



**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-500HM**

PL26826/1943

| | | |
|---|--|----------------|
| Customer: | Tested By: <u>J.Emperador</u> | |
| SO No: | Temperature: <u>+25°C (Unless Otherwise Specified)</u> | |
| Model No: <u>SDLVA-2020-70 Opt 0518 A03 A07-500HM</u> | Date: <u>10/22/19</u> | |
| Serial No: <u>PL26826/1943</u> | Drawing No: <u>27610088</u> | Rev: <u>A1</u> |

| TEST ITEM NO | PARAMETERS | SPECIFIED VALUE | TEST RESULTS | QA QC |
|--------------|----------------------------|--------------------------------------|-------------------------------|------------|
| 1 | Frequency Range: | 0.5GHz to 18.0GHz | 0.5GHz to 18.0GHz See Plot | PMI QA1 |
| 2 | Frequency Flatness: | ±2.0dB Typ (0.5GHz to 18.0GHz) | ±1.5 dB See Plot | |
| 3 | TSS: | -65dBm Min (8.0 to 18.0GHz) | -65.5 dBm See Plot | |
| 4 | VSWR: | 3.0:1 (0.5 to 18.0GHz @ -20dBm) | In 2.3 :1 See Plot | |
| 5 | Logging Range | -65 dBm to +5 dBm | >-65 to +5 dBm See Plot | |
| 6 | Log Slope | 20mV/dB (±10% Tolerance) | 19.7 mV/dB See Plot | |
| 7 | Log Temperature Stability: | ±1.75dB (0°C to 60°C) | ± 1.16 dB See Plot | |
| 8 | Rise Time (10% to 90%): | 20ns Max | 14.8 ns See Plot | |
| 9 | Recover Time: | 200ns Max (-65 dBm to +5 dBm) | 165 ns See Plot | |
| 10 | Output Power: | +10dBm ±2.5dB Typ | 13.86 dBm See Plot | |
| 11 | Output Video Load: | 50Ω ±10% or as desired | Pass | |
| 12 | Power Supply: | +15V @ 600mA Max -15V @ 200mA Max | 495 mA 96 mA | PMI QA1 |

