



**SUMMARY TEST DATA
ON
SDLVA-6G18G-CD-2-OPT218-NRF**

PL20010/1641

| | |
|--|--|
| Customer: _____ | Tested By: <u>S.Baughman</u> |
| SO No: <u>SO16-213-P-PE</u> | Temperature: <u>+25°C</u> |
| Model No: <u>SDLVA-6G18G-CD-2-OPT218-NRF</u> | Date: <u>10/25/16</u> |
| Serial No: <u>PL20010/1641</u> | Drawing No: <u>27630483</u> Rev: <u>A1</u> |

| TEST. ITEM NO | PARAMETERS | SPECIFIED VALUE | TEST RESULTS | QA QC |
|------------------|----------------|--|---|----------|
| 1 | Frequency: | 2.0 GHz – 18.0 GHz | 2.0 GHz – 18.0 GHz See Plots | |
| 2 | Flatness: | ± 2.0 dB Maximum | ± 1.54 dB 25°C See Plots | |
| 3 | TSS: | -70 dBm Minimum | -74.5 dBm | |
| 4 | VSWR: | 2.0:1 (Input) | 1.77:1 (Input) | |
| 5 | Power Input: | +17 dBm CW Maximum | Pass | |
| 6 | RF Out: | Not Connected | Not Connected | |
| 7 | Log Slope | 25 mV/dB (±10%) 50Ω | 25.9 mV/dB See Plot | |
| 8 | Log Range: | -70 to +5 dBm | -70 to +5 dBm See Plots | |
| 9 | Log Linearity: | ±2.5 dB (-40°C - +85°C) | 1.62 dB See Plots | |
| 10 | Pulse Range: | 30 ns to CW | Pass | |
| 11 | Rise Time: | 10 ns (6 ns Typical) | 7.4 ns | |
| 12 | Recovery Time: | 60 ns Typical | 47.3 ns | |
| 13 | DC Supply: | +15V or +12V @ 350 mA -15V or -12V @ 180 mA | +15V or +12V @ 252 mA -15V or -12V @ 96 mA | |

