Quantic PMI
PLANAR MONOLITHICS

# SUMMARY TEST DATA
# ON
# SDLVA-6G18G-CD-2-OPT218

**CUSTOMER:** [redacted]
**SO:** [redacted]
**MODEL NO:** SDLVA-6G18G-CD-2-OPT218
**SERIAL NO:** PL42907/2348

**TESTED BY:** Jim Hopson
**TEMPERATURE:** +25°C
**DATE:** 11/27/2023
**DRAWING NO:** 27623906 **REV:** A1

| TEST ITEM NO: | PARAMETERS | SPECIFIED VALUE | MEASURED VALUE | REMARKS QA/QC |
|---|---|---|---|---|
| 1 | Frequency Range | 2.0 GHz – 18.0 GHz | GHz - GHz | PMI QA,3 |
| 2 | Flatness | ± 2.0 dB Maximum | ± 1.2dB 25°C<br>See Plots | |
| 3 | TSS | -70 dBm Minimum | -71dBm | |
| 4 | VSWR | 2.0:1<br>(Input) | 1.67:1 | |
| 5 | Input Power | +17 dBm CW Maximum | Pass | |
| 6 | RF Out | +13 dBm ±3 dB Typical | 14.6/12.2dBm | |
| 7 | Log Slope | 25 mV/dB (±10%) 50Ω | 24.7mV/dB<br>See Plot | |
| 8 | Log Range | -70 to +5 dBm | See Plots | |
| 9 | Log Linearity | ±2.5 dB (-40°C - +85°C) | 1.47/-1.29dB<br>See Plots | |
| 10 | Pulse Range | 30 ns to CW | Pass | |
| 11 | Rise Time | 10 ns (6 ns Typical) | 6.3ns | |
| 12 | Recovery Time | 60 ns Typical | 60 ns Typical | |
| 13 | DC Supply | +15V or +12V @ 350 mA<br>-15V or -12V @ 180 mA | 220 mA<br>100 mA | |

QA/QC Approval: K. Hutton Date: 11-27-23

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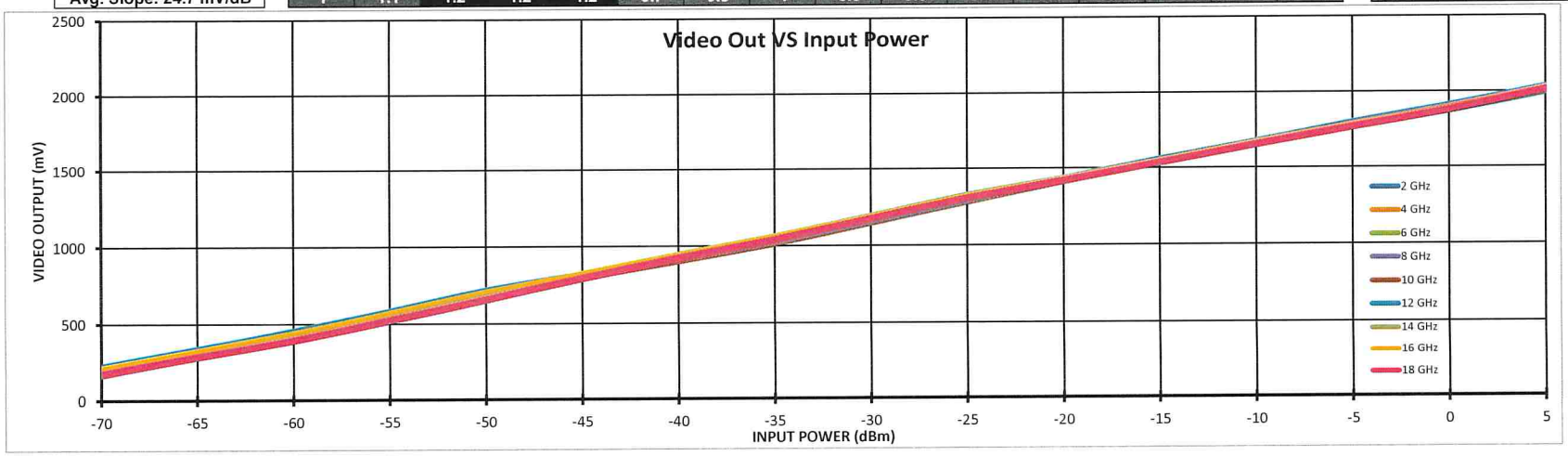
Email: sales@quanticpmi.com

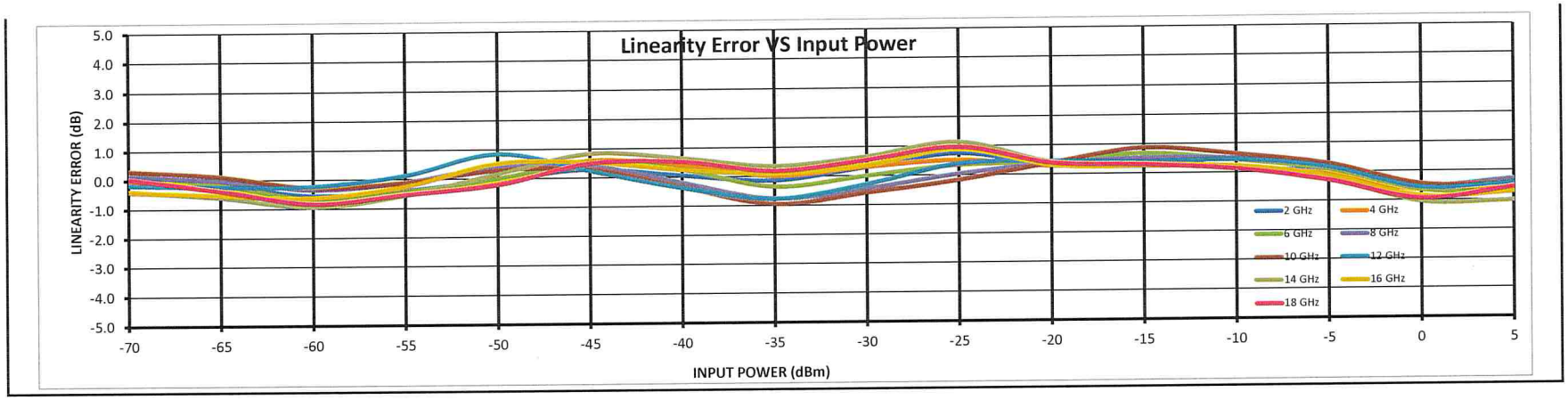
Model: SDLVA-6G18G-CD-2 - OPT218
Serial No: PL42907
Date: 11/27/23
Tested By: Jim Hopson
Test Temp: +25°C