QA/QC Approval:  PMI QA1 Date: 5/26/20



**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-500HM**

PL26826/1943

LOGGING CHARACTERISTICS @+25C

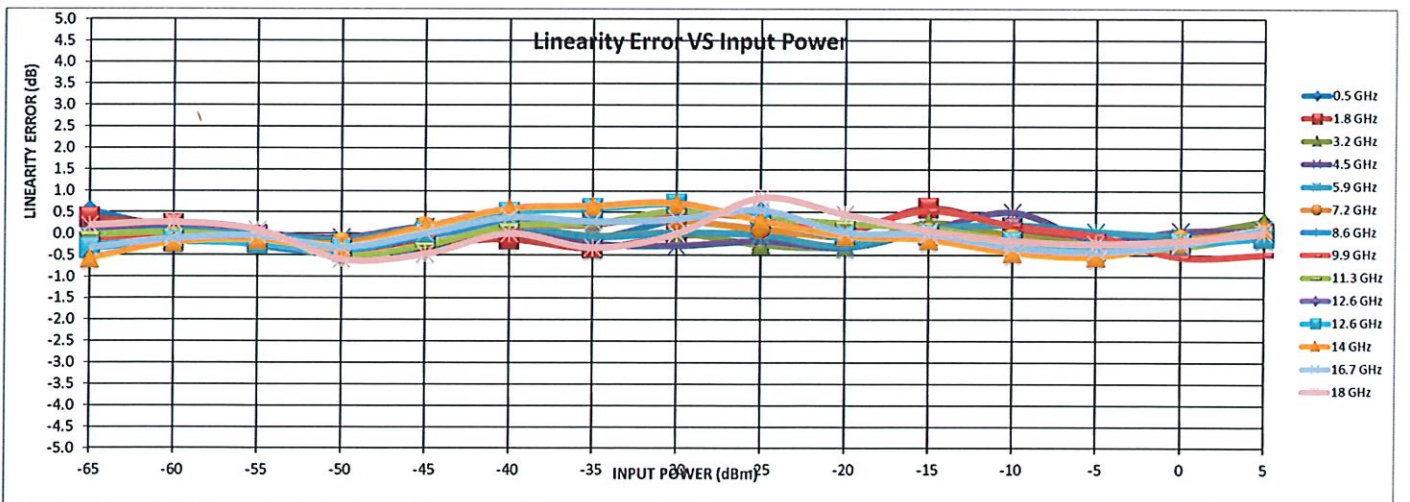
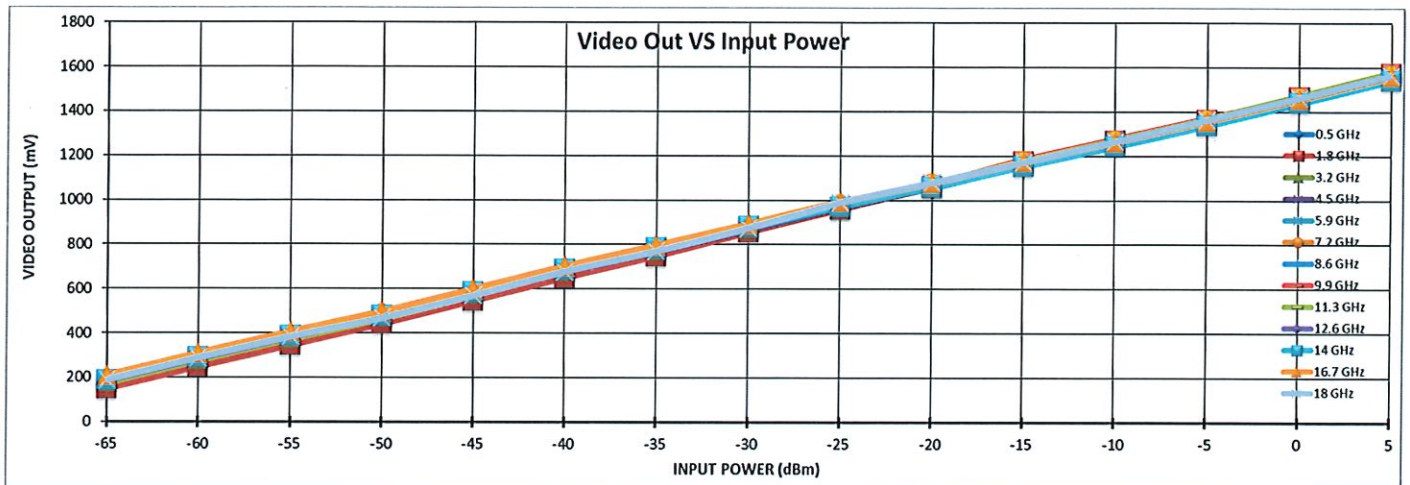
| LOG TRANSFER VS FREQUENCY | | Tuesday, October 22, 2019 | | | | | | | | | | | | | | RF Input Power (dBm) | |
|--|----------------|---------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|----------------------|
| MODEL: SDLVA-2020-70 OPT. 0518, A03, A07-500HM | | | | | | | | | | | | | | | | | |
| TESTED BY: J.Emperador | | Test Temp: +25C | | | | | | | | | | | | | | | |
| DATE: 10/21/19 | | | | | | | | | | | | | | | | | |
| SERIAL NO: PL26826 | | | | | | | | | | | | | | | | | |
| Frequency | | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | |
| 0.5 GHz | INTERCEPT (mV) | 1460 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 20.2 | | | | | | | | | | | | | | Error (mV) | |
| | | 0.55 | 0.09 | -0.27 | -0.48 | -0.34 | -0.05 | -0.11 | 0.33 | 0.52 | -0.04 | 0.10 | -0.11 | -0.32 | -0.13 | 0.26 | LINEARITY ERROR (dB) |
| 1.8 GHz | INTERCEPT (mV) | 1470 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 20.4 | | | | | | | | | | | | | | Error (mV) | |
| | | 0.36 | 0.20 | -0.05 | -0.31 | -0.22 | -0.13 | -0.34 | -0.05 | 0.04 | 0.03 | 0.60 | 0.15 | -0.15 | -0.16 | 0.03 | LINEARITY ERROR (dB) |
| 3.2 GHz | INTERCEPT (mV) | 1472 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.9 | | | | | | | | | | | | | | Error (mV) | |
| | | 0.01 | 0.13 | 0.00 | -0.17 | 0.10 | 0.18 | -0.05 | 0.03 | -0.25 | -0.28 | 0.25 | -0.03 | -0.20 | -0.03 | 0.30 | LINEARITY ERROR (dB) |
| 4.5 GHz | INTERCEPT (mV) | 1466 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.8 | | | | | | | | | | | | | | Error (mV) | |
| | | 0.09 | 0.15 | 0.00 | -0.10 | 0.16 | 0.12 | -0.23 | -0.28 | -0.17 | -0.32 | 0.09 | 0.50 | -0.15 | 0.06 | 0.07 | LINEARITY ERROR (dB) |
| 5.9 GHz | INTERCEPT (mV) | 1465 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.6 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.08 | 0.06 | -0.04 | -0.15 | 0.15 | 0.19 | -0.07 | 0.03 | -0.03 | -0.29 | 0.12 | 0.21 | 0.05 | -0.05 | -0.11 | LINEARITY ERROR (dB) |
| 7.2 GHz | INTERCEPT (mV) | 1466 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.5 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.26 | -0.09 | -0.13 | -0.22 | 0.16 | 0.38 | 0.29 | 0.30 | 0.11 | -0.08 | 0.04 | -0.10 | -0.34 | -0.12 | 0.05 | LINEARITY ERROR (dB) |
| 8.6 GHz | INTERCEPT (mV) | 1461 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.7 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.17 | 0.01 | -0.11 | -0.39 | -0.06 | 0.23 | 0.20 | 0.54 | 0.41 | -0.01 | -0.04 | -0.16 | -0.28 | -0.20 | 0.03 | LINEARITY ERROR (dB) |
| 9.9 GHz | INTERCEPT (mV) | 1472 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 20 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.12 | -0.01 | -0.16 | -0.50 | -0.24 | 0.16 | 0.22 | 0.47 | 0.38 | 0.13 | 0.54 | 0.20 | -0.05 | -0.54 | -0.49 | LINEARITY ERROR (dB) |
| 11.3 GHz | INTERCEPT (mV) | 1474 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 20 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.03 | 0.03 | -0.12 | -0.52 | -0.27 | 0.18 | 0.23 | 0.54 | 0.39 | 0.24 | 0.14 | -0.16 | -0.35 | -0.30 | 0.00 | LINEARITY ERROR (dB) |
| 12.6 GHz | INTERCEPT (mV) | 1453 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.4 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.34 | -0.18 | -0.23 | -0.39 | 0.02 | 0.49 | 0.69 | 0.69 | 0.33 | -0.08 | -0.03 | -0.18 | -0.39 | -0.23 | -0.08 | LINEARITY ERROR (dB) |
| 14 GHz | INTERCEPT (mV) | 1445 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.2 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.57 | -0.19 | -0.13 | -0.33 | 0.16 | 0.59 | 0.65 | 0.72 | 0.31 | -0.04 | -0.13 | -0.43 | -0.52 | -0.20 | 0.13 | LINEARITY ERROR (dB) |
| 16.7 GHz | INTERCEPT (mV) | 1462 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.2 | | | | | | | | | | | | | | Error (mV) | |
| | | -0.32 | -0.11 | -0.05 | -0.30 | 0.01 | 0.39 | 0.29 | 0.34 | 0.56 | 0.04 | 0.00 | -0.31 | -0.41 | -0.25 | 0.12 | LINEARITY ERROR (dB) |
| 18 GHz | INTERCEPT (mV) | 1466 | | | | | | | | | | | | | | Measured Value (mV) | |
| | SLOPE (mV/dB) | 19.7 | | | | | | | | | | | | | | Error (mV) | |
| | | 0.19 | 0.27 | 0.09 | -0.60 | -0.47 | 0.01 | -0.32 | 0.00 | 0.84 | 0.46 | 0.07 | -0.16 | -0.23 | -0.16 | 0.01 | LINEARITY ERROR (dB) |
| Flatness | | 1.5 | 1.5 | 1.5 | 1.4 | 1.3 | 1.3 | 1.2 | 0.9 | 0.8 | 0.6 | 0.7 | 0.8 | 0.8 | 0.8 | 0.9 | |
| Linearity Max.(dB)= | | 0.64 | | | | | | | | | | | | | | | |
| Linearity Min.(dB)= | | -0.60 | | | | | | | | | | | | | | | |
| Average Slope (mV/dB) | | 19.7 | | | | | | | | | | | | | | | |