QA/QC Approval: _____ Date: _____



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

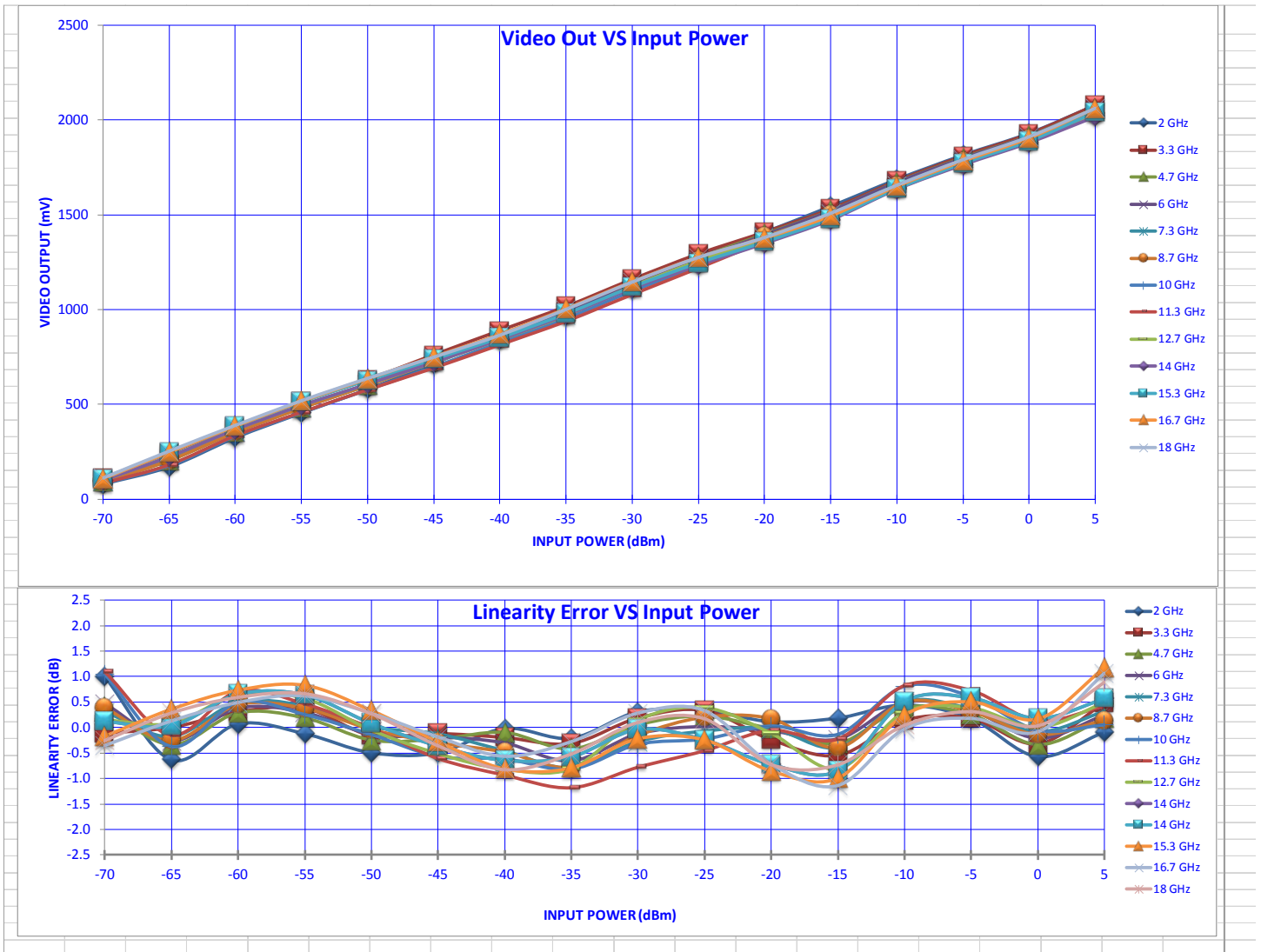
PL20010/1641

| LOG TRANSFER VS FREQUENCY | | | Tuesday, October 25, 2016 | | | | | | | | | | | | | | | | |
|------------------------------------|--------------------|------|---------------------------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|-------|----------------------|
| MODEL: SDLVA-6G18G-CD-2-OPT218-NRF | | | | | | | | | | | | | | | | PLANAR MONOLITHICS INDUSTRIES | | | |
| TESTED BY: S.Baughman | | | | | | | | | | | | | | | | 7311-F GROVE ROAD, FREDERICK, MD 21704 USA | | | |
| DATE: 10/25/16 | | | | | | | | | | | | | | | | TEL: 301-662-5019 FAX: 301-662-1731 | | | |
| SERIAL NO: PL20010 | | | | | | | | | | | | | | | | URL: WWW.PMI-RF.COM | | | |
| +25C | | | | | | | | | | | | | | | | EMAIL: SALES@PMI-RF.COM | | | |
| 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) | 1945 | 81 | 172 | 326 | 456 | 581 | 716 | 864 | 994 | 1143 | 1279 | 1408 | 1545 | 1687 | 1815 | 1930 | 2078 | Measured Value (mV) |
| | SLOPE (mV/dB) | 27 | 27 | -17 | 2 | -3 | -13 | -13 | -1 | -6 | 8 | 9 | 3 | 5 | 12 | 5 | -15 | -2 | Error (mV) |
| | | | 1.00 | -0.63 | 0.07 | -0.12 | -0.49 | -0.50 | -0.02 | -0.21 | 0.31 | 0.34 | 0.11 | 0.18 | 0.44 | 0.18 | -0.57 | -0.09 | LINEARITY ERROR (dB) |
| 3.3 GHz | INTERCEPT (mV) | 1934 | 111 | 244 | 382 | 514 | 630 | 761 | 889 | 1016 | 1159 | 1293 | 1408 | 1530 | 1678 | 1809 | 1926 | 2077 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26 | -3 | 0 | 8 | 10 | -4 | -3 | -5 | -8 | 5 | 9 | -6 | -14 | 4 | 5 | -8 | 13 | Error (mV) |
| | | | -0.11 | 0.00 | 0.31 | 0.38 | -0.16 | -0.12 | -0.20 | -0.31 | 0.18 | 0.34 | -0.24 | -0.55 | 0.14 | 0.18 | -0.32 | 0.48 | LINEARITY ERROR (dB) |
| 4.7 GHz | INTERCEPT (mV) | 1924 | 93 | 205 | 353 | 482 | 602 | 734 | 869 | 992 | 1136 | 1272 | 1397 | 1521 | 1671 | 1799 | 1915 | 2060 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26.3 | 11 | -9 | 8 | 5 | -6 | -6 | -3 | -11 | 1 | 6 | -1 | -8 | 10 | 7 | -9 | 5 | Error (mV) |
| | | | 0.41 | -0.34 | 0.29 | 0.19 | -0.24 | -0.23 | -0.10 | -0.42 | 0.05 | 0.22 | -0.02 | -0.31 | 0.39 | 0.26 | -0.33 | 0.18 | LINEARITY ERROR (dB) |
| 6 GHz | INTERCEPT (mV) | 1919 | 94 | 206 | 354 | 483 | 603 | 733 | 861 | 983 | 1128 | 1263 | 1392 | 1519 | 1669 | 1796 | 1913 | 2056 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26.2 | 12 | -7 | 10 | 8 | -4 | -5 | -8 | -17 | -3 | 0 | -2 | -6 | 13 | 9 | -6 | 6 | Error (mV) |
| | | | 0.46 | -0.27 | 0.37 | 0.29 | -0.14 | -0.18 | -0.31 | -0.66 | -0.13 | 0.01 | -0.07 | -0.23 | 0.49 | 0.33 | -0.21 | 0.24 | LINEARITY ERROR (dB) |
| 7.3 GHz | INTERCEPT (mV) | 1902 | 95 | 212 | 359 | 487 | 606 | 732 | 853 | 974 | 1117 | 1252 | 1383 | 1503 | 1656 | 1782 | 1900 | 2040 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.9 | 8 | -5 | 13 | 11 | 0 | -3 | -12 | -21 | -7 | -2 | -1 | -10 | 13 | 9 | -2 | 8 | Error (mV) |
| | | | 0.31 | -0.18 | 0.49 | 0.42 | 0.01 | -0.13 | -0.46 | -0.79 | -0.28 | -0.07 | -0.02 | -0.39 | 0.51 | 0.36 | -0.09 | 0.31 | LINEARITY ERROR (dB) |
| 8.7 GHz | INTERCEPT (mV) | 1900 | 93 | 206 | 354 | 482 | 601 | 724 | 849 | 971 | 1117 | 1256 | 1385 | 1500 | 1653 | 1778 | 1896 | 2033 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26 | 10 | -7 | 12 | 10 | -1 | -8 | -12 | -20 | -4 | 5 | 4 | -10 | 13 | 8 | -4 | 4 | Error (mV) |