| Frequency | | | -70 | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | RF Input Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 GHz | INTERCEPT (mV) | 1926 | 180 | 298 | 413 | 542 | 676 | 809 | 928 | 1048 | 1184 | 1320 | 1435 | 1563 | 1680 | 1801 | 1912 | 2033 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.98 | 3 | -4 | -14 | -10 | -1 | 7 | 1 | -3 | 8 | 19 | 9 | 12 | 4 | 0 | -14 | -18 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.8 | 0.12 | -0.16 | -0.56 | -0.39 | -0.03 | 0.30 | 0.06 | -0.14 | 0.31 | 0.75 | 0.35 | 0.48 | 0.16 | 0.01 | -0.55 | -0.71 | LINEARITY ERROR (dB) |
| 4 GHz | INTERCEPT (mV) | 1915 | 168 | 287 | 401 | 532 | 666 | 807 | 927 | 1042 | 1174 | 1304 | 1423 | 1550 | 1669 | 1788 | 1898 | 2025 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.95 | 0 | -6 | -17 | -11 | -1 | 15 | 10 | 1 | 8 | 13 | 7 | 10 | 4 | -2 | -17 | -14 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.672 | -0.01 | -0.24 | -0.67 | -0.42 | -0.05 | 0.60 | 0.41 | 0.02 | 0.31 | 0.52 | 0.29 | 0.39 | 0.16 | -0.07 | -0.66 | -0.57 | LINEARITY ERROR (dB) |
| 6 GHz | INTERCEPT (mV) | 1908 | 161 | 276 | 389 | 520 | 656 | 795 | 913 | 1023 | 1157 | 1291 | 1418 | 1550 | 1669 | 1785 | 1892 | 2015 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.05 | 6 | -4 | -17 | -11 | 0 | 14 | 6 | -9 | 0 | 9 | 11 | 17 | 11 | 2 | -16 | -19 | Error (mV) |
| | LIN. ERR. (dB) | 0.742 | 0.23 | -0.18 | -0.66 | -0.43 | 0.00 | 0.55 | 0.26 | -0.35 | 0.00 | 0.35 | 0.42 | 0.69 | 0.44 | 0.07 | -0.65 | -0.74 | LINEARITY ERROR (dB) |
| 8 GHz | INTERCEPT (mV) | 1896 | 177 | 296 | 411 | 540 | 676 | 799 | 907 | 1016 | 1147 | 1282 | 1413 | 1540 | 1662 | 1777 | 1884 | 2012 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.61 | 4 | 0 | -8 | -3 | 10 | 10 | -5 | -19 | -11 | 1 | 9 | 13 | 12 | 4 | -12 | -7 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.759 | 0.15 | -0.02 | -0.34 | -0.10 | 0.42 | 0.42 | -0.19 | -0.76 | -0.44 | 0.05 | 0.37 | 0.54 | 0.49 | 0.17 | -0.49 | -0.28 | LINEARITY ERROR (dB) |
| 10 GHz | INTERCEPT (mV) | 1904 | 177 | 296 | 410 | 538 | 672 | 796 | 904 | 1013 | 1146 | 1280 | 1418 | 1554 | 1672 | 1787 | 1893 | 2017 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.78 | 8 | 3 | -7 | -3 | 7 | 7 | -8 | -23 | -14 | -4 | 10 | 22 | 16 | 7 | -11 | -11 | Error (mV) |
| | LIN. ERR. (dB) | 0.943 | 0.32 | 0.13 | -0.27 | -0.11 | 0.30 | 0.30 | -0.34 | -0.94 | -0.58 | -0.17 | 0.40 | 0.89 | 0.65 | 0.29 | -0.43 | -0.43 | LINEARITY ERROR (dB) |
| 12 GHz | INTERCEPT (mV) | 1890 | 211 | 329 | 449 | 577 | 714 | 819 | 924 | 1034 | 1165 | 1301 | 1422 | 1540 | 1661 | 1774 | 1876 | 1999 | Measured Value (mV) |
| | SLOPE (mV/dB) | 23.92 | -4 | -6 | -5 | 3 | 20 | 6 | -9 | -18 | -7 | 9 | 11 | 9 | 11 | 4 | -14 | -10 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.852 | -0.18 | -0.24 | -0.23 | 0.12 | 0.85 | 0.24 | -0.37 | -0.77 | -0.29 | 0.39 | 0.45 | 0.39 | 0.45 | 0.17 | -0.57 | -0.42 | LINEARITY ERROR (dB) |
| 14 GHz | INTERCEPT (mV) | 1912 | 175 | 293 | 408 | 541 | 682 | 822 | 941 | 1057 | 1188 | 1323 | 1429 | 1550 | 1670 | 1783 | 1886 | 2010 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.68 | -9 | -15 | -23 | -14 | 4 | 21 | 16 | 9 | 16 | 28 | 11 | 8 | 5 | -6 | -26 | -25 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.136 | -0.38 | -0.60 | -0.94 | -0.55 | 0.16 | 0.84 | 0.66 | 0.36 | 0.67 | 1.14 | 0.43 | 0.33 | 0.20 | -0.22 | -1.05 | -1.03 | LINEARITY ERROR (dB) |
| 16 GHz | INTERCEPT (mV) | 1903 | 204 | 322 | 440 | 570 | 709 | 830 | 944 | 1061 | 1188 | 1321 | 1428 | 1547 | 1667 | 1779 | 1882 | 2006 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.13 | -10 | -13 | -15 | -6 | 13 | 13 | 6 | 3 | 9 | 21 | 8 | 6 | 6 | -3 | -21 | -17 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.888 | -0.41 | -0.52 | -0.63 | -0.24 | 0.52 | 0.54 | 0.26 | 0.11 | 0.38 | 0.89 | 0.32 | 0.26 | 0.23 | -0.13 | -0.86 | -0.72 | LINEARITY ERROR (dB) |
| 18 GHz | INTERCEPT (mV) | 1905 | 166 | 280 | 393 | 525 | 657 | 799 | 924 | 1040 | 1173 | 1308 | 1418 | 1540 | 1660 | 1774 | 1882 | 2016 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.87 | 1 | -9 | -20 | -13 | -5 | 13 | 13 | 5 | 14 | 24 | 10 | 8 | 3 | -7 | -23 | -14 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.978 | 0.05 | -0.36 | -0.82 | -0.51 | -0.20 | 0.51 | 0.54 | 0.20 | 0.55 | 0.98 | 0.40 | 0.31 | 0.13 | -0.28 | -0.94 | -0.55 | LINEARITY ERROR (dB) |
| Avg. Slope: 24.7 mV/dB | | | 1 | 1.1 | 1.2 | 1.2 | 1.2 | 0.7 | 0.8 | 1 | 0.9 | 0.9 | 0.4 | 0.5 | 0.4 | 0.5 | 0.7 | 0.7 | Flatness dB: ±1.2 dB |