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PL26826/1943

LOGGING CHARACTERISTICS @25C





**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-500HM**

PL26826/1943

LOGGING CHARACTERISTICS @ 0C

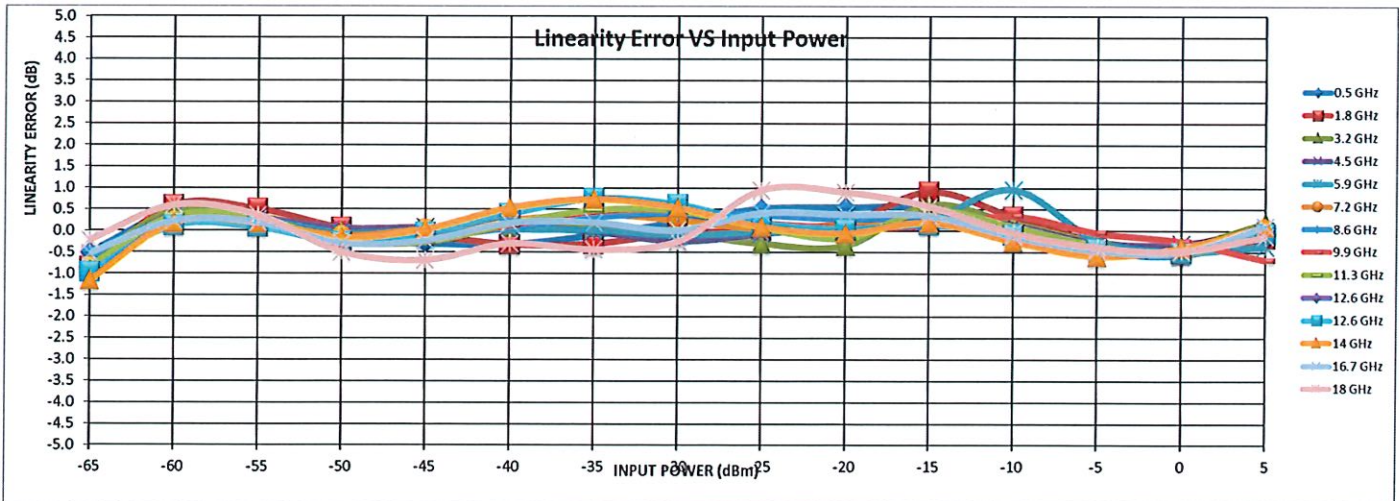
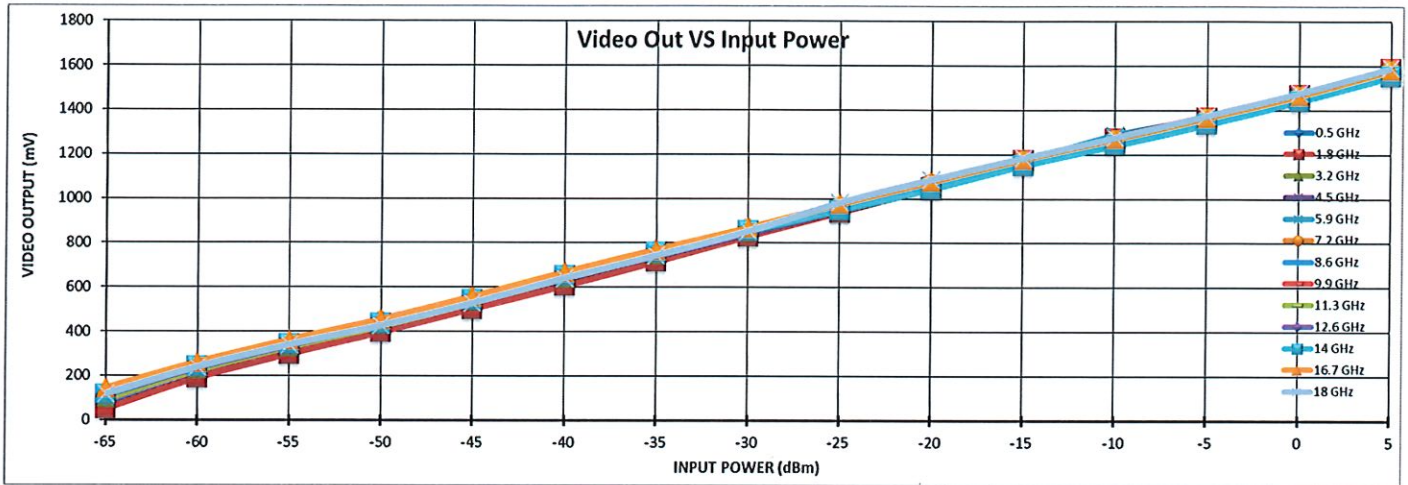
| LOG TRANSFER VS FREQUENCY | | Tuesday, October 22, 2019 | | | | | | | | | | | | | | | RF Input Power (dBm) | | |
|--|---------------------------------|---------------------------|------------|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|------------|------------|------------|-------------|-------------|--|----------------------|----------------------|
| MODEL: SDLVA-2020-70 OPT. 0518, A03, A07-500HM | | | | | | | | | | | | | | | | | Test Temp: +0C | | |
| TESTED BY: J.Emperador | | | | | | | | | | | | | | | | | PLANAR MONOLITHICS INDUSTRIES | | |
| DATE: 10/21/19 | | | | | | | | | | | | | | | | | 7311-F GROVE ROAD, FREDERICK, MD 21704 USA | | |
| SERIAL NO: PL26826 | | | | | | | | | | | | | | | | | TEL: 301-662-5019 FAX: 301-662-1731 | | |
| | | | | | | | | | | | | | | | | | URL: WWW.PMI-RF.COM | | |
| | | | | | | | | | | | | | | | | | EMAIL: SALES@PMI-RF.COM | | |
| Frequency | | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | Measured Value (mV) | Linearity Error (dB) | |
| 0.5 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1469 21.3 | 75 -11 | 201 9 | 303 4 | 400 -5 | 505 -6 | 611 -7 | 722 -2 | 835 5 | 948 11 | 1055 12 | 1161 11 | 1257 1 | 1353 -9 | 1457 -12 | 1574 -1 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.50 | 0.42 | 0.21 | -0.23 | -0.30 | -0.31 | -0.10 | 0.21 | 0.52 | 0.55 | 0.53 | 0.05 | -0.44 | -0.55 | -0.06 | Error (mV) | |
| 1.8 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1482 21.7 | 51 -19 | 191 13 | 298 11 | 397 1 | 502 -2 | 606 -7 | 715 -7 | 829 -1 | 939 0 | 1051 4 | 1176 20 | 1272 7 | 1368 -5 | 1471 -11 | 1587 -4 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.66 | 0.58 | 0.51 | 0.06 | -0.11 | -0.32 | -0.30 | -0.06 | 0.01 | 0.16 | 0.92 | 0.33 | -0.25 | -0.51 | -0.17 | Error (mV) | |
| 3.2 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1480 21 | 100 -15 | 230 10 | 332 7 | 430 0 | 536 1 | 642 2 | 747 2 | 849 0 | 949 -1 | 1053 -6 | 1178 -7 | 1274 13 | 1370 4 | 1473 -5 | 1589 -7 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.72 | 0.47 | 0.32 | -0.01 | 0.04 | 0.09 | 0.09 | -0.05 | -0.29 | -0.34 | 0.61 | 0.19 | -0.24 | -0.34 | 0.19 | Error (mV) | |
| 4.5 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1467 20.7 | 106 -15 | 232 7 | 334 6 | 433 1 | 537 2 | 641 2 | 742 0 | 841 -5 | 948 -1 | 1057 4 | 1165 8 | 1263 3 | 1358 -6 | 1461 -6 | 1571 0 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.73 | 0.35 | 0.28 | 0.06 | 0.08 | 0.10 | -0.02 | -0.24 | -0.07 | 0.19 | 0.41 | 0.14 | -0.27 | -0.30 | 0.01 | Error (mV) | |
| 5.9 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1475 20.7 | 116 -14 | 240 7 | 342 5 | 439 1 | 544 0 | 648 1 | 751 0 | 852 -2 | 957 -1 | 1062 1 | 1170 5 | 1288 20 | 1387 -4 | 1465 -10 | 1571 -7 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.67 | 0.32 | 0.25 | -0.06 | 0.01 | 0.04 | 0.02 | -0.10 | -0.03 | 0.05 | 0.27 | 0.97 | -0.21 | -0.48 | -0.35 | Error (mV) | |