| | | | 0.39 | -0.26 | 0.45 | 0.38 | -0.04 | -0.30 | -0.48 | -0.78 | -0.15 | 0.20 | 0.17 | -0.40 | 0.50 | 0.32 | -0.14 | 0.14 | LINEARITY ERROR (dB) |
| 10 GHz | INTERCEPT (mV) | 1892 | 82 | 176 | 330 | 455 | 576 | 696 | 826 | 952 | 1096 | 1230 | 1368 | 1495 | 1651 | 1777 | 1891 | 2025 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26.3 | 27 | -10 | 13 | 7 | -4 | -15 | -16 | -21 | -9 | -6 | 1 | -4 | 21 | 16 | -1 | 1 | Error (mV) |
| | | | 1.05 | -0.37 | 0.49 | 0.25 | -0.14 | -0.57 | -0.62 | -0.82 | -0.33 | -0.23 | 0.03 | -0.14 | 0.80 | 0.60 | -0.05 | 0.05 | LINEARITY ERROR (dB) |
| 11.3 GHz | INTERCEPT (mV) | 1881 | 83 | 181 | 334 | 458 | 576 | 691 | 813 | 937 | 1078 | 1217 | 1358 | 1484 | 1642 | 1770 | 1885 | 2023 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26.1 | 29 | -4 | 19 | 12 | 0 | -16 | -24 | -31 | -20 | -12 | -1 | -6 | 22 | 19 | 4 | 11 | Error (mV) |
| | | | 1.10 | -0.15 | 0.72 | 0.47 | -0.01 | -0.61 | -0.93 | -1.18 | -0.78 | -0.46 | -0.05 | -0.23 | 0.83 | 0.73 | 0.14 | 0.42 | LINEARITY ERROR (dB) |
| 12.7 GHz | INTERCEPT (mV) | 1884 | 99 | 225 | 367 | 493 | 605 | 721 | 841 | 969 | 1121 | 1255 | 1370 | 1480 | 1636 | 1766 | 1884 | 2024 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.6 | 4 | 2 | 16 | 14 | -1 | -13 | -21 | -21 | 4 | 10 | -3 | -21 | 8 | 10 | 0 | 12 | Error (mV) |
| | | | 0.15 | 0.08 | 0.63 | 0.57 | -0.05 | -0.51 | -0.82 | -0.81 | 0.14 | 0.39 | -0.11 | -0.81 | 0.30 | 0.38 | 0.00 | 0.48 | LINEARITY ERROR (dB) |
| 14 GHz | INTERCEPT (mV) | 1876 | 98 | 223 | 366 | 493 | 606 | 722 | 842 | 971 | 1112 | 1234 | 1349 | 1473 | 1635 | 1764 | 1881 | 2018 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.5 | 3 | 1 | 17 | 16 | 2 | -9 | -16 | -15 | -1 | -6 | -18 | -22 | 13 | 15 | 5 | 14 | Error (mV) |
| | | | 0.13 | 0.04 | 0.66 | 0.65 | 0.09 | -0.36 | -0.64 | -0.57 | -0.03 | -0.24 | -0.72 | -0.85 | 0.52 | 0.59 | 0.18 | 0.57 | LINEARITY ERROR (dB) |
| 15.3 GHz | INTERCEPT (mV) | 1885 | 109 | 249 | 385 | 514 | 628 | 739 | 852 | 979 | 1120 | 1246 | 1357 | 1480 | 1638 | 1771 | 1889 | 2041 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.3 | -4 | 9 | 19 | 21 | 9 | -7 | -21 | -20 | -6 | -6 | -22 | -25 | 6 | 13 | 4 | 30 | Error (mV) |
| | | | -0.17 | 0.36 | 0.73 | 0.83 | 0.34 | -0.28 | -0.81 | -0.79 | -0.22 | -0.24 | -0.85 | -0.99 | 0.25 | 0.51 | 0.17 | 1.17 | LINEARITY ERROR (dB) |
| 16.7 GHz | INTERCEPT (mV) | 1906 | 109 | 249 | 386 | 517 | 636 | 752 | 870 | 1005 | 1147 | 1276 | 1377 | 1494 | 1650 | 1783 | 1904 | 2061 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.5 | -9 | 3 | 12 | 16 | 7 | -5 | -14 | -7 | 7 | 8 | -18 | -29 | -1 | 5 | -2 | 27 | Error (mV) |
| | | | -0.36 | 0.12 | 0.49 | 0.62 | 0.27 | -0.18 | -0.56 | -0.28 | 0.28 | 0.33 | -0.72 | -1.14 | -0.03 | 0.18 | -0.09 | 1.06 | LINEARITY ERROR (dB) |
| 18 GHz | INTERCEPT (mV) | 1910 | 110 | 252 | 388 | 518 | 636 | 748 | 864 | 1000 | 1144 | 1274 | 1379 | 1507 | 1655 | 1790 | 1911 | 2061 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.6 | -7 | 7 | 15 | 17 | 7 | -8 | -21 | -13 | 3 | 5 | -18 | -19 | 1 | 8 | 1 | 23 | Error (mV) |
| | | | -0.25 | 0.29 | 0.60 | 0.67 | 0.28 | -0.35 | -0.83 | -0.52 | 0.10 | 0.18 | -0.73 | -0.73 | 0.05 | 0.32 | 0.04 | 0.89 | LINEARITY ERROR (dB) |
| | Average Slope (mV) | 25.9 | | | | | | | | | | | | | | | | | |
| | Flatness | ± dB | 0.57 | 1.52 | 1.18 | 1.2 | 1.14 | 1.33 | 1.45 | 1.5 | 1.54 | 1.45 | 1.12 | 1.37 | 0.99 | 0.97 | 0.93 | 1.14 | |



