



**SUMMARY TEST DATA  
ON  
DLVA-8G10G-75-50-SFF**

PL45439/2419

Customer: 530 Tested By: DA  
SO No: 530 Temperature: +25°C, -54°C, +95°C  
Model No: DLVA-8G10G-75-50-SFF Date: 05/10/24  
Serial No: PL45439/2419 Drawing No: 27631110 Rev: A3

| TEST.<br>ITEM NO | PARAMETERS        | SPECIFIED VALUE                    | TEST<br>RESULTS                       | QA<br>QC                 |
|------------------|-------------------|------------------------------------|---------------------------------------|--------------------------|
| 1                | Frequency Range   | 8 GHz – 10 GHz                     | 8 GHz to 10 GHz                       | <b>PMI</b><br><b>QA3</b> |
| 2                | Flatness          | $\pm 1.2$ dB                       | $\pm 1.0$ dB<br>(See Plots)           |                          |
| 3                | TSS               | -78dBm                             | -79dBm                                |                          |
| 4                | Log Dynamic Range | -75 to 0dBm                        | -75 TO 0dBm<br>(See Plots)            |                          |
| 5                | Log Slope         | 50mV/dB $\pm$ 4mV/dB               | 50mV/dB $\pm$ 1.1mV/dB<br>(See Plots) |                          |
| 6                | Log Linearity     | $\pm 1.8$ dB Max.                  | $\pm 1.67$ dB<br>(See Plots)          |                          |
| 7                | DC Offset         | 50mV $\pm$ 50mV                    | 50mV $\pm$ 49mV                       |                          |
| 8                | Rise Time         | 30 ns Max.                         | 20.5ns                                |                          |
| 9                | Fall Time         | 150ns                              | <100ns                                |                          |
| 10               | Recovery Time     | 500 ns for 10.0 us PW              | 100ns                                 |                          |
| 11               | DC Supply         | +15VDC @ 350 mA<br>-15VDC @ 100 mA | 182 mA<br>65 mA                       |                          |

QA/QC Approval: K. Lutz Date: 5-10-24



# SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL45439/2419

## LOG TRANSFER @ +25C

|                                                                                                                                          |               |                                                                          |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| LOG TRANSFER WITH FREQUENCY<br>MODEL: DLVA-8G10G-75-50-SFF<br>TESTED BY: DA<br>DATE: 04/06/2024<br>SERIAL NO: PL45439<br>Test Temp: +25C |               |                                                                          |  |  |  |  |  |  |  |  |  |  |  | <br>PLANAR MONOLITHICS INDUSTRIES<br>4921 Robert J. Mathews Parkway, Suite 1<br>El Dorado Hills, CA 95782<br>Phone: 916-542-1401 Fax: 301-862-1731<br>Email: sales@pmi-f.com   www.pmi-f.com |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Frequency                                                                                                                                |               | Output Vos= 0.079                                                        |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | RF Input Power (dBm) |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                          |               | <div>-75-70-65-60-55-50-45-40-35-30-25-20-15-10-5-0</div>                |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8 GHz                                                                                                                                    | INTERCEPT (m) | 49476010311240147417822036228725112709298732583517378340614298           |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | Measured Value (mV)  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                          | SLOPE (mV/dB) | -41029-14-33232524-4-59-33-14-7734217                                    |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | Error (mV)           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                          |               | -0.070.200.57-0.28-0.650.460.500.47-0.09-1.16-0.65-0.28-0.140.130.640.34 |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | LINEARITY ERROR (dB) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9 GHz                                                                                                                                    | INTERCEPT (m) | 4337059851192142617241981224424732679293132043458370539854231            |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | Measured Value (mV)  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                          | SLOPE (mV/dB) | -192231-13-2617233513-32-31-9-7-111813                                   |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | Error (mV)           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                          |               | -0.370.040.62-0.22-0.600.340.460.690.25-0.64-0.63-0.19-0.13-0.210.360.26 |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | LINEARITY ERROR (dB) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 GHz                                                                                                                                   | INTERCEPT (m) | 4367089871192142217121961222324582700298432433493374940404266            |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | Measured Value (mV)  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                          | SLOPE (mV/dB) | 01741-9-341-52-18-31-220.2-3-2345                                        |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | Error (mV)           |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                          |               | 0.010.340.81-0.17-0.660.02-0.090.04-0.35-0.61-0.040.04-0.06-0.040.670.10 |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  | LINEARITY ERROR (dB) |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flatness +/-dB                                                                                                                           |               | 0.60.50.50.50.50.70.70.60.50.30.60.50.60.80.80.7                         |  |  |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                 |  |                      |  |  |  |  |  |  |  |  |  |  |  |  |  |