| 7.2 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1474 20.6 | 119 -18 | 244 4 | 346 4 | 443 -2 | 549 1 | 656 5 | 762 8 | 862 5 | 961 1 | 1066 3 | 1172 6 | 1267 -1 | 1363 -3 | 1465 -9 | 1578 1 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.85 | 0.22 | 0.17 | -0.11 | 0.04 | 0.24 | 0.39 | 0.25 | 0.06 | 0.16 | 0.31 | -0.07 | -0.40 | -0.45 | 0.05 | Error (mV) | |
| 8.6 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1473 20.8 | 103 -19 | 232 6 | 335 5 | 429 -4 | 534 -3 | 643 2 | 752 7 | 858 9 | 961 8 | 1063 6 | 1167 6 | 1264 -1 | 1360 -9 | 1462 -11 | 1576 -1 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.90 | 0.31 | 0.26 | -0.22 | -0.17 | 0.08 | 0.32 | 0.42 | 0.37 | 0.28 | 0.28 | -0.05 | -0.43 | -0.53 | -0.04 | Error (mV) | |
| 9.9 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1481 21 | 93 -20 | 225 7 | 329 5 | 424 -5 | 530 -4 | 642 3 | 754 9 | 860 10 | 959 4 | 1062 2 | 1168 3 | 1278 7 | 1376 -1 | 1476 -5 | 1572 -14 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.96 | 0.31 | 0.25 | -0.23 | -0.20 | 0.13 | 0.45 | 0.48 | 0.19 | 0.08 | 0.12 | 0.35 | -0.04 | -0.25 | -0.68 | Error (mV) | |
| 11.3 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1481 21 | 96 -18 | 226 7 | 330 6 | 424 -5 | 529 -5 | 643 3 | 755 10 | 860 10 | 957 2 | 1057 -3 | 1176 10 | 1273 2 | 1369 -7 | 1470 -11 | 1586 0 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.84 | 0.34 | 0.28 | -0.25 | -0.26 | 0.16 | 0.48 | 0.47 | 0.08 | -0.16 | 0.49 | 0.10 | -0.34 | -0.54 | -0.02 | Error (mV) | |
| 12.6 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1455 20.4 | 112 -20 | 236 2 | 337 2 | 432 -5 | 538 -1 | 649 8 | 758 15 | 857 13 | 950 4 | 1049 1 | 1153 3 | 1250 -2 | 1345 -9 | 1445 -10 | 1556 -1 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.97 | 0.12 | 0.08 | -0.25 | -0.05 | 0.40 | 0.75 | 0.62 | 0.18 | 0.04 | 0.15 | -0.09 | -0.42 | -0.51 | -0.06 | Error (mV) | |
| 14 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1451 20.2 | 115 -23 | 243 4 | 344 4 | 438 -3 | 543 1 | 654 11 | 759 15 | 856 11 | 948 2 | 1046 -1 | 1152 4 | 1244 -5 | 1338 -12 | 1443 -8 | 1554 2 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -1.16 | 0.18 | 0.18 | -0.16 | 0.04 | 0.53 | 0.73 | 0.54 | 0.09 | -0.05 | 0.20 | -0.25 | -0.59 | -0.39 | 0.11 | Error (mV) | |
| 16.7 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1477 20.3 | 144 -11 | 261 5 | 362 4 | 454 -6 | 557 -5 | 667 4 | 769 4 | 867 0 | 977 9 | 1078 8 | 1179 7 | 1271 -3 | 1366 -9 | 1467 -10 | 1581 2 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.53 | 0.23 | 0.19 | -0.29 | -0.22 | 0.18 | 0.20 | 0.02 | 0.42 | 0.39 | 0.35 | -0.12 | -0.45 | -0.49 | 0.12 | Error (mV) | |
| 18 GHz | INTERCEPT (mV) SLOPE (mV/dB) | 1488 21 | 119 -5 | 241 12 | 341 8 | 428 -10 | 529 -14 | 642 -6 | 744 -9 | 853 -5 | 983 20 | 1087 19 | 1185 12 | 1277 -1 | 1375 -8 | 1478 -10 | 1590 -3 | Measured Value (mV) | LINEARITY ERROR (dB) |
| | | | -0.22 | 0.59 | 0.36 | -0.50 | -0.68 | -0.30 | -0.44 | -0.24 | 0.95 | 0.91 | 0.57 | -0.04 | -0.37 | -0.46 | -0.13 | Error (mV) | |
| Flatness | | | 2.2 | 1.7 | 1.5 | 1.4 | 1.3 | 1.5 | 1.3 | 0.9 | 1.1 | 1 | 0.8 | 1.1 | 0.9 | 0.8 | 0.9 | | |
| Linearity Max (dB) | | | | | | | | | | | | | | | | | | 0.97 | |
| Linearity Min (dB) | | | | | | | | | | | | | | | | | | -1.16 | |
| Average Slope (mV/dB) | | | | | | | | | | | | | | | | | | 20.8 | |



