



**SUMMARY TEST DATA
ON
DETECTOR LOGRITHMIC VIDEO AMPLIFIER (DLVA)**

CUSTOMER: _____
 MODEL NO: DLVA-2G6G-AC-1
 OPTION NO: _____
 SERIAL NO: PL8752

JOB NO: _____
 TESTED BY: B. Baker
 TEMPERATURE: +25 °C
 DATE: 03/09/11

| TEST ITEM NO: | PARAMETERS | SPECIFIED VALUE | MEASURED VALUE | REMARKS QA/QC |
|---------------|------------------------------|-------------------------|----------------|---------------|
| 1 | Operating Frequency | 2-6 GHz | See Data | |
| 2 | INPUT VSWR | NONE | 2.3:1 | |
| 3 | COUPLING | AC | AC | |
| 4 | VIDEO LOAD | 90 OHMS | 90 OHMS | |
| 5 | VIDEO OUTPUT | 0.4 TO 3.5 Volts (TYP.) | See Data | |
| 6 | PULSE DENSITY | 250 Kbps (MIN.) | PASS | |
| 7 | LOG SLOPE | 75 mV/dB (TYP.) | See Data | |
| 8 | DYNAMIC RANGE | 40dB | See Data | |
| 9 | AMPLITUDE FLATNESS | ±1.5 dB (TYP.) | See Data | |
| 10 | RECOVERY TIME | 1 µSec (MAX.) | 50 nS | |
| 11 | TSS | -43 dBm (TYP.) | -43 dBm | |
| 12 | VIDEO RISE TIME (10% TO 90%) | 30 nSec (TYP.) | 25 nS | |
| 13 | PULSE RESPONSE RANGE | 0.1 TO 12.75 µSec | PASS | |
| 14 | DC POWER @ +15 V | NONE | 55 mA | |
| 15 | DC POWER @ -15 V | NONE | 53 mA | |

QA / QC APPROVAL: _____

DATED: _____

DLVA 2G6G-AC-1
LOG TRANSFER WITH FREQUENCY

+25 ° C
S/N: PL8752
Date: 3/9/2011



PLANAR MONOLITHICS INDUSTRIES
7311-F GROVE ROAD, FREDERICK, MD 21704
TEL: 301-662-6019 FAX: 301-662-1731
URL: WWW.PMI-RF.COM

INPUT POWER (dBm)

| | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|----|---|
| -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 |
|-----|-----|-----|-----|-----|-----|-----|----|---|

| | |
|-----------|--------------|
| FREQUENCY | 2000 MHz |
| SLOPE | 75.729 mv/db |
| INTERCEPT | 3404.2 mv |

| | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|
| 478 | 697 | 1088 | 1478 | 1853 | 2259 | 2697 | 3103 | 3353 |
| 103 | -57 | -45 | -33 | -36 | -9 | 50 | 78 | -51 |

| | |
|----------------------|------|
| Measured Values (mv) | |
| Log Linearity (dB) ± | 1.36 |

| | |
|-----------|--------------|
| FREQUENCY | 4000 MHz |
| SLOPE | 76.301 mv/db |
| INTERCEPT | 3464.2 mv |

| | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|
| 494 | 744 | 1134 | 1525 | 1900 | 2338 | 2759 | 3166 | 3384 |
| 82 | -50 | -41 | -32 | -38 | 18 | 58 | 83 | -80 |

| | |
|----------------------|------|
| Measured Values (mv) | |
| Log Linearity (dB) ± | 1.09 |

| | |
|-----------|--------------|
| FREQUENCY | 6000 MHz |
| SLOPE | 75.988 mv/db |
| INTERCEPT | 3388.5 mv |

| | | | | | | | | |
|-----|-----|------|------|------|------|------|------|------|
| 463 | 681 | 1056 | 1447 | 1822 | 2244 | 2666 | 3088 | 3353 |
| 114 | -48 | -53 | -42 | -47 | -5 | 37 | 79 | -35 |

| | |
|----------------------|------|
| Measured Values (mv) | |
| Log Linearity (dB) ± | 1.49 |

