



**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF**

PL52147/2517

| | |
|--|---|
| Customer: _____ | Tested By: <u>DA</u> |
| SO No: _____ | Temperature: <u>+25°C</u> |
| Model No: <u>SDLVA-18G40G-65-CD-292FF</u> | Date: <u>04/23/25</u> |
| Serial No: <u>PL52147/2517</u> | Drawing No: <u>ETD000046</u> REV: A2 |

| TEST. ITEM NO | PARAMETERS | SPECIFIED VALUE | TEST RESULTS | QA QC DA3 |
|---------------|---|--|------------------------------|--|
| 1 | Frequency Range: | 18.0 to 40.0GHz | Pass | <div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%;"></div> |
| 2 | TSS (See Graph #2) | -65 dBm Max. | -71dBm | |
| 3 | Power Handling | +10dBm Max. | Pass | |
| 4 | Dynamic Range: | -63dBm to +2dBm | Pass | |
| 5 | Log Linearity: @+25C (See Graph #1) | ± 2.0 dB Max. | +1.0dB -1.51dB | |
| 6 | Log Slope: (See Graph #1) | 25 mV/dB Nom. | 26.02mV/dB | |
| 7 | Log Slope Variation: (See Graph #1) | ±2.0 mV/dB Max. | 0.95mV/dB | |
| 8 | Frequency Flatness: @+25C (See Graph #1) | ±2.5dB Max. | ±2.10dB | |
| 9 | Pulse Width Range: | 30ns to CW | Pass | |
| 10 | Rise Time: (See Graph #3) | 11ns Max. (8 ns Typ.) | 6.8ns | |
| 11 | Recovery Time: (See Graph #4) | 60ns Max. (40 ns Typ.) | 25.3ns | |
| 12 | Delay Time: | 60ns Max. | <60ns by design | |
| 13 | Input VSWR: (See Graph #5) | 2.5:1 Max. | 1.88:1 | |
| 14 | Power Supply | +12V @ 500mA Max. -12V @ 200mA Max. | +12V @ 418mA -12V @ 161mA | |

QA/QC Approval: K. Klamm Date: 4-28-25



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ON
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Graph #1