**SUMMARY TEST DATA
ON
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A07-500HM**

PL26826/1943

LOGGING CHARACTERISTICS @ 0C





SUMMARY TEST DATA ON SDLVA-2020-70 Opt 0518 A03 A07-500HM

PL26826/1943

LOGGING CHARACTERISTICS @ +60C

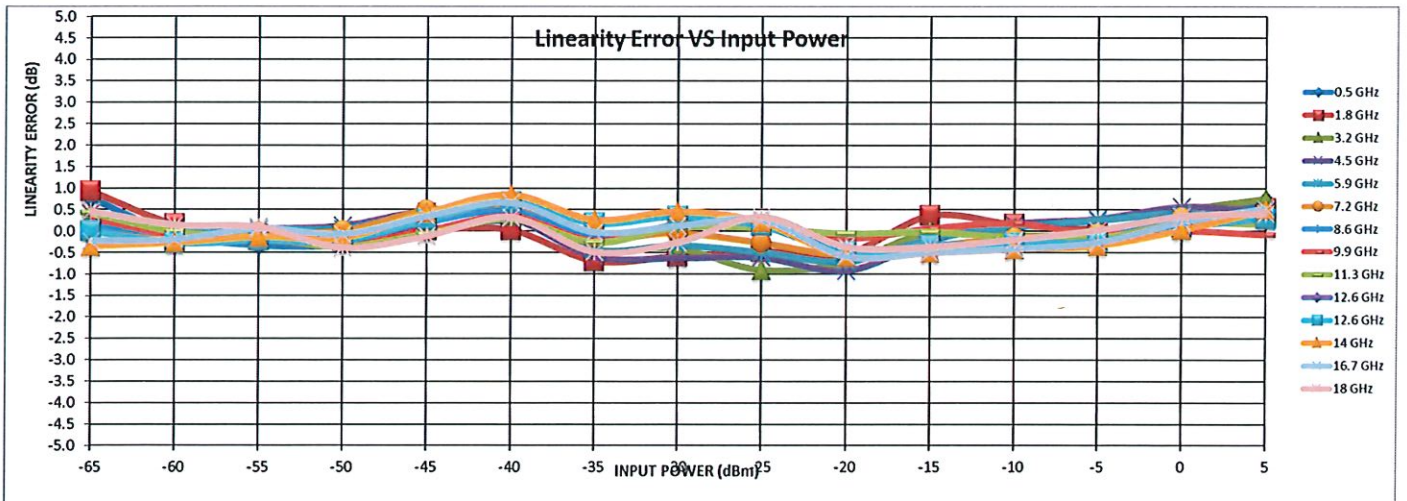
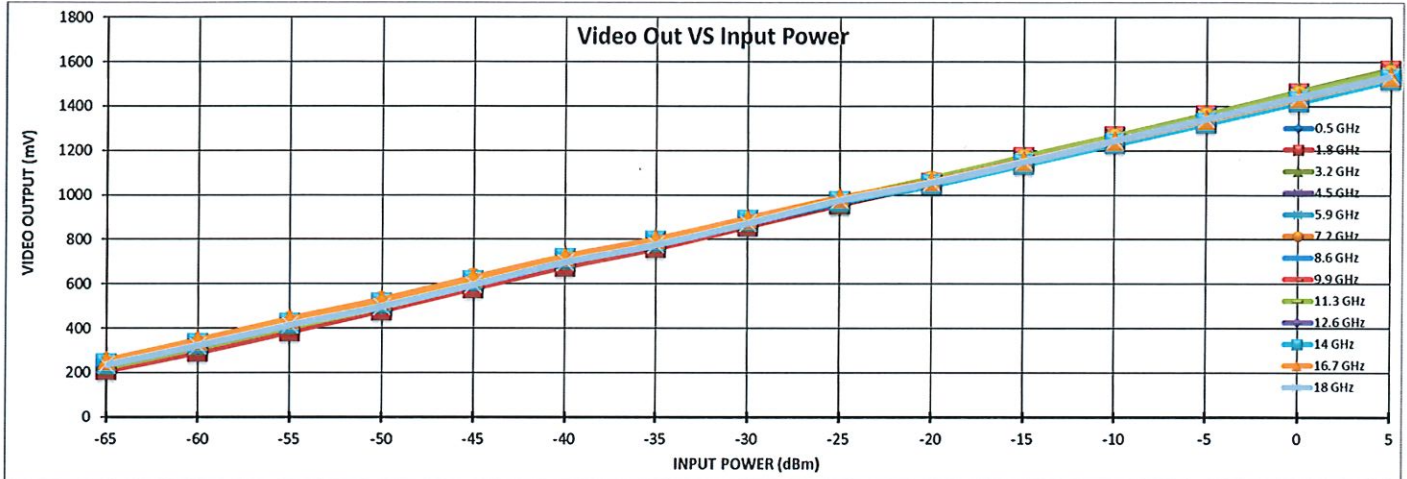
| LOG TRANSFER VS FREQUENCY | | Tuesday, October 22, 2019 | | | | | | | | | | | | | | PLANAR MONOLITHICS INDUSTRIES 7311-F GROVE ROAD, FREDERICK, MD 21704 USA TEL: 301-662-5019 FAX: 301-662-1731 URL: WWW.PMI-RF.COM EMAIL: SALES@PMI-RF.COM | | |
|--|----------------|---------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|------|--|----------------------|--|
| MODEL: SDLVA-2020-70 OPT. 0518, A03, A07-500HM TESTED BY: J.Emperador DATE: 10/21/19 SERIAL NO: PL26826 | | Test Temp: +60C | | | | | | | | | | | | | | | | |
| Frequency | | -65 | -60 | -55 | -50 | -45 | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 5 | RF Input Power (dBm) | |
| 0.5 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1431 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.8 | Error (mV) | |
| | | 226 | 304 | 393 | 487 | 587 | 685 | 770 | 871 | 965 | 1047 | 1142 | 1237 | 1333 | 1436 | 1538 | LINEARITY ERROR (dB) | |
| | | 14 | -1 | -6 | -6 | 0 | 5 | -4 | 3 | 3 | -9 | -7 | -6 | -4 | 5 | 13 | | |
| | | 0.77 | -0.07 | -0.33 | -0.32 | 0.02 | 0.24 | -0.23 | 0.16 | 0.17 | -0.46 | -0.40 | -0.33 | -0.21 | 0.28 | 0.72 | | |
| 1.8 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1453 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 19.4 | Error (mV) | |
| | | 211 | 293 | 385 | 481 | 581 | 678 | 761 | 860 | 959 | 1055 | 1169 | 1262 | 1357 | 1458 | 1560 | LINEARITY ERROR (dB) | |
| | | 18 | 3 | -2 | -3 | 0 | 0 | -13 | -11 | -9 | -10 | 7 | 3 | 1 | 5 | 10 | | |
| | | 0.93 | 0.16 | -0.09 | -0.14 | 0.02 | 0.02 | -0.69 | -0.58 | -0.48 | -0.52 | 0.36 | 0.16 | 0.06 | 0.27 | 0.53 | | |
| 3.2 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1456 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.9 | Error (mV) | |
| | | 234 | 323 | 416 | 511 | 613 | 706 | 786 | 881 | 966 | 1064 | 1172 | 1265 | 1361 | 1465 | 1565 | LINEARITY ERROR (dB) | |
| | | 8 | 2 | 0 | 1 | 8 | 7 | -8 | -8 | -17 | -14 | 0 | -2 | 0 | 9 | 14 | | |
| | | 0.40 | 0.10 | 0.02 | 0.04 | 0.43 | 0.35 | -0.42 | -0.40 | -0.90 | -0.72 | -0.01 | -0.10 | -0.02 | 0.47 | 0.76 | | |
| 4.6 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1447 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.8 | Error (mV) | |
| | | 238 | 324 | 417 | 512 | 612 | 703 | 780 | 873 | 967 | 1055 | 1162 | 1263 | 1359 | 1458 | 1550 | LINEARITY ERROR (dB) | |
| | | 8 | 2 | 1 | 2 | 9 | 6 | -11 | -12 | -12 | -17 | -4 | 3 | 5 | 11 | 9 | | |
| | | 0.41 | 0.10 | 0.06 | 0.13 | 0.46 | 0.31 | -0.58 | -0.63 | -0.61 | -0.92 | -0.22 | 0.17 | 0.29 | 0.57 | 0.47 | | |
| 5.9 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1444 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.6 | Error (mV) | |
| | | 239 | 328 | 422 | 515 | 615 | 707 | 785 | 880 | 970 | 1059 | 1162 | 1260 | 1366 | 1452 | 1542 | LINEARITY ERROR (dB) | |
| | | 4 | 0 | 1 | 1 | 8 | 7 | -8 | -6 | -9 | -13 | -3 | 2 | 5 | 8 | 5 | | |
| | | 0.21 | 0.00 | 0.05 | 0.05 | 0.43 | 0.37 | -0.44 | -0.33 | -0.49 | -0.71 | -0.17 | 0.10 | 0.26 | 0.42 | 0.25 | | |
| 7.2 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1442 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.4 | Error (mV) | |
| | | 243 | 333 | 427 | 520 | 621 | 714 | 794 | 888 | 976 | 1063 | 1159 | 1255 | 1349 | 1448 | 1542 | LINEARITY ERROR (dB) | |
| | | 0 | -2 | -1 | 0 | 9 | 10 | -3 | -1 | -5 | -10 | -7 | -3 | -1 | 6 | 8 | | |