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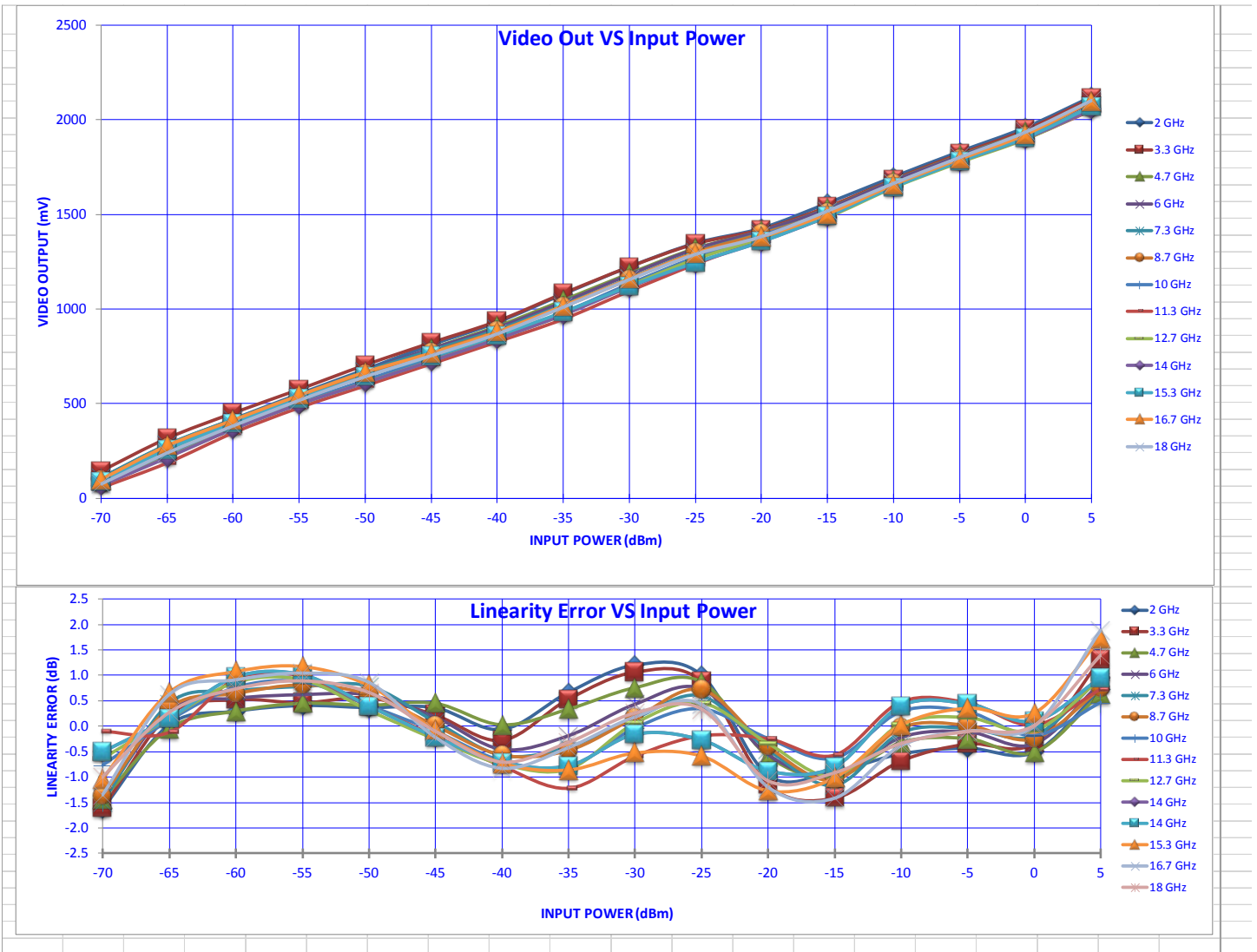
PL20010/1641