Log Transfer vs Frequency @+25C

| <p>MODEL: SDLVA-18G40G-65-CD-292FF SERIAL NO: PL52147 DATE: 04-23-25 TESTED BY: DA Test Temp: +25°C</p> | | <p>PLANAR MONOLITHICS INDUSTRIES 4921 Robert J. Mathews Parkway Suit 1 El Dorado Hills, CA 95762 TEL: 916-542-1401 FAX: 916-265-2597 EMAIL: SALES@PMI-RF.COM</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|---|-----------------------|---------------|---------------|---|---|----------------|----------------|-------|-------|-------|-------|------|------|-----------------------|---|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|---|-------|-------------------------|-------|--|---------------------|------------|------------|---------|----------------------|------------|
| Frequency | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">-63</th><th style="width: 10%;">-58</th><th style="width: 10%;">-53</th><th style="width: 10%;">-48</th><th style="width: 10%;">-43</th><th style="width: 10%;">-38</th><th style="width: 10%;">-33</th><th style="width: 10%;">-28</th><th style="width: 10%;">-23</th><th style="width: 10%;">-18</th><th style="width: 10%;">-13</th><th style="width: 10%;">-8</th><th style="width: 10%;">-3</th><th style="width: 10%;">2</th> </tr> </table> | -63 | -58 | -53 | -48 | -43 | -38 | -33 | -28 | -23 | -18 | -13 | -8 | -3 | 2 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 100%;">RF Input Power (dBm)</th> </tr> </table> | RF Input Power (dBm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -63 | -58 | -53 | -48 | -43 | -38 | -33 | -28 | -23 | -18 | -13 | -8 | -3 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Input Power (dBm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">18 GHz</td> <td style="width: 15%;">INTERCEPT (mV)</td> <td style="width: 15%;">1832</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>26</td> </tr> </table> | 18 GHz | INTERCEPT (mV) | 1832 | | SLOPE (mV/dB) | 26 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">181</td><td style="width: 10%;">321</td><td style="width: 10%;">450</td><td style="width: 10%;">581</td><td style="width: 10%;">715</td><td style="width: 10%;">846</td><td style="width: 10%;">976</td><td style="width: 10%;">1107</td><td style="width: 10%;">1237</td><td style="width: 10%;">1375</td><td style="width: 10%;">1493</td><td style="width: 10%;">1620</td><td style="width: 10%;">1752</td><td style="width: 10%;">1879</td> </tr> <tr> <td style="width: 10%;">-2</td><td style="width: 10%;">-2</td><td style="width: 10%;">-3</td><td style="width: 10%;">-2</td><td style="width: 10%;">2</td><td style="width: 10%;">2</td><td style="width: 10%;">2</td><td style="width: 10%;">3</td><td style="width: 10%;">3</td><td style="width: 10%;">11</td><td style="width: 10%;">-1</td><td style="width: 10%;">-4</td><td style="width: 10%;">-2</td><td style="width: 10%;">-6</td> </tr> <tr> <td style="width: 10%;">-0.08</td><td style="width: 10%;">-0.08</td><td style="width: 10%;">-0.13</td><td style="width: 10%;">-0.09</td><td style="width: 10%;">0.06</td><td style="width: 10%;">0.09</td><td style="width: 10%;">0.09</td><td style="width: 10%;">0.12</td><td style="width: 10%;">0.12</td><td style="width: 10%;">0.42</td><td style="width: 10%;">-0.05</td><td style="width: 10%;">-0.17</td><td style="width: 10%;">-0.09</td><td style="width: 10%;">-0.21</td> </tr> </table> | 181 | 321 | 450 | 581 | 715 | 846 | 976 | 1107 | 1237 | 1375 | 1493 | 1620 | 1752 | 1879 | -2 | -2 | -3 | -2 | 2 | 2 | 2 | 3 | 3 | 11 | -1 | -4 | -2 | -6 | -0.08 | -0.08 | -0.13 | -0.09 | 0.06 | 0.09 | 0.09 | 0.12 | 0.12 | 0.42 | -0.05 | -0.17 | -0.09 | -0.21 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Measured Value (mV)</th> <th style="width: 50%;">Error (dB)</th> </tr> <tr> <td style="width: 50%;">Error (mV)</td> <td style="width: 50%;">MAX MIN</td> </tr> <tr> <td style="width: 50%;">LINEARITY ERROR (dB)</td> <td style="width: 50%;">0.42 -0.21</td> </tr> </table> | Measured Value (mV) | Error (dB) | Error (mV) | MAX MIN | LINEARITY ERROR (dB) | 0.42 -0.21 |
| 18 GHz | INTERCEPT (mV) | 1832 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 181 | 321 | 450 | 581 | 715 | 846 | 976 | 1107 | 1237 | 1375 | 1493 | 1620 | 1752 | 1879 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -2 | -2 | -3 | -2 | 2 | 2 | 2 | 3 | 3 | 11 | -1 | -4 | -2 | -6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.08 | -0.08 | -0.13 | -0.09 | 0.06 | 0.09 | 0.09 | 0.12 | 0.12 | 0.42 | -0.05 | -0.17 | -0.09 | -0.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.42 -0.