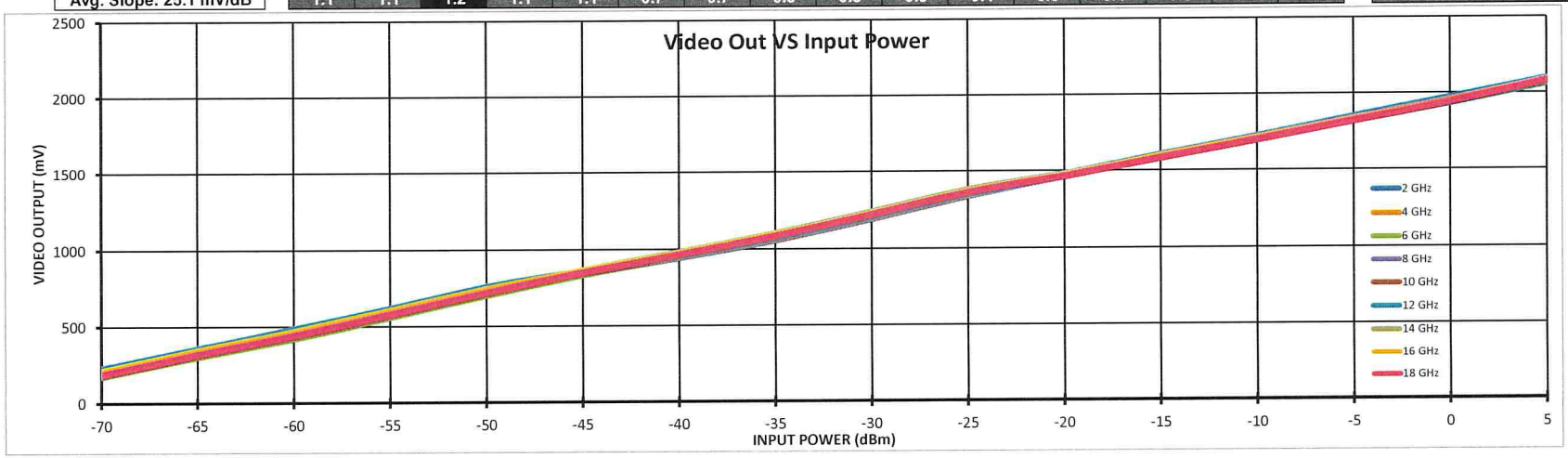
PL42907

25°C


Linearity Error VS Input Power
LINEARITY ERROR (dB)
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-70
-65
-60
-55
-50
-45
-40
-35
-30
-25
-20
-15
-10
-5
0
5
INPUT POWER (dBm)
2 GHz
4 GHz
6 GHz
8 GHz
10 GHz
12 GHz
14 GHz
16 GHz
18 GHz

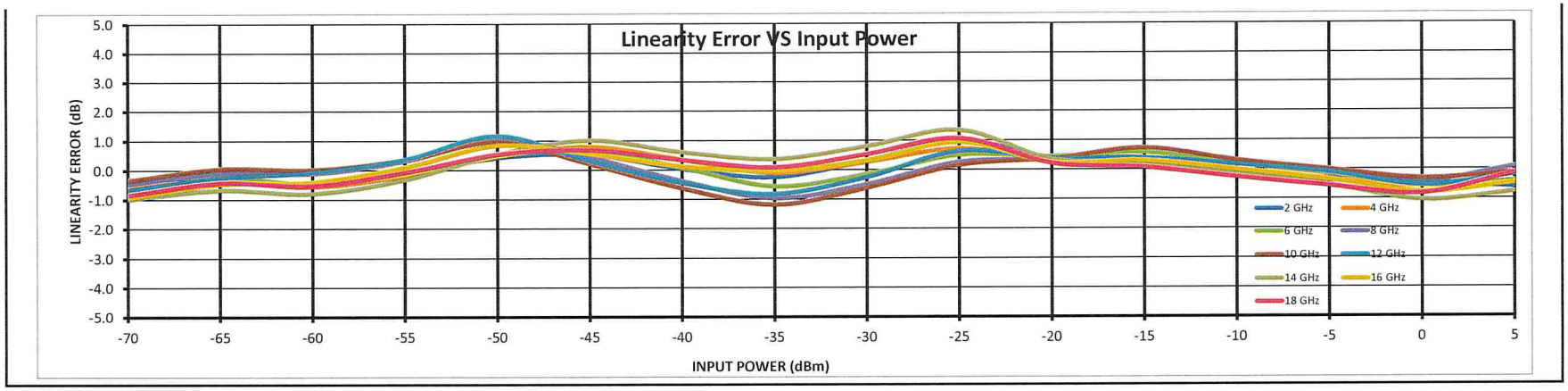
Model: SDLVA-6G18G-CD-2 - OPT218
Serial No: PL42907
Date: 11/27/23
Tested By: Jim Hopson
Test Temp: -40°C