| LOG TRANSFER VS FREQUENCY | | | Tuesday, October 25, 2016 | | | | | | | | | | | | | PLANAR MONOLITHICS INDUSTRIES 7311-F GROVE ROAD, FREDERICK, MD 21704 USA TEL: 301-662-5019 FAX: 301-662-1731 URL: WWW.PMI-RF.COM EMAIL: SALES@PMI-RF.COM | | | |
|------------------------------------|--------------------|------|---------------------------|-------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--|-------|------|----------------------|
| MODEL: SDLVA-6G18G-CD-2-OPT218-NRF | | | | | | | | | | | | | | | | | | | |
| TESTED BY: S.Baughman | | | | | | | | | | | | | | | | | | | |
| DATE: 10/25/16 | | | | | | | | | | | | | | | | | | | |
| SERIAL NO: PL20010 | | | | | | | | | | | | | | | | | | | |
| -40C | | | | | | | | | | | | | | | | | | | |
| 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) | 1971 | 108 | 281 | 418 | 551 | 680 | 810 | 929 | 1078 | 1222 | 1347 | 1426 | 1558 | 1697 | 1830 | 1958 | 2120 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26 | -42 | 1 | 8 | 11 | 9 | 9 | -2 | 17 | 31 | 26 | -25 | -23 | -14 | -11 | -13 | 19 | Error (mV) |
| | | | -1.62 | 0.03 | 0.29 | 0.40 | 0.36 | 0.36 | -0.07 | 0.66 | 1.20 | 1.00 | -0.96 | -0.89 | -0.54 | -0.43 | -0.51 | 0.72 | LINEARITY ERROR (dB) |
| 3.3 GHz | INTERCEPT (mV) | 1955 | 143 | 316 | 450 | 575 | 704 | 822 | 936 | 1063 | 1223 | 1345 | 1420 | 1540 | 1665 | 1820 | 1947 | 2115 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.3 | -41 | 6 | 13 | 12 | 14 | 6 | -7 | 14 | 27 | 22 | -29 | -36 | -17 | -9 | -8 | 33 | Error (mV) |
| | | | -1.61 | 0.23 | 0.52 | 0.46 | 0.56 | 0.22 | -0.27 | 0.53 | 1.07 | 0.89 | -1.15 | -1.41 | -0.68 | -0.35 | -0.33 | 1.31 | LINEARITY ERROR (dB) |
| 4.7 GHz | INTERCEPT (mV) | 1948 | 91 | 257 | 396 | 530 | 659 | 790 | 909 | 1047 | 1188 | 1321 | 1413 | 1532 | 1680 | 1812 | 1935 | 2095 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26 | -37 | -1 | 8 | 12 | 11 | 12 | 1 | 9 | 20 | 23 | -15 | -26 | -8 | -6 | -13 | 17 | Error (mV) |
| | | | -1.44 | -0.05 | 0.29 | 0.45 | 0.41 | 0.45 | 0.02 | 0.33 | 0.75 | 0.87 | -0.59 | -1.02 | -0.33 | -0.25 | -0.52 | 0.64 | LINEARITY ERROR (dB) |
| 6 GHz | INTERCEPT (mV) | 1938 | 107 | 280 | 414 | 544 | 672 | 789 | 901 | 1036 | 1180 | 1316 | 1411 | 1528 | 1676 | 1807 | 1929 | 2088 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.6 | -37 | 8 | 14 | 16 | 16 | 5 | -12 | -5 | 11 | 19 | -14 | -25 | -6 | -3 | -9 | 22 | Error (mV) |
| | | | -1.43 | 0.32 | 0.55 | 0.62 | 0.61 | 0.18 | -0.45 | -0.19 | 0.43 | 0.74 | -0.56 | -0.99 | -0.22 | -0.11 | -0.35 | 0.85 | LINEARITY ERROR (dB) |
| 7.3 GHz | INTERCEPT (mV) | 1920 | 107 | 283 | 416 | 545 | 672 | 781 | 891 | 1022 | 1163 | 1301 | 1401 | 1510 | 1663 | 1792 | 1915 | 2071 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.4 | -38 | 11 | 17 | 20 | 20 | 2 | -15 | -10 | 4 | 15 | -12 | -30 | -3 | -1 | -5 | 24 | Error (mV) |
| | | | -1.50 | 0.44 | 0.69 | 0.78 | 0.79 | 0.08 | -0.58 | -0.41 | 0.15 | 0.59 | -0.46 | -1.17 | -0.13 | -0.04 | -0.19 | 0.96 | LINEARITY ERROR (dB) |
| 8.7 GHz | INTERCEPT (mV) | 1919 | 96 | 268 | 403 | 535 | 658 | 770 | 883 | 1013 | 1157 | 1299 | 1398 | 1509 | 1663 | 1792 | 1913 | 2066 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.5 | -35 | 9 | 17 | 21 | 16 | 0 | -14 | -12 | 4 | 18 | -10 | -27 | -1 | 1 | -6 | 19 | Error (mV) |
| | | | -1.37 | 0.36 | 0.65 | 0.82 | 0.63 | 0.01 | -0.56 | -0.47 | 0.16 | 0.72 | -0.40 | -1.06 | -0.03 | 0.02 | -0.24 | 0.75 | LINEARITY ERROR (dB) |
| 10 GHz | INTERCEPT (mV) | 1915 | 73 | 226 | 373 | 506 | 624 | 741 | 856 | 983 | 1133 | 1273 | 1388 | 1508 | 1662 | 1792 | 1910 | 2057 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26 | -20 | 3 | 20 | 23 | 10 | -3 | -18 | -21 | -1 | 9 | -6 | -17 | 7 | 7 | -5 | 12 | Error (mV) |
| | | | -0.77 | 0.11 | 0.76 | 0.87 | 0.40 | -0.11 | -0.69 | -0.81 | -0.04 | 0.34 | -0.25 | -0.63 | 0.28 | 0.28 | -0.19 | 0.46 | LINEARITY ERROR (dB) |
| 11.3 GHz | INTERCEPT (mV) | 1900 | 57 | 188 | 347 | 480 | 596 | 712 | 828 | 948 | 1096 | 1238 | 1368 | 1491 | 1650 | 1781 | 1901 | 2051 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26.3 | -3 | -3 | 24 | 26 | 10 | -5 | -21 | -32 | -15 | -5 | -6 | -15 | 13 | 12 | 1 | 19 | Error (mV) |
| | | | -0.10 | -0.12 | 0.93 | 0.99 | 0.40 | -0.19 | -0.78 | -1.22 | -0.59 | -0.19 | -0.25 | -0.57 | 0.48 | 0.46 | 0.02 | 0.73 | LINEARITY ERROR (dB) |
| 12.7 GHz | INTERCEPT (mV) | 1900 | 69 | 219 | 367 | 498 | 612 | 727 | 844 | 971 | 1124 | 1264 | 1373 | 1486 | 1642 | 1775 | 1898 | 2054 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.9 | -16 | 4 | 22 | 24 | 8 | -7 | -19 | -22 | 1 | 12 | -9 | -25 | 1 | 4 | -2 | 24 | Error (mV) |
| | | | -0.64 | 0.15 | 0.86 | 0.91 | 0.31 | -0.26 | -0.74 | -0.84 | 0.06 | 0.46 | -0.34 | -0.98 | 0.04 | 0.17 | -0.09 | 0.93 | LINEARITY ERROR (dB) |
| 14 GHz | INTERCEPT (mV) | 1898 | 66 | 213 | 364 | 495 | 609 | 723 | 840 | 968 | 1114 | 1241 | 1355 | 1487 | 1648 | 1779 | 1900 | 2052 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26 | -13 | 4 | 25 | 26 | 10 | -6 | -19 | -20 | -4 | -7 | -23 | -21 | 10 | 11 | 2 | 25 | Error (mV) |
| | | | -0.51 | 0.15 | 0.96 | 1.00 | 0.39 | -0.22 | -0.71 | -0.79 | -0.17 | -0.28 | -0.89 | -0.81 | 0.39 | 0.43 | 0.09 | 0.94 | LINEARITY ERROR (dB) |
| 15.3 GHz | INTERCEPT (mV) | 1898 | 87 | 258 | 396 | 526 | 644 | 749 | 860 | 984 | 1120 | 1246 | 1356 | 1490 | 1644 | 1780 | 1905 | 2070 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.5 | -27 | 17 | 28 | 30 | 21 | -2 | -18 | -22 | -13 | -15 | -32 | -26 | 1 | 9 | 7 | 44 | Error (mV) |
| | | | -1.04 | 0.67 | 1.08 | 1.18 | 0.81 | -0.08 | -0.72 | -0.86 | -0.53 | -0.59 | -1.27 | -1.02 | 0.02 | 0.36 | 0.26 | 1.73 | LINEARITY ERROR (dB) |
| 16.7 GHz | INTERCEPT (mV) | 1922 | 101 | 279 | 414 | 545 | 668 | 768 | 880 | 1018 | 1161 | 1295 | 1381 | 1503 | 1657 | 1792 | 1922 | 2098 | Measured Value (mV) |
| | SLOPE (mV/dB) | 25.5 | -35 | 16 | 23 | 27 | 22 | -6 | -21 | -11 | 5 | 11 | -31 | -36 | -10 | -3 | 0 | 48 | Error (mV) |
| | | | -1.35 | 0.62 | 0.91 | 1.04 | 0.86 | -0.22 | -0.83 | -0.42 | 0.18 | 0.43 | -1.20 | -1.42 | -0.39 | -0.10 | 0.00 | 1.89 | LINEARITY ERROR (dB) |
| 18 GHz | INTERCEPT (mV) | 1936 | 77 | 241 | 384 | 519 | 644 | 755 | 870 | 1011 | 1157 | 1290 | 1384 | 1519 | 1665 | 1802 | 1936 | 2103 | Measured Value (mV) |
| | SLOPE (mV/dB) | 26.2 | -38 | 7 | 19 | 23 | 17 | -3 | -18 | -8 | 7 | 9 | -28 | -34 | -8 | -3 | 0 | 38 | Error (mV) |
| | | | -1.00 | 0.27 | 0.73 | 0.89 | 0.66 | -0.10 | -0.71 | -0.32 | 0.26 | 0.34 | -1.07 | -0.92 | -0.34 | -0.11 | 0.01 | 1.39 | LINEARITY ERROR (dB) |
| | Average Slope (mV) | 25.8 | | | | | | | | | | | | | | | | | |