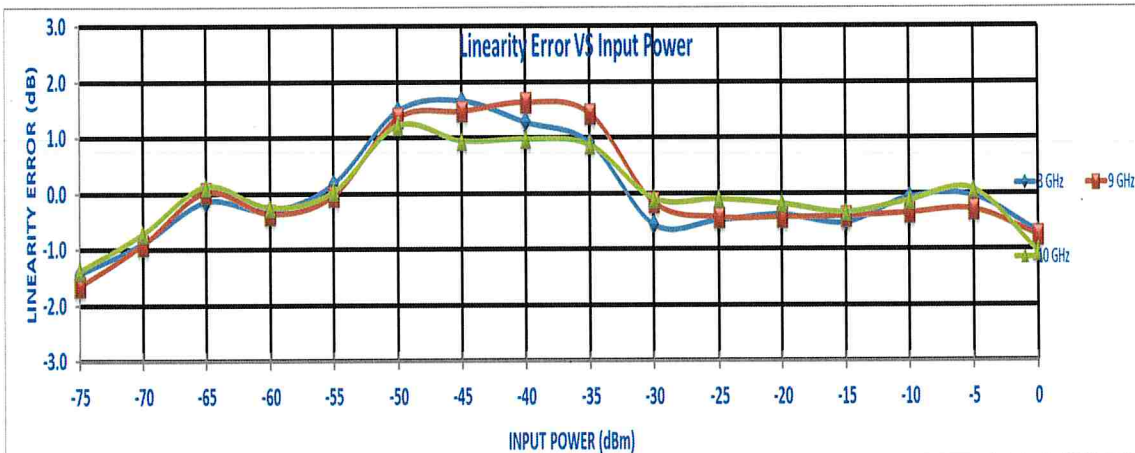
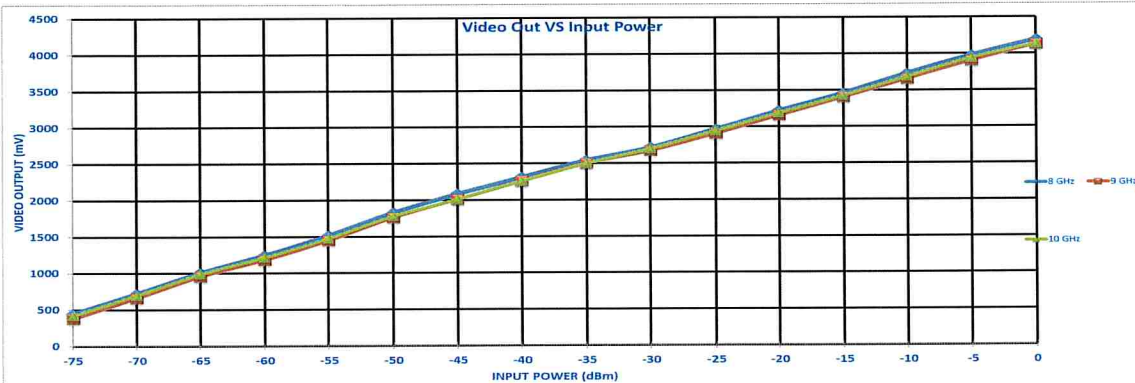