| Frequency | | | -70 | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | RF Input Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 GHz | INTERCEPT (mV) | 1986 | 175 | 309 | 432 | 570 | 712 | 843 | 959 | 1080 | 1223 | 1369 | 1482 | 1610 | 1726 | 1849 | 1974 | 2098 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.69 | -12 | -7 | -12 | -3 | 11 | 13 | 1 | -6 | 8 | 26 | 10 | 10 | -3 | -8 | -12 | -16 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.0 | -0.48 | -0.27 | -0.48 | -0.11 | 0.42 | 0.52 | 0.04 | -0.25 | 0.32 | 1.00 | 0.40 | 0.38 | -0.10 | -0.31 | -0.45 | -0.62 | LINEARITY ERROR (dB) |
| 4 GHz | INTERCEPT (mV) | 1972 | 173 | 305 | 428 | 565 | 709 | 845 | 961 | 1077 | 1214 | 1353 | 1470 | 1597 | 1714 | 1835 | 1957 | 2089 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.5 | -14 | -10 | -14 | -5 | 12 | 20 | 9 | -3 | 7 | 19 | 8 | 8 | -3 | -9 | -15 | -10 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.802 | -0.55 | -0.38 | -0.55 | -0.18 | 0.47 | 0.80 | 0.35 | -0.10 | 0.27 | 0.73 | 0.32 | 0.30 | -0.11 | -0.37 | -0.58 | -0.41 | LINEARITY ERROR (dB) |
| 6 GHz | INTERCEPT (mV) | 1961 | 168 | 298 | 419 | 556 | 699 | 831 | 943 | 1054 | 1192 | 1336 | 1462 | 1593 | 1710 | 1829 | 1946 | 2077 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.5 | -8 | -5 | -12 | -2 | 13 | 18 | 2 | -14 | -4 | 13 | 11 | 15 | 4 | -4 | -15 | -11 | Error (mV) |
| | LIN. ERR. (dB) | 0.692 | -0.31 | -0.21 | -0.47 | -0.09 | 0.51 | 0.69 | 0.08 | -0.56 | -0.15 | 0.50 | 0.44 | 0.58 | 0.17 | -0.16 | -0.58 | -0.44 | LINEARITY ERROR (dB) |
| 8 GHz | INTERCEPT (mV) | 1951 | 197 | 331 | 455 | 590 | 733 | 842 | 946 | 1056 | 1192 | 1335 | 1461 | 1587 | 1706 | 1824 | 1940 | 2077 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.88 | -12 | -2 | -3 | 8 | 26 | 11 | -9 | -24 | -12 | 6 | 8 | 10 | 4 | -2 | -11 | 2 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.062 | -0.48 | -0.09 | -0.11 | 0.31 | 1.06 | 0.44 | -0.38 | -0.96 | -0.49 | 0.26 | 0.32 | 0.39 | 0.17 | -0.09 | -0.43 | 0.08 | LINEARITY ERROR (dB) |
| 10 GHz | INTERCEPT (mV) | 1962 | 206 | 341 | 465 | 598 | 738 | 844 | 948 | 1059 | 1198 | 1342 | 1472 | 1606 | 1720 | 1837 | 1954 | 2084 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.96 | -9 | 1 | 1 | 9 | 24 | 5 | -16 | -29 | -15 | 4 | 9 | 18 | 8 | 0 | -8 | -3 | Error (mV) |
| | LIN. ERR. (dB) | 1.176 | -0.35 | 0.06 | 0.03 | 0.36 | 0.96 | 0.21 | -0.62 | -1.18 | -0.61 | 0.16 | 0.37 | 0.74 | 0.31 | -0.01 | -0.32 | -0.11 | LINEARITY ERROR (dB) |
| 12 GHz | INTERCEPT (mV) | 1949 | 221 | 353 | 480 | 613 | 755 | 856 | 960 | 1073 | 1209 | 1353 | 1469 | 1591 | 1708 | 1824 | 1935 | 2066 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.44 | -16 | -7 | -2 | 9 | 29 | 7 | -11 | -20 | -6 | 16 | 9 | 9 | 4 | -2 | -14 | -5 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.172 | -0.67 | -0.27 | -0.08 | 0.36 | 1.17 | 0.30 | -0.44 | -0.82 | -0.26 | 0.64 | 0.38 | 0.37 | 0.16 | -0.10 | -0.56 | -0.20 | LINEARITY ERROR (dB) |
| 14 GHz | INTERCEPT (mV) | 1971 | 180 | 314 | 437 | 575 | 723 | 861 | 977 | 1097 | 1234 | 1374 | 1475 | 1598 | 1715 | 1831 | 1944 | 2077 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.22 | -25 | -17 | -20 | -8 | 14 | 26 | 15 | 9 | 20 | 34 | 9 | 6 | -3 | -13 | -27 | -20 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.351 | -0.98 | -0.67 | -0.80 | -0.33 | 0.54 | 1.01 | 0.61 | 0.37 | 0.80 | 1.35 | 0.35 | 0.23 | -0.13 | -0.53 | -1.05 | -0.78 | LINEARITY ERROR (dB) |
| 16 GHz | INTERCEPT (mV) | 1964 | 212 | 347 | 472 | 608 | 750 | 866 | 979 | 1099 | 1231 | 1370 | 1476 | 1601 | 1717 | 1832 | 1945 | 2076 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.7 | -23 | -11 | -10 | 2 | 21 | 13 | 3 | -1 | 8 | 23 | 6 | 7 | 0 | -9 | -19 | -12 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.948 | -0.93 | -0.47 | -0.41 | 0.10 | 0.85 | 0.55 | 0.12 | -0.02 | 0.32 | 0.95 | 0.24 | 0.30 | 0.00 | -0.35 | -0.77 | -0.47 | LINEARITY ERROR (dB) |
| 18 GHz | INTERCEPT (mV) | 1963 | 184 | 320 | 443 | 580 | 721 | 850 | 967 | 1086 | 1223 | 1362 | 1466 | 1588 | 1705 | 1823 | 1942 | 2085 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.11 | -21 | -10 | -13 | -2 | 14 | 17 | 9 | 2 | 14 | 27 | 6 | 2 | -7 | -14 | -21 | -3 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.079 | -0.83 | -0.42 | -0.52 | -0.06 | 0.55 | 0.69 | 0.35 | 0.09 | 0.54 | 1.08 | 0.22 | 0.08 | -0.26 | -0.56 | -0.82 | -0.13 | LINEARITY ERROR (dB) |
| Avg. Slope: 25.1 mV/dB | | | 1.1 | 1.1 | 1.2 | 1.1 | 1.1 | 0.7 | 0.7 | 0.9 | 0.8 | 0.8 | 0.4 | 0.5 | 0.4 | 0.5 | 0.8 | 0.6 | Flatness dB: ±1.2 dB |