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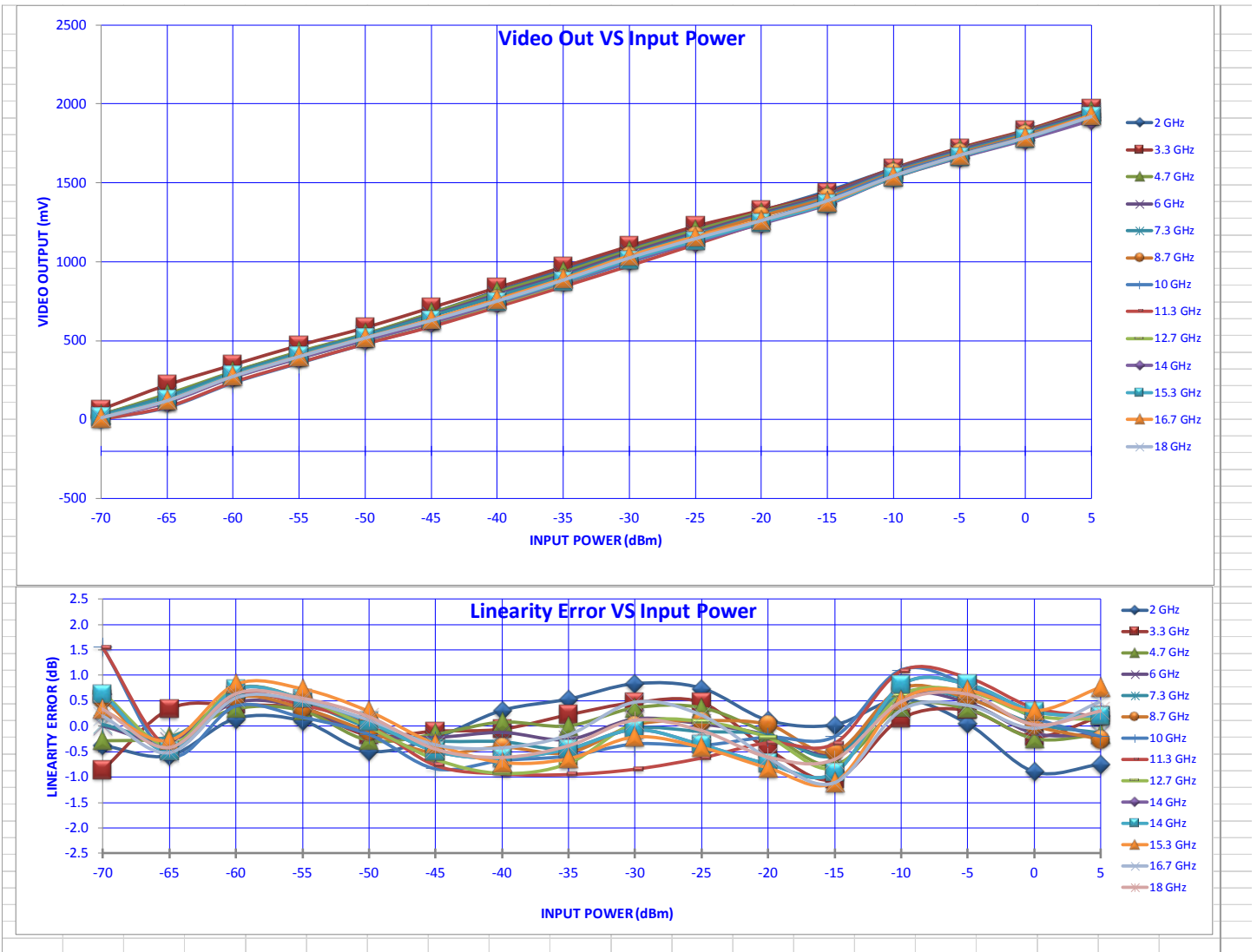
PL20010/1641