# SUMMARY TEST DATA ON DLVA-8G10G-75-50-SFF

PL45439/2419

## LOG TRANSFER @ -54C

|                                                                                                                                          |               |                  |       |       |       |       |      |      |      |      |       |       |       |       |       |       |       |                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|----------------------|--|
| LOG TRANSFER WITH FREQUENCY<br>MODEL: DLVA-8G10G-75-50-SFF<br>TESTED BY: DA<br>DATE: 05/09/2024<br>SERIAL NO: PL45439<br>Test Temp: -54C |               | Output Vos= 0.02 |       |       |       |       |      |      |      |      |       |       |       |       |       |       |       | RF Input Power (dBm) |  |
| Frequency                                                                                                                                |               | -75              | -70   | -65   | -60   | -55   | -50  | -45  | -40  | -35  | -30   | -25   | -20   | -15   | -10   | -5    | 0     |                      |  |
| 8 GHz                                                                                                                                    | INTERCEPT (m) | 444              | 718   | 1002  | 1241  | 1512  | 1824 | 2080 | 2308 | 2537 | 2711  | 2962  | 3214  | 3454  | 3724  | 3972  | 4187  | Measured Value (mV)  |  |
|                                                                                                                                          | SLOPE (mV/dB) | -71              | -44   | -7    | -15   | 9     | 74   | 83   | 63   | 45   | -28   | -24   | -19   | -26   | -3    | -2    | -34   | Error (mV)           |  |
|                                                                                                                                          |               | -1.43            | -0.89 | -0.14 | -0.31 | 0.18  | 1.49 | 1.67 | 1.28 | 0.92 | -0.56 | -0.48 | -0.38 | -0.53 | -0.06 | -0.05 | -0.70 | LINEARITY ERROR (dB) |  |
| 9 GHz                                                                                                                                    | INTERCEPT (m) | 371              | 655   | 948   | 1176  | 1439  | 1755 | 2008 | 2263 | 2500 | 2668  | 2902  | 3149  | 3397  | 3647  | 3897  | 4121  | Measured Value (mV)  |  |
|                                                                                                                                          | SLOPE (mV/dB) | -82              | -45   | 1     | -18   | -2    | 67   | 73   | 81   | 70   | -9    | -22   | -22   | -21   | -18   | -15   | -38   | Error (mV)           |  |
|                                                                                                                                          |               | -1.66            | -0.91 | 0.02  | -0.37 | -0.05 | 1.35 | 1.47 | 1.63 | 1.43 | -0.17 | -0.44 | -0.44 | -0.42 | -0.36 | -0.30 | -0.77 | LINEARITY ERROR (dB) |  |
| 10 GHz                                                                                                                                   | INTERCEPT (m) | 414              | 693   | 981   | 1209  | 1469  | 1774 | 2007 | 2255 | 2496 | 2695  | 2941  | 3183  | 3422  | 3679  | 3935  | 4126  | Measured Value (mV)  |  |
|                                                                                                                                          | SLOPE (mV/dB) | -68              | -35   | 6     | -12   | 1     | 60   | 47   | 48   | 43   | -5    | -5    | -9    | -17   | -6    | 3     | -52   | Error (mV)           |  |
|                                                                                                                                          |               | -1.38            | -0.72 | 0.13  | -0.25 | 0.03  | 1.22 | 0.95 | 0.98 | 0.87 | -0.09 | -0.10 | -0.19 | -0.34 | -0.13 | 0.07  | -1.06 | LINEARITY ERROR (dB) |  |
| Flatness +/-dB                                                                                                                           |               | 0.7              | 0.6   | 0.5   | 0.7   | 0.7   | 0.7  | 0.7  | 0.5  | 0.4  | 0.4   | 0.6   | 0.7   | 0.6   | 0.8   | 0.8   | 0.7   |                      |  |



7311-F Grove Road Frederick, MD 21704 USA Phone: (301)662-5019 Fax: (301)662-1731  
Email: [sales@pmi-rf.com](mailto:sales@pmi-rf.com)