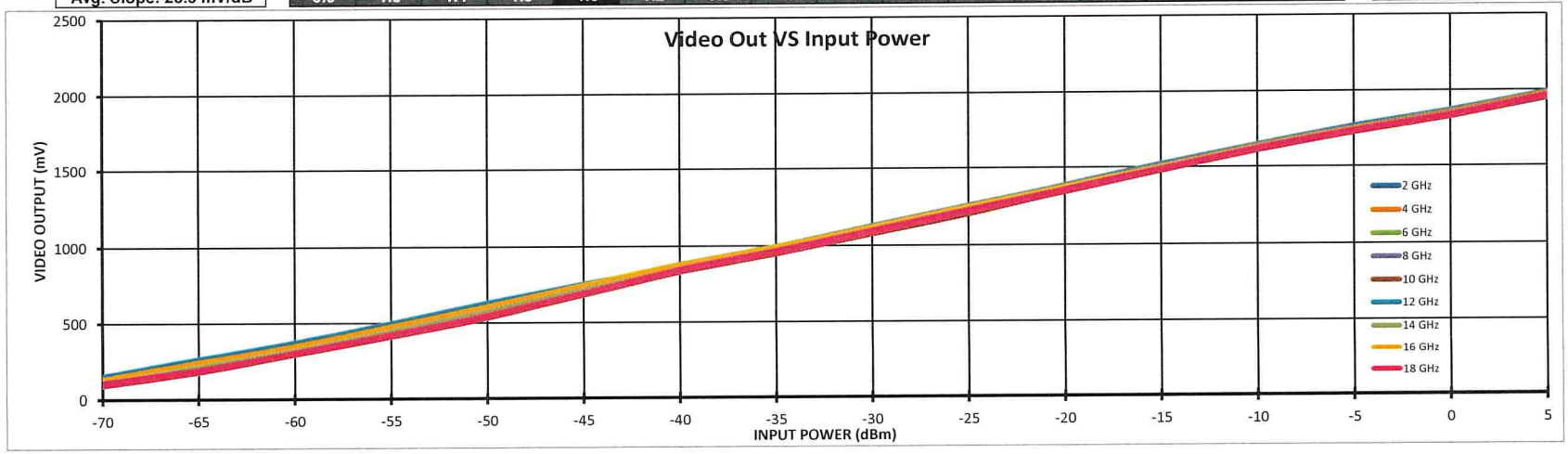
PL42907

-40°C


Linearity Error VS Input Power
LINEARITY ERROR (dB)
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-70
-65
-60
-55
-50
-45
-40
-35
-30
-25
-20
-15
-10
-5
0
5
INPUT POWER (dBm)
2 GHz
4 GHz
6 GHz
8 GHz
10 GHz
12 GHz
14 GHz
16 GHz
18 GHz

Model: SDLVA-6G18G-CD-2 - OPT218
Serial No: PL42907
Date: 11/27/23
Tested By: Jim Hopson
Test Temp: +85°C