| LOG TRANSFER VS FREQUENCY | | Tuesday, October 25, 2016 | | | | | | | | | | | | | | PLANAR MONOLITHICS INDUSTRIES 7311-F GROVE ROAD, FREDERICK, MD 21704 USA TEL: 301-662-5019 FAX: 301-662-1731 URL: WWW.PMI-RF.COM EMAIL: SALES@PMI-RF.COM | | | |
|------------------------------------|----------------|---------------------------|--------------------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|--|---------------------|----------------------|----------------------|
| MODEL: SDLVA-6G18G-CD-2-OPT218-NRF | | | | | | | | | | | | | | | | | | | |
| TESTED BY: S.Baughman | | | | | | | | | | | | | | | | | | | |
| DATE: 10/25/16 | | | | | | | | | | | | | | | | | | | |
| SERIAL NO: PL20010 | | | | | | | | | | | | | | | | | | | |
| +85C | | | | | | | | | | | | | | | | | | | |
| 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) | 1833 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.6 | 28 | 151 | 298 | 425 | 538 | 673 | 815 | 949 | 1085 | 1211 | 1323 | 1449 | 1590 | 1706 | 1810 | 1942 | Error (mV) |
| | | | -10 | -15 | 4 | 3 | -13 | -6 | 8 | 14 | 21 | 19 | 3 | 1 | 13 | 1 | -23 | -19 | LINEARITY ERROR (dB) |
| | | | -0.38 | -0.59 | 0.15 | 0.10 | -0.50 | -0.23 | 0.30 | 0.53 | 0.83 | 0.74 | 0.11 | 0.02 | 0.52 | 0.04 | -0.90 | -0.75 | |
| 3.3 GHz | INTERCEPT (mV) | 1837 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25 | 66 | 221 | 348 | 471 | 583 | 710 | 836 | 968 | 1099 | 1224 | 1326 | 1436 | 1591 | 1720 | 1832 | 1967 | Error (mV) |
| | | | -22 | 8 | 10 | 8 | -4 | -2 | -1 | 6 | 12 | 12 | -11 | -26 | 4 | 8 | -5 | -5 | LINEARITY ERROR (dB) |
| | | | -0.87 | 0.34 | 0.42 | 0.34 | -0.18 | -0.10 | -0.06 | 0.22 | 0.47 | 0.47 | -0.45 | -1.05 | 0.15 | 0.31 | -0.21 | 0.20 | |
| 4.7 GHz | INTERCEPT (mV) | 1830 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.6 | -7 | -5 | 9 | 8 | -7 | -4 | 2 | 0 | 9 | 9 | -3 | -19 | 10 | 9 | -6 | -4 | Error (mV) |
| | | | -0.29 | -0.21 | 0.35 | 0.31 | -0.27 | -0.15 | 0.09 | 0.01 | 0.37 | 0.37 | -0.14 | -0.19 | 0.38 | 0.34 | -0.24 | -0.16 | LINEARITY ERROR (dB) |
| | | | 26 | 147 | 295 | 421 | 536 | 663 | 794 | 919 | 1058 | 1184 | 1307 | 1426 | 1584 | 1709 | 1822 | 1950 | |
| 6 GHz | INTERCEPT (mV) | 1826 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.7 | 0 | -7 | 12 | 9 | -4 | -6 | -3 | -7 | 4 | 1 | -4 | -14 | 15 | 12 | -4 | -4 | Error (mV) |
| | | | 0.00 | -0.29 | 0.47 | 0.37 | -0.16 | -0.22 | -0.13 | -0.26 | 0.14 | 0.04 | -0.17 | -0.54 | 0.60 | 0.46 | -0.14 | -0.16 | LINEARITY ERROR (dB) |
| | | | 23 | 144 | 292 | 417 | 532 | 653 | 780 | 904 | 1042 | 1168 | 1294 | 1411 | 1570 | 1695 | 1810 | 1933 | |
| 7.3 GHz | INTERCEPT (mV) | 1809 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.5 | 1 | -6 | 15 | 12 | -1 | -7 | -8 | -11 | -1 | -3 | -4 | -15 | 16 | 14 | 1 | -3 | Error (mV) |
| | | | 0.03 | -0.23 | 0.57 | 0.47 | -0.02 | -0.28 | -0.31 | -0.45 | -0.04 | -0.10 | -0.17 | -0.58 | 0.65 | 0.54 | 0.05 | -0.13 | LINEARITY ERROR (dB) |
| | | | 13 | 116 | 271 | 395 | 512 | 630 | 762 | 888 | 1031 | 1162 | 1289 | 1404 | 1565 | 1689 | 1804 | 1926 | |
| 8.7 GHz | INTERCEPT (mV) | 1804 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.8 | 14 | -12 | 14 | 9 | -3 | -14 | -11 | -14 | 0 | 3 | 1 | -13 | 19 | 14 | 0 | -7 | Error (mV) |
| | | | 0.53 | -0.47 | 0.54 | 0.35 | -0.11 | -0.54 | -0.42 | -0.53 | 0.02 | 0.10 | 0.03 | -0.51 | 0.73 | 0.54 | 0.00 | -0.26 | LINEARITY ERROR (dB) |