| | | -0.01 | -0.13 | -0.03 | 0.01 | 0.48 | 0.52 | -0.14 | -0.04 | -0.27 | -0.56 | -0.35 | -0.15 | -0.05 | 0.31 | 0.41 | | |
| 8.6 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1438 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.6 | Error (mV) | |
| | | 229 | 318 | 410 | 502 | 603 | 701 | 783 | 881 | 974 | 1058 | 1151 | 1246 | 1342 | 1443 | 1538 | LINEARITY ERROR (dB) | |
| | | 3 | -1 | -3 | -4 | 4 | 9 | -2 | 2 | 2 | -7 | -7 | -5 | -3 | 5 | 7 | | |
| | | 0.15 | -0.07 | -0.14 | -0.20 | 0.22 | 0.47 | -0.13 | 0.13 | 0.12 | -0.38 | -0.39 | -0.29 | -0.14 | 0.28 | 0.37 | | |
| 9.9 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1448 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.9 | Error (mV) | |
| | | 223 | 310 | 403 | 495 | 596 | 697 | 781 | 882 | 977 | 1066 | 1165 | 1262 | 1352 | 1448 | 1541 | LINEARITY ERROR (dB) | |
| | | 6 | -2 | -4 | -6 | 0 | 6 | -4 | 2 | 2 | -3 | 1 | 3 | -1 | 0 | -2 | | |
| | | 0.31 | -0.10 | -0.19 | -0.33 | 0.01 | 0.34 | -0.22 | 0.11 | 0.13 | -0.17 | 0.06 | 0.18 | -0.06 | 0.01 | -0.08 | | |
| 11.3 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1457 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 19.1 | Error (mV) | |
| | | 226 | 313 | 406 | 497 | 598 | 700 | 785 | 887 | 982 | 1075 | 1171 | 1264 | 1359 | 1461 | 1556 | LINEARITY ERROR (dB) | |
| | | 8 | 0 | -3 | -7 | -1 | 5 | -5 | 2 | 1 | -1 | 0 | -3 | -3 | 4 | 3 | | |
| | | 0.42 | -0.01 | -0.14 | -0.36 | -0.07 | 0.28 | -0.26 | 0.09 | 0.07 | -0.05 | -0.02 | -0.14 | -0.16 | 0.19 | 0.17 | | |
| 12.6 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1432 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.4 | Error (mV) | |
| | | 235 | 322 | 415 | 507 | 608 | 708 | 791 | 886 | 974 | 1055 | 1150 | 1243 | 1336 | 1434 | 1530 | LINEARITY ERROR (dB) | |
| | | 0 | -5 | -4 | -4 | 5 | 13 | 4 | 6 | 2 | -9 | -6 | -5 | -4 | 2 | 6 | | |
| | | 0.01 | -0.27 | -0.22 | -0.23 | 0.26 | 0.68 | 0.19 | 0.35 | 0.12 | -0.48 | -0.32 | -0.27 | -0.22 | 0.10 | 0.31 | | |
| 14 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1420 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.1 | Error (mV) | |
| | | 238 | 330 | 423 | 513 | 614 | 712 | 792 | 886 | 972 | 1048 | 1140 | 1232 | 1324 | 1421 | 1520 | LINEARITY ERROR (dB) | |
| | | -6 | -5 | -2 | -3 | 8 | 15 | 5 | 8 | 4 | -11 | -9 | -8 | -6 | 1 | 9 | | |
| | | -0.35 | -0.27 | -0.13 | -0.15 | 0.43 | 0.84 | 0.27 | 0.46 | 0.21 | -0.59 | -0.50 | -0.42 | -0.33 | 0.03 | 0.50 | | |
| 16.7 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1434 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.1 | Error (mV) | |
| | | 255 | 346 | 441 | 529 | 627 | 723 | 801 | 894 | 987 | 1062 | 1154 | 1246 | 1339 | 1438 | 1534 | LINEARITY ERROR (dB) | |
| | | -4 | -3 | 1 | -1 | 6 | 12 | 0 | 2 | 5 | -11 | -9 | -7 | -5 | 4 | 10 | | |
| | | -0.22 | -0.19 | 0.07 | -0.07 | 0.36 | 0.67 | -0.02 | 0.13 | 0.27 | -0.58 | -0.49 | -0.40 | -0.26 | 0.22 | 0.53 | | |
| 18 GHz | INTERCEPT (mV) | | | | | | | | | | | | | | | 1435 | Measured Value (mV) | |
| | SLOPE (mV/dB) | | | | | | | | | | | | | | | 18.6 | Error (mV) | |
| | | 236 | 323 | 415 | 499 | 597 | 698 | 776 | 873 | 977 | 1057 | 1150 | 1246 | 1343 | 1442 | 1536 | LINEARITY ERROR (dB) | |
| | | 9 | 3 | 2 | -7 | -2 | 6 | -9 | 5 | 6 | -7 | -7 | -4 | 0 | 7 | 8 | | |
| | | 0.46 | 0.15 | 0.10 | -0.38 | -0.11 | 0.32 | -0.48 | -0.26 | 0.33 | -0.36 | -0.36 | -0.19 | 0.03 | 0.35 | 0.41 | | |
| Flatness | | 1.2 | 1.4 | 1.5 | 1.3 | 1.2 | 1.2 | 1.1 | 0.9 | 0.8 | 0.8 | 0.9 | 0.9 | 1 | 1.2 | 1.2 | | |
| Linearity Max (dB) | | | | | | | | | | | | | | | | 0.93 | | |
| Linearity Min (dB) | | | | | | | | | | | | | | | | -0.92 | | |
| Average Slope (mV/dB) | | | | | | | | | | | | | | | | 18.7 | | |