| Frequency | | | -70 | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | RF Input Power (dBm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 GHz | INTERCEPT (mV) | 1884 | 124 | 238 | 349 | 475 | 600 | 742 | 873 | 993 | 1126 | 1257 | 1383 | 1521 | 1647 | 1766 | 1869 | 1987 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.36 | 16 | 3 | -13 | -14 | -16 | 0 | 4 | -3 | 3 | 7 | 7 | 18 | 17 | 9 | -15 | -23 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.9 | 0.61 | 0.11 | -0.51 | -0.54 | -0.61 | -0.02 | 0.15 | -0.12 | 0.13 | 0.29 | 0.26 | 0.70 | 0.67 | 0.37 | -0.57 | -0.92 | LINEARITY ERROR (dB) |
| 4 GHz | INTERCEPT (mV) | 1871 | 112 | 217 | 330 | 455 | 580 | 729 | 866 | 981 | 1111 | 1236 | 1367 | 1502 | 1633 | 1753 | 1857 | 1980 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.44 | 22 | -1 | -15 | -17 | -19 | 3 | 12 | 0 | 3 | 1 | 5 | 13 | 16 | 9 | -14 | -18 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.845 | 0.85 | -0.03 | -0.58 | -0.67 | -0.75 | 0.10 | 0.49 | 0.01 | 0.12 | 0.04 | 0.19 | 0.49 | 0.64 | 0.36 | -0.55 | -0.71 | LINEARITY ERROR (dB) |
| 6 GHz | INTERCEPT (mV) | 1862 | 102 | 198 | 313 | 437 | 563 | 711 | 847 | 961 | 1092 | 1219 | 1357 | 1499 | 1631 | 1747 | 1849 | 1965 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.58 | 30 | -1 | -14 | -18 | -20 | 0 | 8 | -6 | -3 | -4 | 7 | 21 | 25 | 13 | -13 | -25 | Error (mV) |
| | LIN. ERR. (dB) | 1.189 | 1.19 | -0.06 | -0.56 | -0.71 | -0.79 | 0.00 | 0.32 | -0.22 | -0.10 | -0.14 | 0.26 | 0.81 | 0.97 | 0.51 | -0.50 | -0.97 | LINEARITY ERROR (dB) |
| 8 GHz | INTERCEPT (mV) | 1851 | 109 | 210 | 323 | 448 | 574 | 715 | 838 | 950 | 1078 | 1206 | 1349 | 1490 | 1625 | 1740 | 1843 | 1964 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.31 | 29 | 4 | -10 | -11 | -12 | 2 | -1 | -16 | -14 | -13 | 4 | 18 | 27 | 15 | -8 | -14 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.153 | 1.15 | 0.14 | -0.39 | -0.45 | -0.47 | 0.10 | -0.04 | -0.62 | -0.56 | -0.50 | 0.15 | 0.72 | 1.05 | 0.60 | -0.33 | -0.55 | LINEARITY ERROR (dB) |
| 10 GHz | INTERCEPT (mV) | 1860 | 108 | 208 | 321 | 445 | 569 | 711 | 835 | 948 | 1076 | 1203 | 1352 | 1505 | 1637 | 1751 | 1851 | 1969 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.51 | 34 | 6 | -8 | -12 | -15 | -1 | -4 | -19 | -18 | -19 | 3 | 28 | 33 | 19 | -9 | -18 | Error (mV) |
| | LIN. ERR. (dB) | 1.33 | 1.33 | 0.25 | -0.32 | -0.46 | -0.60 | -0.03 | -0.17 | -0.74 | -0.72 | -0.74 | 0.10 | 1.10 | 1.28 | 0.75 | -0.33 | -0.71 | LINEARITY ERROR (dB) |
| 12 GHz | INTERCEPT (mV) | 1848 | 139 | 254 | 365 | 490 | 622 | 749 | 861 | 970 | 1099 | 1228 | 1364 | 1492 | 1626 | 1739 | 1837 | 1954 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.57 | 11 | 3 | -9 | -6 | 3 | 7 | -4 | -18 | -12 | -6 | 8 | 13 | 24 | 14 | -11 | -17 | ERROR (mV) |
| | LIN. ERR. (dB) | 0.971 | 0.45 | 0.13 | -0.35 | -0.26 | 0.11 | 0.28 | -0.16 | -0.73 | -0.48 | -0.23 | 0.31 | 0.52 | 0.97 | 0.57 | -0.44 | -0.68 | LINEARITY ERROR (dB) |
| 14 GHz | INTERCEPT (mV) | 1869 | 109 | 211 | 325 | 452 | 582 | 737 | 874 | 987 | 1118 | 1248 | 1373 | 1503 | 1635 | 1748 | 1846 | 1963 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.37 | 16 | -9 | -22 | -22 | -19 | 10 | 20 | 6 | 10 | 13 | 11 | 15 | 20 | 6 | -23 | -33 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.288 | 0.62 | -0.36 | -0.86 | -0.86 | -0.73 | 0.38 | 0.78 | 0.24 | 0.40 | 0.52 | 0.45 | 0.58 | 0.78 | 0.24 | -0.90 | -1.29 | LINEARITY ERROR (dB) |
| 16 GHz | INTERCEPT (mV) | 1860 | 126 | 238 | 348 | 476 | 605 | 749 | 877 | 990 | 1118 | 1247 | 1371 | 1497 | 1630 | 1742 | 1840 | 1958 | Measured Value (mV) |
| | SLOPE (mV/dB) | 24.89 | 9 | -4 | -18 | -15 | -10 | 9 | 13 | 1 | 5 | 10 | 9 | 11 | 19 | 7 | -20 | -26 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.046 | 0.34 | -0.16 | -0.74 | -0.59 | -0.41 | 0.38 | 0.52 | 0.06 | 0.20 | 0.39 | 0.37 | 0.43 | 0.77 | 0.27 | -0.79 | -1.05 | LINEARITY ERROR (dB) |
| 18 GHz | INTERCEPT (mV) | 1855 | 93 | 177 | 295 | 416 | 539 | 690 | 841 | 959 | 1090 | 1223 | 1352 | 1486 | 1619 | 1732 | 1834 | 1960 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.7 | 38 | -7 | -17 | -25 | -30 | -8 | 15 | 4 | 7 | 11 | 12 | 17 | 22 | 6 | -21 | -23 | ERROR (mV) |
| | LIN. ERR. (dB) | 1.471 | 1.47 | -0.26 | -0.67 | -0.96 | -1.18 | -0.30 | 0.57 | 0.16 | 0.26 | 0.43 | 0.45 | 0.66 | 0.84 | 0.23 | -0.80 | -0.90 | LINEARITY ERROR (dB) |
| Avg. Slope: 25.3 mV/dB | | | 0.9 | 1.5 | 1.4 | 1.5 | 1.6 | 1.2 | 0.8 | 0.9 | 1 | 1.1 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.7 | Flatness dB: ±1.6 dB |