| | | | -1 | 74 | 230 | 355 | 477 | 590 | 725 | 858 | 995 | 1125 | 1260 | 1391 | 1556 | 1679 | 1793 | 1914 | |
| 10 GHz | INTERCEPT (mV) | 1789 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 26.1 | 41 | -15 | 10 | 5 | -4 | -22 | -18 | -15 | -9 | -10 | -6 | -5 | 29 | 21 | 4 | -5 | Error (mV) |
| | | | 1.56 | -0.57 | 0.39 | 0.17 | -0.16 | -0.84 | -0.68 | -0.59 | -0.35 | -0.38 | -0.22 | -0.21 | 1.10 | 0.81 | 0.17 | -0.21 | LINEARITY ERROR (dB) |
| | | | 0 | 79 | 235 | 359 | 478 | 587 | 712 | 841 | 973 | 1108 | 1245 | 1374 | 1540 | 1666 | 1780 | 1905 | |
| 11.3 GHz | INTERCEPT (mV) | 1771 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.9 | 40 | -11 | 16 | 11 | 1 | -20 | -24 | -24 | -22 | -16 | -8 | -9 | 28 | 25 | 9 | 5 | Error (mV) |
| | | | 1.54 | -0.41 | 0.62 | 0.42 | 0.02 | -0.77 | -0.93 | -0.95 | -0.84 | -0.62 | -0.33 | -0.34 | 1.08 | 0.95 | 0.36 | 0.19 | LINEARITY ERROR (dB) |
| | | | 10 | 111 | 266 | 388 | 501 | 612 | 732 | 864 | 1011 | 1139 | 1258 | 1370 | 1533 | 1662 | 1777 | 1902 | |
| 12.7 GHz | INTERCEPT (mV) | 1772 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.4 | 17 | -9 | 19 | 14 | 0 | -16 | -23 | -18 | 1 | 2 | -6 | -21 | 15 | 17 | 5 | 3 | Error (mV) |
| | | | 0.66 | -0.37 | 0.73 | 0.54 | -0.02 | -0.65 | -0.92 | -0.73 | 0.06 | 0.10 | -0.22 | -0.81 | 0.60 | 0.68 | 0.21 | 0.13 | LINEARITY ERROR (dB) |
| | | | 9 | 107 | 264 | 386 | 501 | 613 | 736 | 867 | 1003 | 1122 | 1239 | 1361 | 1531 | 1658 | 1771 | 1895 | |
| 14 GHz | INTERCEPT (mV) | 1764 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.3 | 16 | -12 | 18 | 14 | 2 | -12 | -16 | -11 | -2 | -9 | -19 | -23 | 20 | 21 | 7 | 5 | Error (mV) |
| | | | 0.64 | -0.49 | 0.72 | 0.54 | 0.09 | -0.48 | -0.62 | -0.44 | -0.07 | -0.36 | -0.74 | -0.91 | 0.81 | 0.83 | 0.29 | 0.20 | LINEARITY ERROR (dB) |
| | | | 14 | 125 | 279 | 403 | 518 | 628 | 745 | 873 | 1010 | 1131 | 1247 | 1366 | 1533 | 1664 | 1780 | 1918 | |
| 15.3 GHz | INTERCEPT (mV) | 1772 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.2 | 8 | -7 | 21 | 19 | 8 | -9 | -18 | -16 | -5 | -10 | -21 | -28 | 13 | 18 | 8 | 19 | Error (mV) |
| | | | 0.33 | -0.27 | 0.83 | 0.74 | 0.30 | -0.34 | -0.71 | -0.64 | -0.21 | -0.41 | -0.82 | -1.10 | 0.52 | 0.71 | 0.30 | 0.77 | LINEARITY ERROR (dB) |
| | | | 12 | 121 | 276 | 402 | 520 | 635 | 761 | 895 | 1039 | 1160 | 1266 | 1381 | 1545 | 1675 | 1791 | 1932 | |
| 16.7 GHz | INTERCEPT (mV) | 1792 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.5 | 5 | -13 | 14 | 13 | 3 | -9 | -11 | -4 | 12 | 6 | -16 | -28 | 8 | 10 | -1 | 12 | Error (mV) |
| | | | 0.20 | -0.52 | 0.55 | 0.49 | 0.12 | -0.37 | -0.43 | -0.17 | 0.47 | 0.22 | -0.63 | -1.12 | 0.31 | 0.41 | -0.04 | 0.49 | LINEARITY ERROR (dB) |
| | | | 12 | 120 | 274 | 399 | 517 | 628 | 751 | 884 | 1024 | 1146 | 1260 | 1386 | 1542 | 1673 | 1785 | 1919 | |
| 18 GHz | INTERCEPT (mV) | 1784 | | | | | | | | | | | | | | | Measured Value (mV) | | |
| | SLOPE (mV/dB) | 25.4 | 8 | -11 | 16 | 14 | 5 | -12 | -16 | -10 | 3 | -2 | -15 | -17 | 12 | 16 | 1 | 8 | Error (mV) |
| | | | 0.33 | -0.42 | 0.63 | 0.55 | 0.18 | -0.45 | -0.62 | -0.39 | 0.11 | -0.09 | -0.61 | -0.66 | 0.48 | 0.63 | 0.03 | 0.30 | LINEARITY ERROR (dB) |
| | | | Average Slope (mV) | 25.5 | | | | | | | | | | | | | | | |



**SUMMARY TEST DATA
ON
SDLVA-6G18G-CD-2-OPT218-NRF**

PL20010/1641





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