1 (MAX)	1.87:1	✓
2	TYPICAL OUTPUT VOLTAGE @ -65 dBm to +5 dBm	PLOT ATTACHED	0.156 VDC TO 1.723 VDC	✓
4	TSS (2 - 18 GHz)	-65 dBm (MIN)	-67 dBm	✓
4	LOG SLOPE (±10% TOL)	20 mV/dB	20.0 mV/dB TO 20.8 mV/dB	✓
5	LOG LINEARITY @ -65 dBm TO +5 dBm	±1.75 dB (MAX)	±0.95 dB	✓
6	FREQUENCY FLATNESS (2 - 18 GHz)	±2.0 dB (MAX)	±1.23 dB	✓
7	RECOVERY TIME (MAX) -65 to +5 dBm	200 nSec	200 nS	✓
8	OUTPUT STABILITY (0° C to +60°C)	±1.75 dB (MAX)	±0.35 dB	✓
9	RISE TIME (10% TO 90%POINTS)	20 nSec (MAX)	18 nS	✓
10	VIDEO LOAD	50 OHM	50 OHM	✓
11	LIMITED RF OUTPUT	+10 dBm ±2.5dBm	+10 dBm	✓
12	DC POWER @ +15 V	600 mA (MAX)	540 mA	✓
13	DC POWER @ -15 V	200 mA (MAX)	125 mA	✓

QA / QC APPROVAL: *[Signature]*

DATED: 3/8/05



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 ISO 9001:2000 CERTIFIED

SDLVA-2020-70 S/N: DL501049
 LOG TRANSFER WITH FREQUENCY 03/07/05 +25 C

FREQUENCY	2 GHz	6 GHz	10 GHz	14 GHz	18 GHz
SLOPE	20.0	20.3	20.7	20.3	20.5
INTERCEPT	1475.39	1487.52	1507.35	1493.77	1469.32

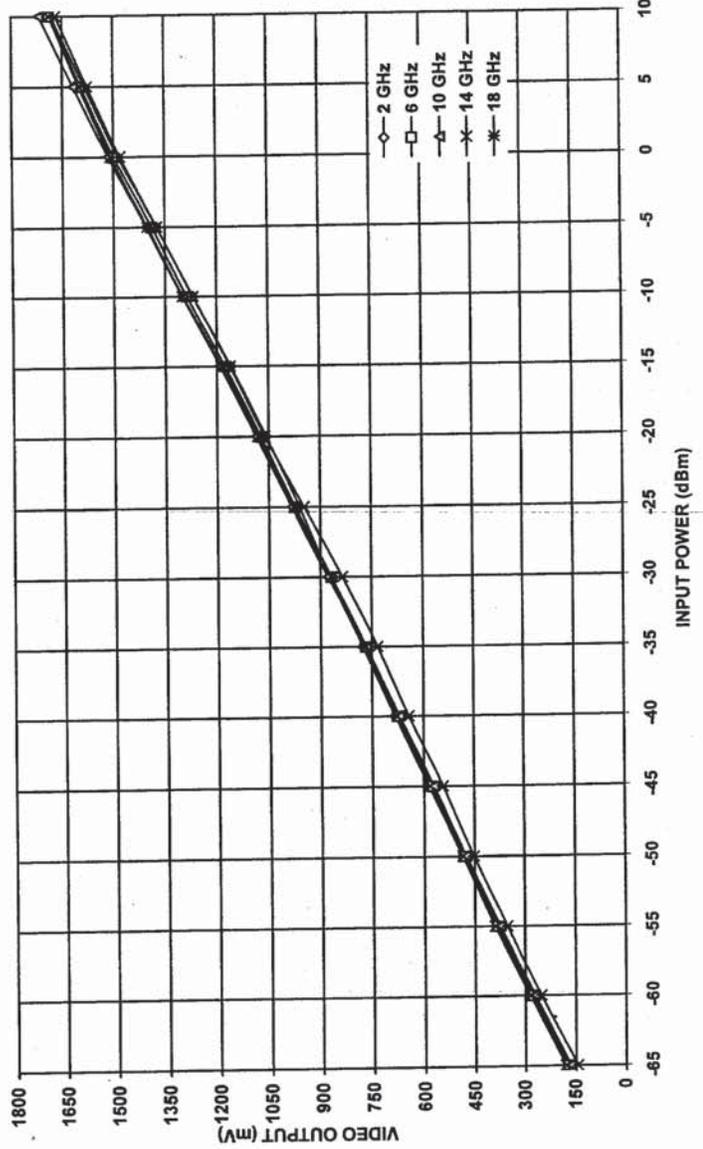
RF Input power (dbm)	175	172	166	180	145
Measured Values (mv)	280	278	271	286	263
Error (mv)	3	6	8	8	12

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SDLVA-2020-70 S/N: PM501049 DATE: 03/07/05
 LOG TRANSFER WITH TEMPERATURE @ 10 GHZ

	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0	5	10	Rf input power (dbm)
TEMPERATURE	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	1724
SLOPE	161	270	374	474	574	671	772	879	983	1087	1192	1302	1408	1518	1622	1724	Measured Value (mV)
INTERCEPT	4	8	8	4	-2	-7	-10	-7	-7	-7	-6	0	2	7	7	5	Error (mV)
TEMPERATURE	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	1720
SLOPE	185	271	375	475	571	670	768	879	983	1085	1191	1301	1405	1515	1618	1720	Measured Value (mV)
INTERCEPT	6	8	8	5	-3	-8	-13	-6	-6	-8	-5	1	1	8	7	5	Error (mV)
TEMPERATURE	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	1737
SLOPE	162	287	370	469	584	663	759	869	978	1089	1187	1298	1401	1513	1613	1737	Measured Value (mV)
INTERCEPT	9	10	9	4	-5	-9	-17	-11	-6	-6	-4	3	2	8	6	6	Error (mV)