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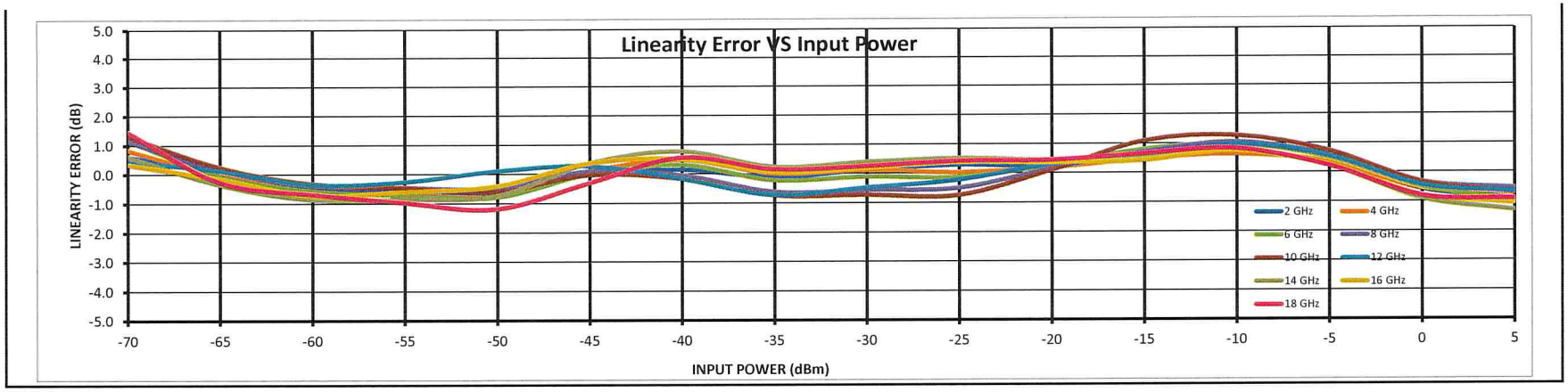
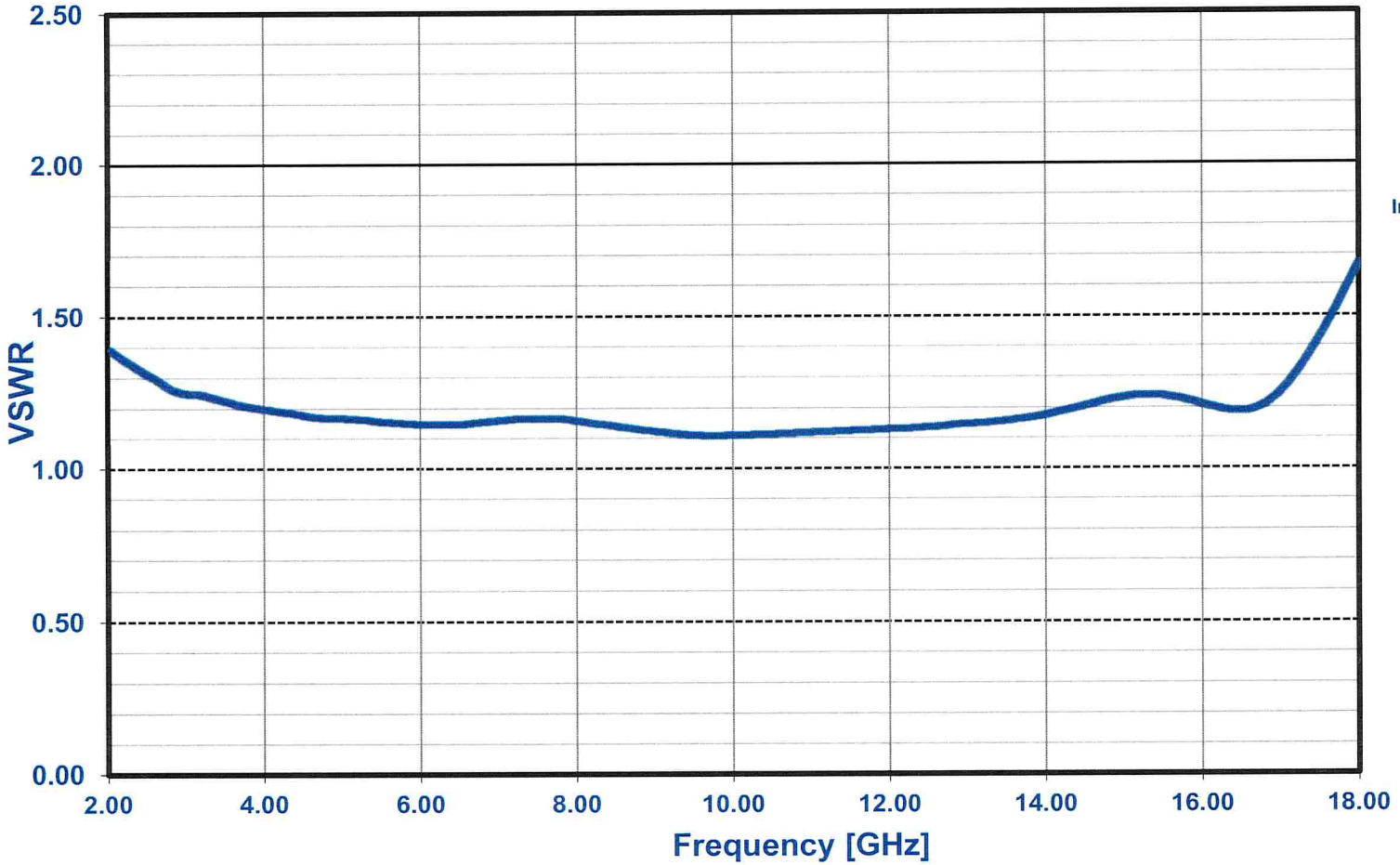
85°C


Linearity Error VS Input Power
LINEARITY ERROR (dB)
5.0
4.0
3.0
2.0
1.0
0.0
-1.0
-2.0
-3.0
-4.0
-5.0
-70
-65
-60
-55
-50
-45
-40
-35
-30
-25
-20
-15
-10
-5
0
5
INPUT POWER (dBm)
2 GHz
4 GHz
6 GHz
8 GHz
10 GHz
12 GHz
14 GHz
16 GHz
18 GHz