**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-50OHM**

PL26826/1943

LOGGING CHARACTERISTICS @ +60C





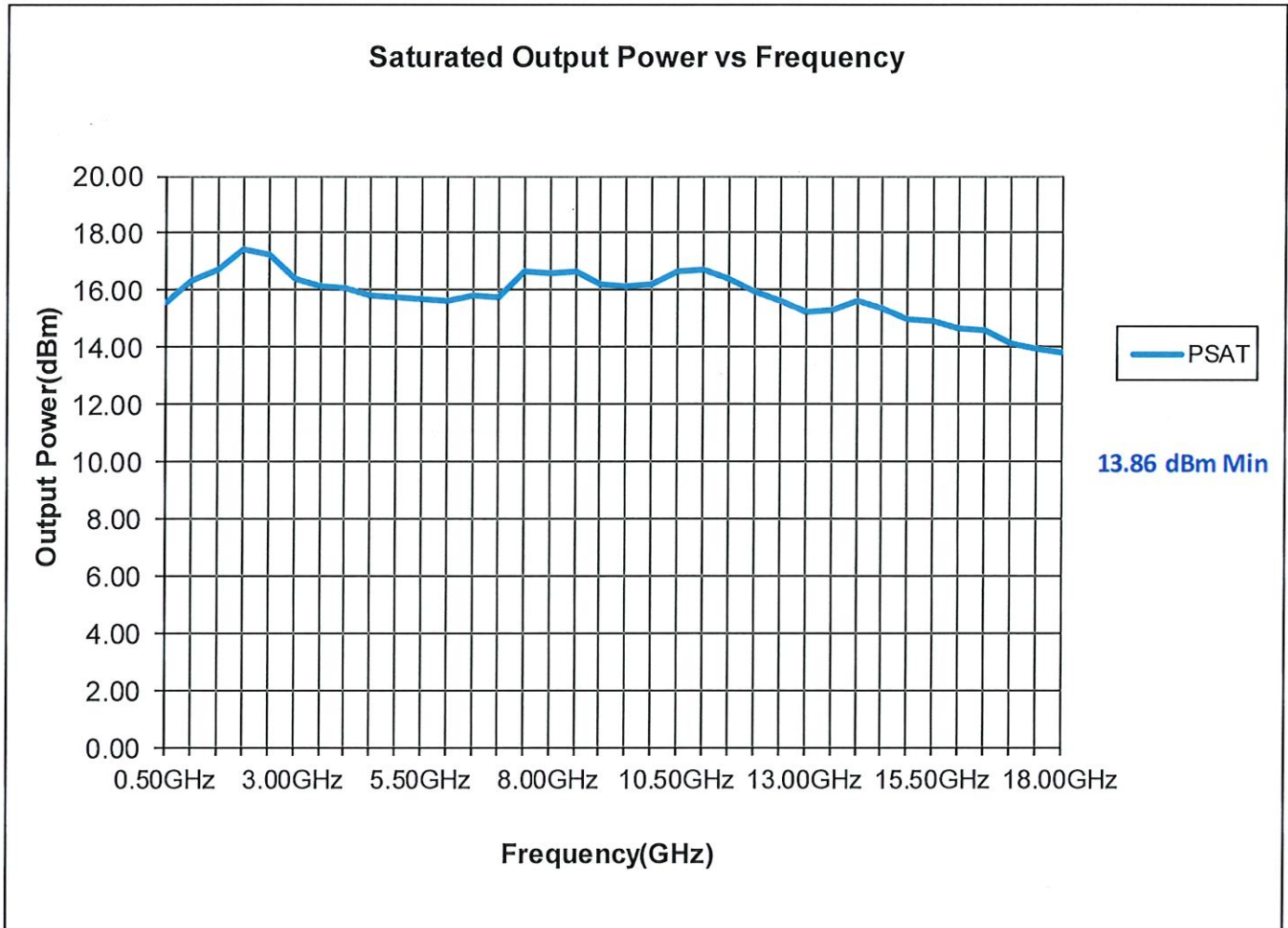
**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-50OHM**