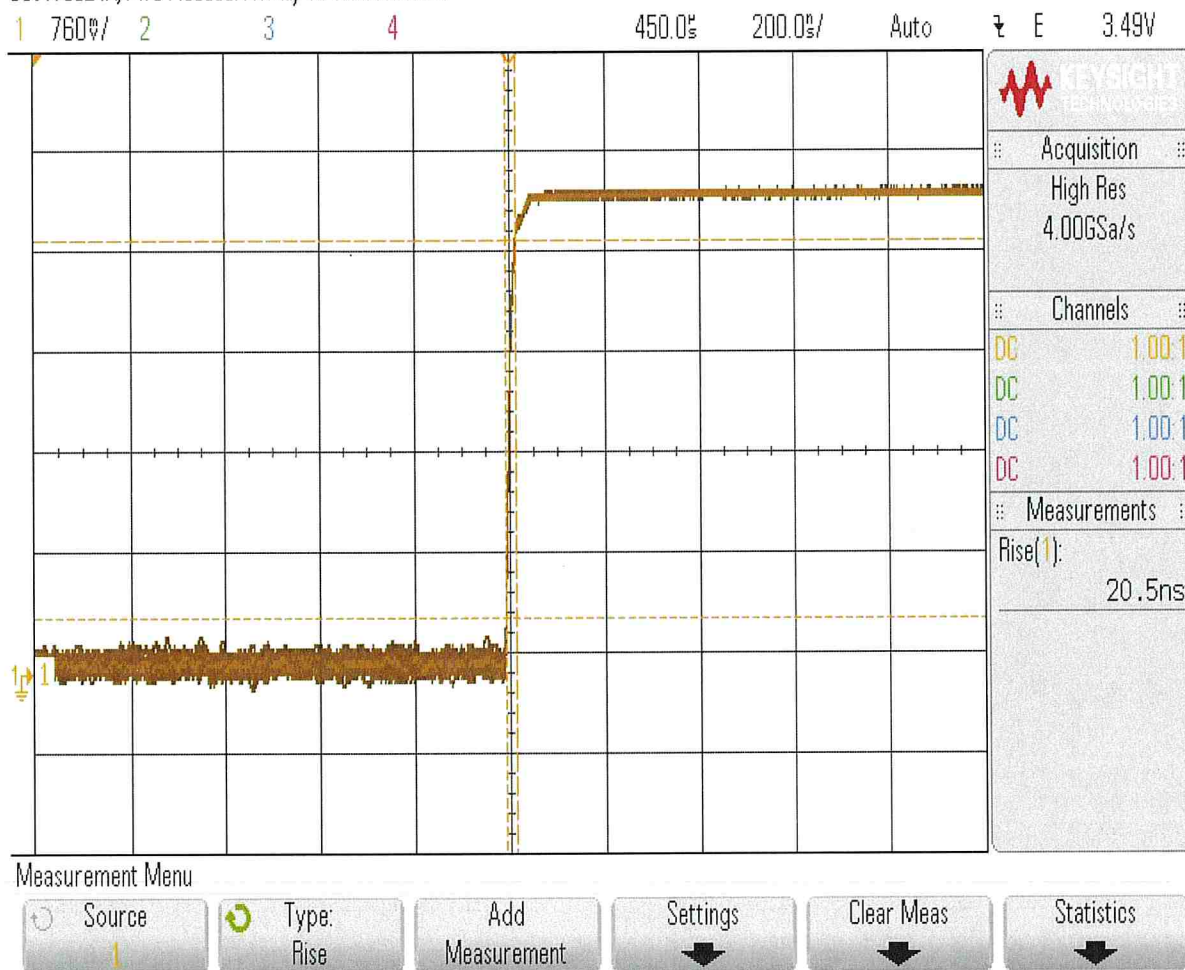


SUMMARY TEST DATA  
ON  
DLVA-8G10G-75-50-SFF

PL45439/2419

RISE TIME

DSO-X 3024A, MY54490369, Fri May 10 10:07:15 2024



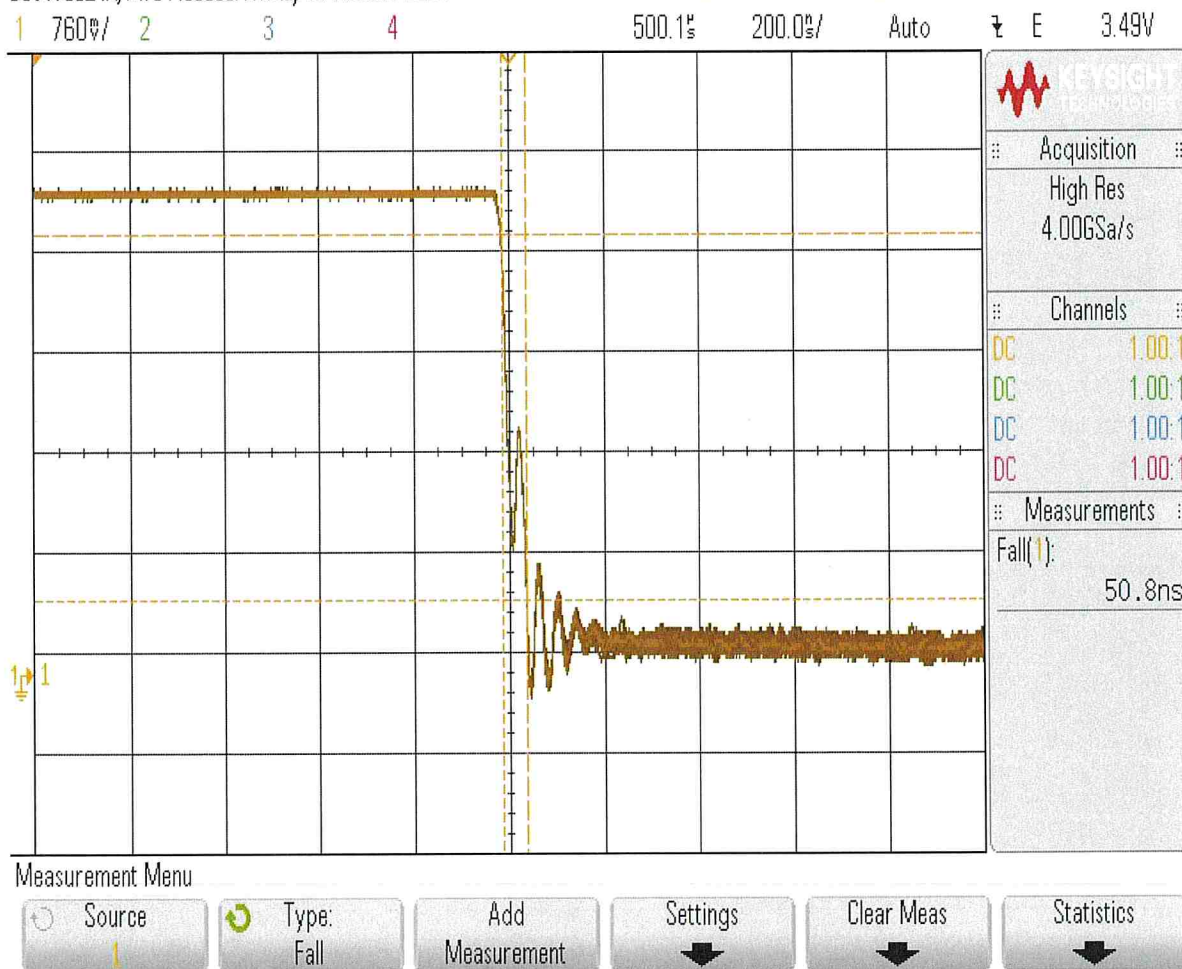


SUMMARY TEST DATA  
ON  
DLVA-8G10G-75-50-SFF

PL45439/2419

FALL/ RECOVERY TIME

DSO-X 3024A, MY54490369, Fri May 10 10:08:07 2024





SUMMARY TEST DATA  
ON  
DLVA-8G10G-75-50-SFF

PL45439/2419

TSS @ -79dBm

DSO-X 3024A, MY54490369, Fri May 10 10:06:07 2024