Model Number: SDLVA-6G18G-CD-2 OPT218
Serial Number: PL42907
Date: 11/27/2023

Temperature: +25C

# VSWR GRAPH




Input VSWR 1.67:1 Max

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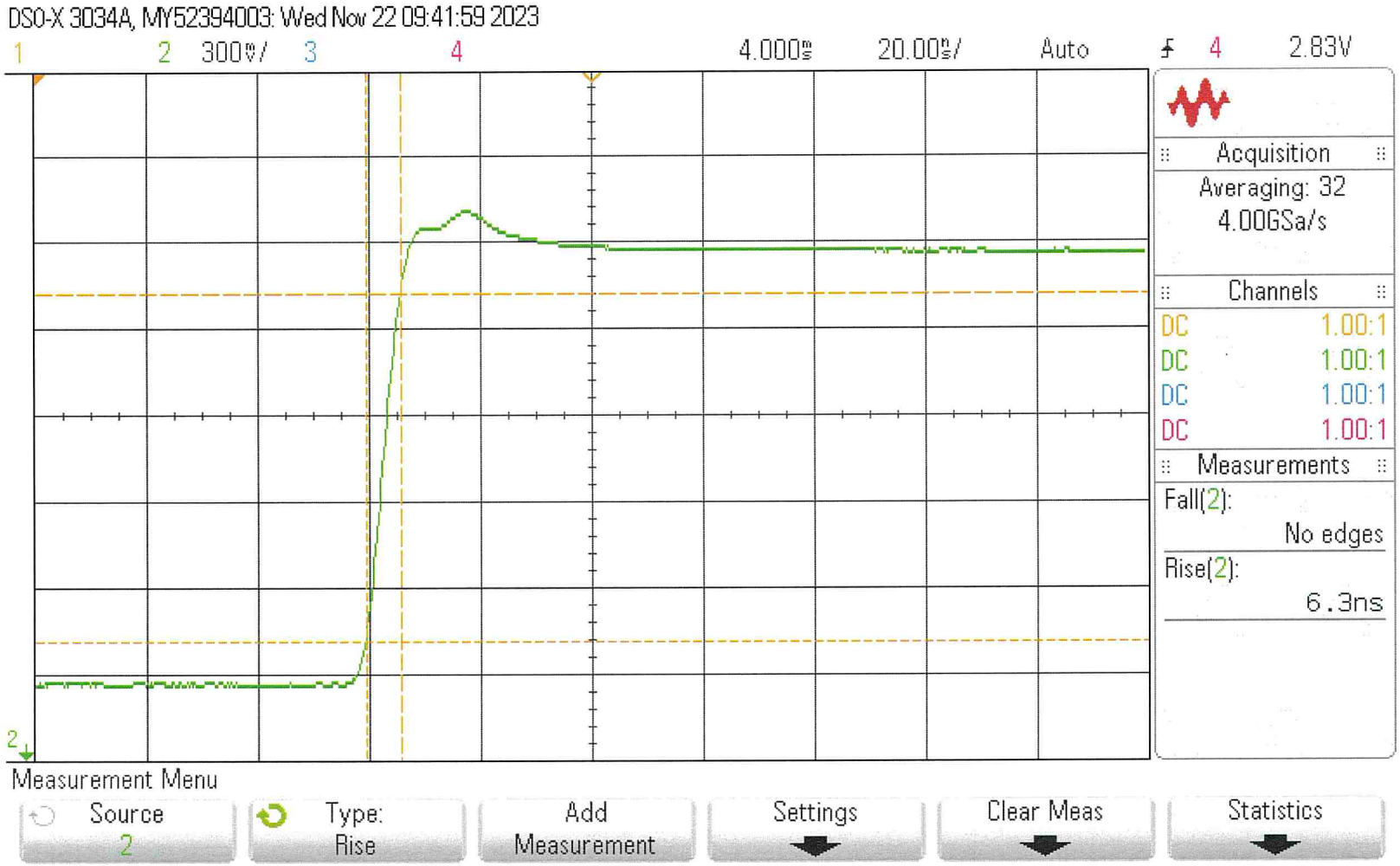
Rise Time



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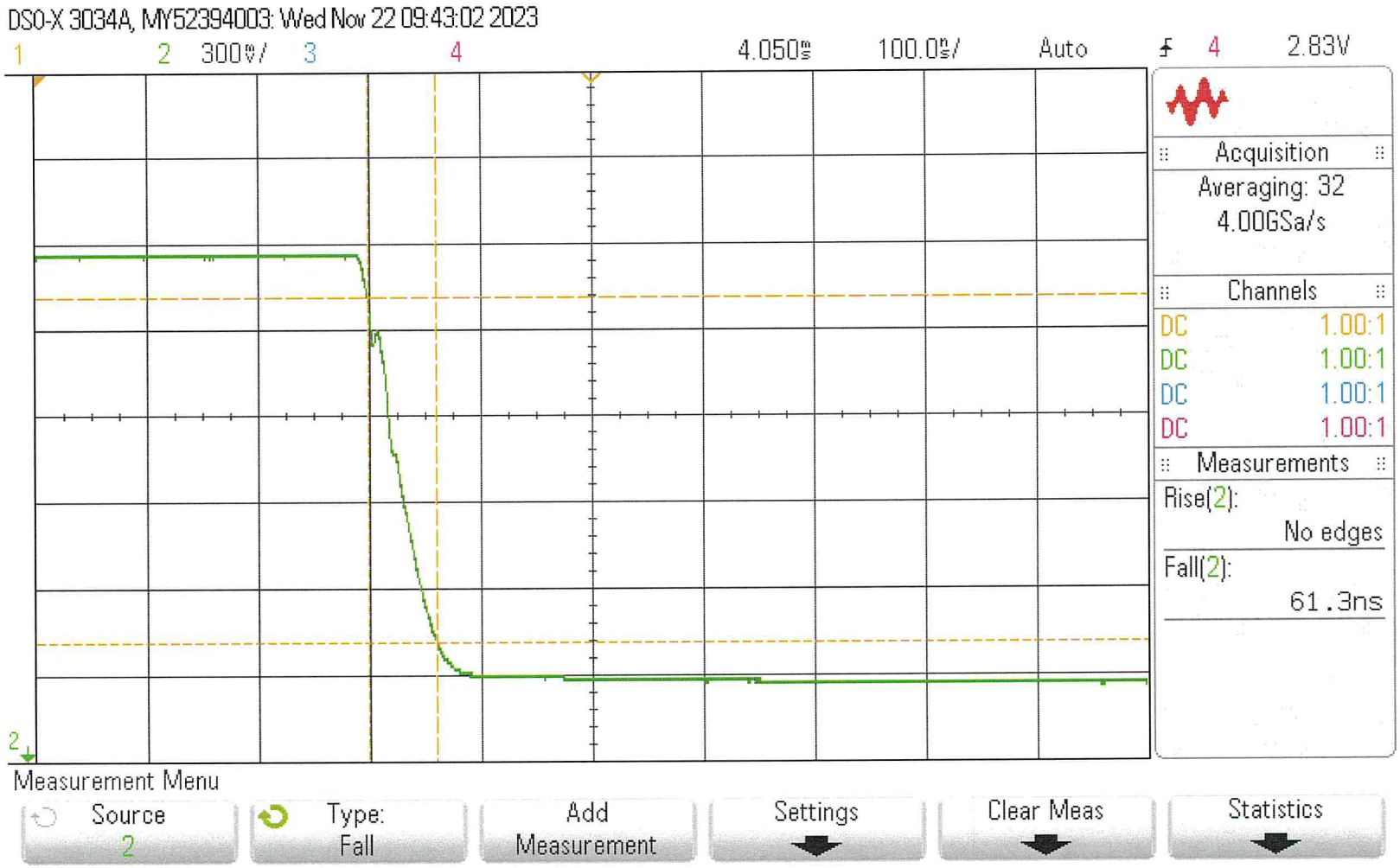
Recovery



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