PL26826/1943

P-Sat

**MODEL: SDLVA-2020-70 OPT. 0518, A03, A07-50OHM
TESTED BY: J.Emperador
DATE: 10/21/19
SERIAL NO: PL26826**

Test Temp: 25C





**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-50OHM**

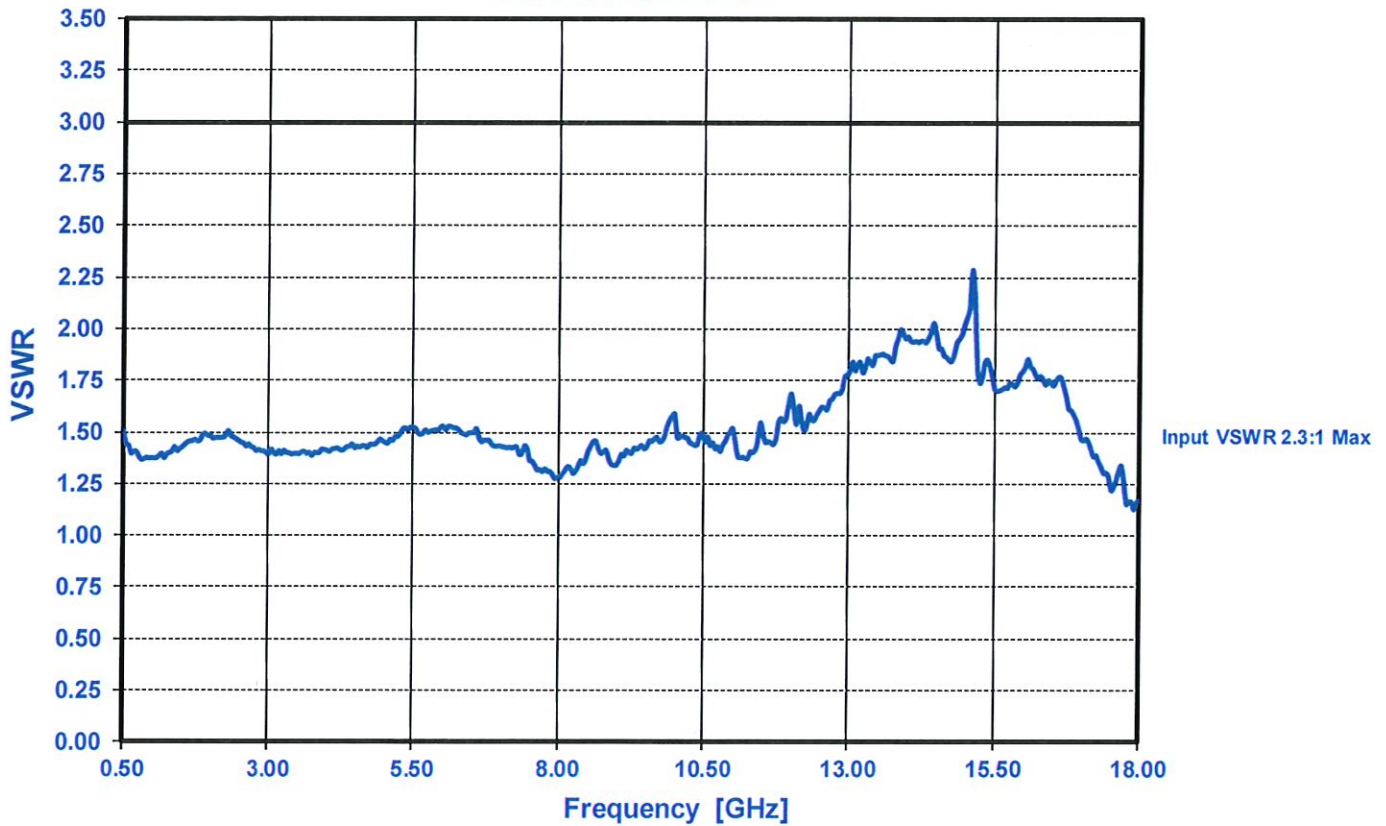
PL26826/1943

INPUT VSWR

Model Number: SDLVA-2020-70 OPT. 0518
Serial Number: PL26826

Temperature: +25C

VSWR GRAPH

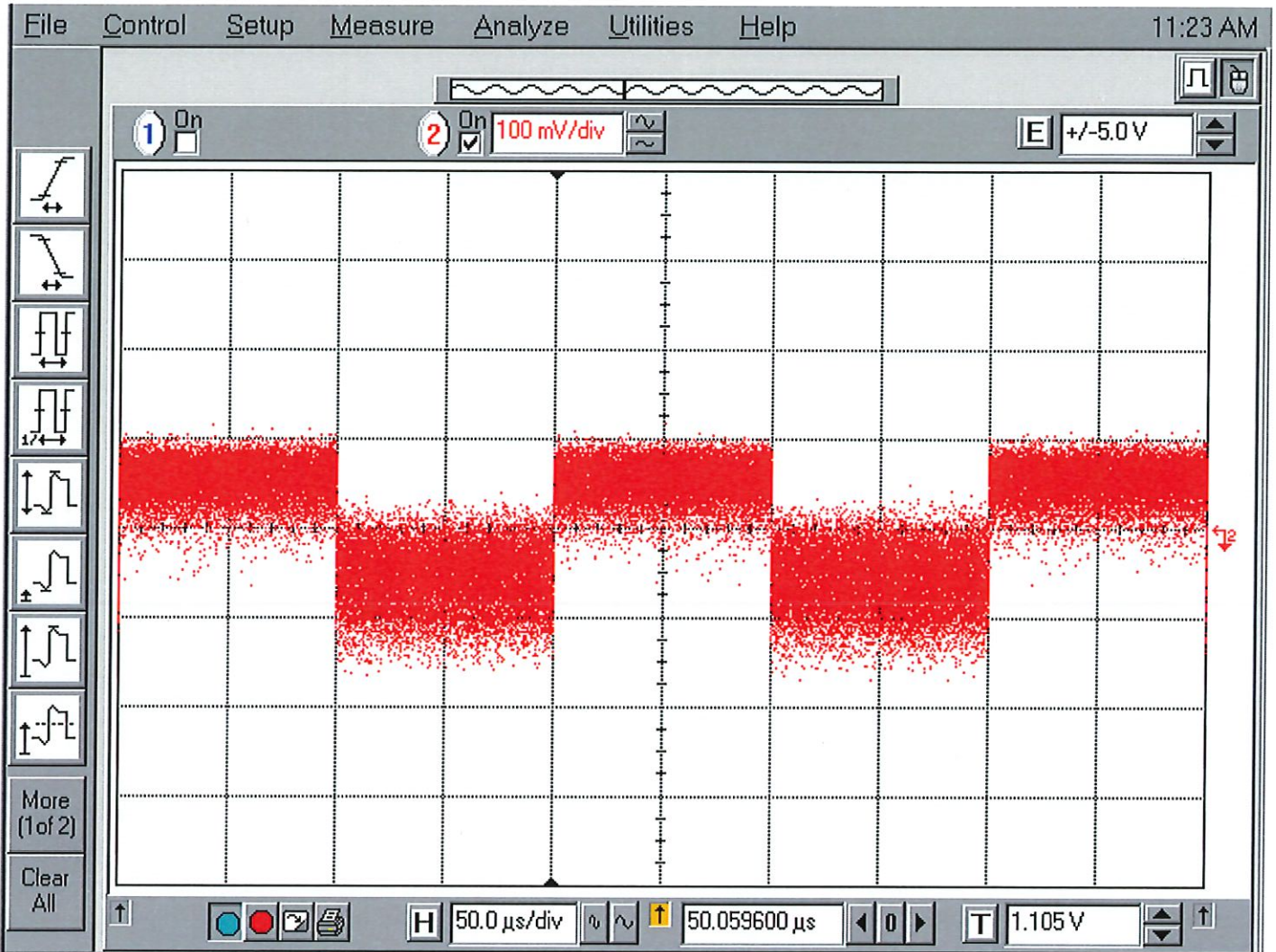




**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-50OHM**

PL26826/1943

TSS @ -67.0 dBm

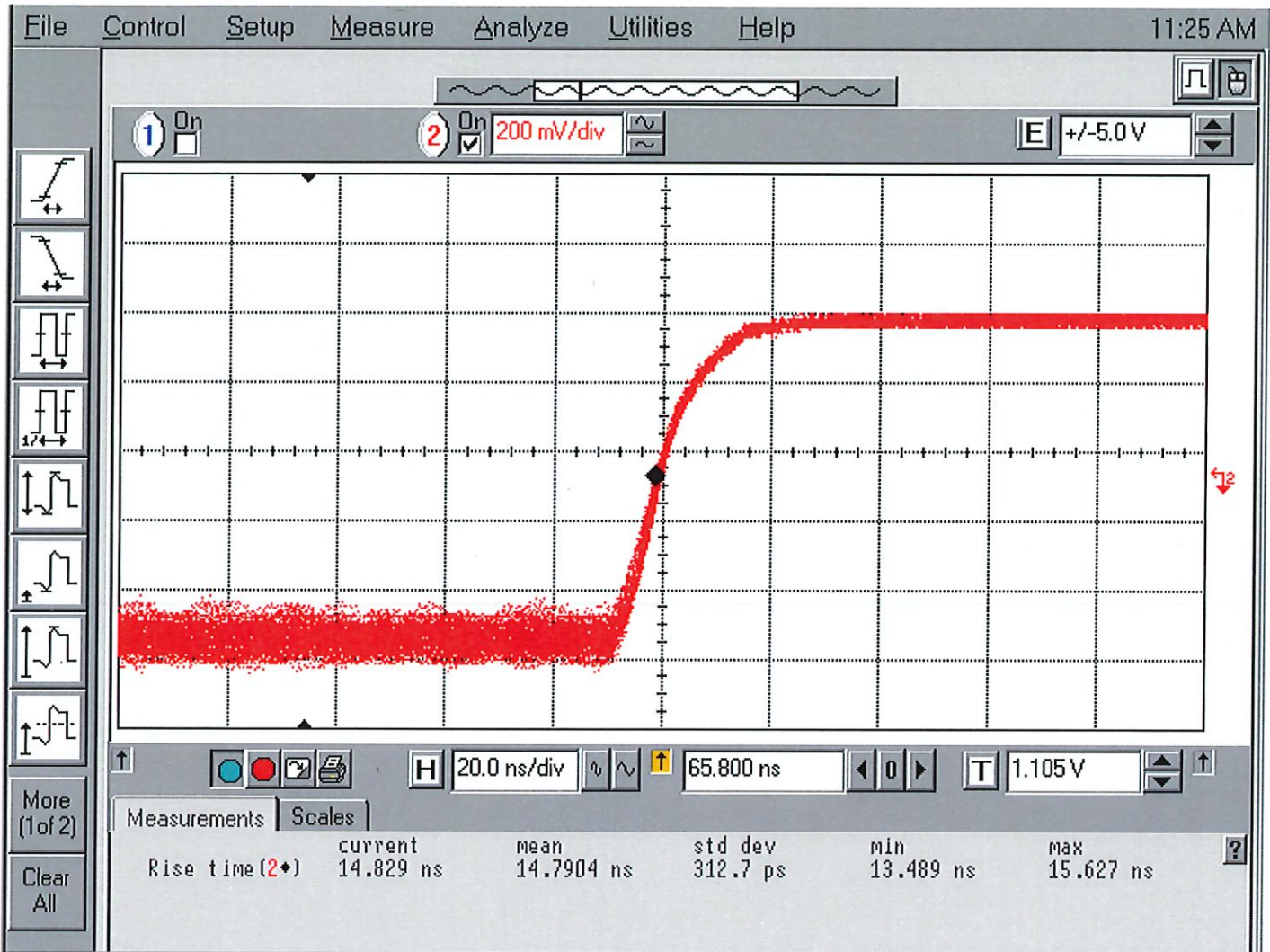




**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-500HM**

PL26826/1943

Rise Time @ 14.8 ns





**SUMMARY TEST DATA
ON
SDLVA-2020-70 Opt 0518 A03
A07-50OHM**

PL26826/1943

Recovery Time @ 165 ns