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">23.5 GHz</td> <td style="width: 15%;">INTERCEPT (mV)</td> <td style="width: 15%;">1829</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>27.4</td> </tr> </table> | 23.5 GHz | INTERCEPT (mV) | 1829 | | SLOPE (mV/dB) | 27.4 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">112</td><td style="width: 10%;">239</td><td style="width: 10%;">372</td><td style="width: 10%;">511</td><td style="width: 10%;">663</td><td style="width: 10%;">788</td><td style="width: 10%;">920</td><td style="width: 10%;">1052</td><td style="width: 10%;">1184</td><td style="width: 10%;">1343</td><td style="width: 10%;">1482</td><td style="width: 10%;">1614</td><td style="width: 10%;">1748</td><td style="width: 10%;">1883</td> </tr> <tr> <td style="width: 10%;">9</td><td style="width: 10%;">-1</td><td style="width: 10%;">-5</td><td style="width: 10%;">-3</td><td style="width: 10%;">12</td><td style="width: 10%;">0</td><td style="width: 10%;">-5</td><td style="width: 10%;">-10</td><td style="width: 10%;">-15</td><td style="width: 10%;">7</td><td style="width: 10%;">9</td><td style="width: 10%;">4</td><td style="width: 10%;">2</td><td style="width: 10%;">-1</td> </tr> <tr> <td style="width: 10%;">0.32</td><td style="width: 10%;">-0.05</td><td style="width: 10%;">-0.19</td><td style="width: 10%;">-0.12</td><td style="width: 10%;">0.43</td><td style="width: 10%;">-0.01</td><td style="width: 10%;">-0.19</td><td style="width: 10%;">-0.37</td><td style="width: 10%;">-0.55</td><td style="width: 10%;">0.25</td><td style="width: 10%;">0.32</td><td style="width: 10%;">0.14</td><td style="width: 10%;">0.07</td><td style="width: 10%;">-0.04</td> </tr> </table> | 112 | 239 | 372 | 511 | 663 | 788 | 920 | 1052 | 1184 | 1343 | 1482 | 1614 | 1748 | 1883 | 9 | -1 | -5 | -3 | 12 | 0 | -5 | -10 | -15 | 7 | 9 | 4 | 2 | -1 | 0.32 | -0.05 | -0.19 | -0.12 | 0.43 | -0.01 | -0.19 | -0.37 | -0.55 | 0.25 | 0.32 | 0.14 | 0.07 | -0.04 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Measured Value (mV)</th> <th style="width: 50%;">Error (dB)</th> </tr> <tr> <td style="width: 50%;">Error (mV)</td> <td style="width: 50%;">MAX MIN</td> </tr> <tr> <td style="width: 50%;">LINEARITY ERROR (dB)</td> <td style="width: 50%;">0.43 -0.55</td> </tr> </table> | Measured Value (mV) | Error (dB) | Error (mV) | MAX MIN | LINEARITY ERROR (dB) | 0.43 -0.55 |
| 23.5 GHz | INTERCEPT (mV) | 1829 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 27.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 112 | 239 | 372 | 511 | 663 | 788 | 920 | 1052 | 1184 | 1343 | 1482 | 1614 | 1748 | 1883 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | -1 | -5 | -3 | 12 | 0 | -5 | -10 | -15 | 7 | 9 | 4 | 2 | -1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.32 | -0.05 | -0.19 | -0.12 | 0.43 | -0.01 | -0.19 | -0.37 | -0.55 | 0.25 | 0.32 | 0.14 | 0.07 | -0.04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.43 -0.55 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">29 GHz</td> <td style="width: 15%;">INTERCEPT (mV)</td> <td style="width: 15%;">1810</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>25.6</td> </tr> </table> | 29 GHz | INTERCEPT (mV) | 1810 | | SLOPE (mV/dB) | 25.6 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">211</td><td style="width: 10%;">346</td><td style="width: 10%;">477</td><td style="width: 10%;">605</td><td style="width: 10%;">675</td><td style="width: 10%;">797</td><td style="width: 10%;">928</td><td style="width: 10%;">1063</td><td style="width: 10%;">1199</td><td style="width: 10%;">1361</td><td style="width: 10%;">1498</td><td style="width: 10%;">1615</td><td style="width: 10%;">1748</td><td style="width: 10%;">1879</td> </tr> <tr> <td style="width: 10%;">18</td><td style="width: 10%;">21</td><td style="width: 10%;">28</td><td style="width: 10%;">25</td><td style="width: 10%;">-32</td><td style="width: 10%;">-39</td><td style="width: 10%;">-36</td><td style="width: 10%;">-29</td><td style="width: 10%;">-21</td><td style="width: 10%;">13</td><td style="width: 10%;">12</td><td style="width: 10%;">18</td><td style="width: 10%;">15</td><td style="width: 10%;">-15</td> </tr> <tr> <td style="width: 10%;">0.62</td><td style="width: 10%;">0.89</td><td style="width: 10%;">1.00</td><td style="width: 10%;">0.99</td><td style="width: 10%;">-1.27</td><td style="width: 10%;">-1.51</td><td style="width: 10%;">-1.40</td><td style="width: 10%;">-1.13</td><td style="width: 10%;">-0.83</td><td style="width: 10%;">0.49</td><td style="width: 10%;">0.45</td><td style="width: 10%;">0.41</td><td style="width: 10%;">0.80</td><td style="width: 10%;">0.71</td> </tr> </table> | 211 | 346 | 477 | 605 | 675 | 797 | 928 | 1063 | 1199 | 1361 | 1498 | 1615 | 1748 | 1879 | 18 | 21 | 28 | 25 | -32 | -39 | -36 | -29 | -21 | 13 | 12 | 18 | 15 | -15 | 0.62 | 0.89 | 1.00 | 0.99 | -1.27 | -1.51 | -1.40 | -1.13 | -0.83 | 0.49 | 0.45 | 0.41 | 0.80 | 0.71 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Measured Value (mV)</th> <th style="width: 50%;">Error (dB)</th> </tr> <tr> <td style="width: 50%;">Error (mV)</td> <td style="width: 50%;">MAX MIN</td> </tr> <tr> <td style="width: 50%;">LINEARITY ERROR (dB)</td> <td style="width: 50%;">1.00 -1.51</td> </tr> </table> | Measured Value (mV) | Error (dB) | Error (mV) | MAX MIN | LINEARITY ERROR (dB) | 1.00 -1.51 |
| 29 GHz | INTERCEPT (mV) | 1810 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 25.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 211 | 346 | 477 | 605 | 675 | 797 | 928 | 1063 | 1199 | 1361 | 1498 | 1615 | 1748 | 1879 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 21 | 28 | 25 | -32 | -39 | -36 | -29 | -21 | 13 | 12 | 18 | 15 | -15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.62 | 0.89 | 1.00 | 0.99 | -1.27 | -1.51 | -1.40 | -1.13 | -0.83 | 0.49 | 0.45 | 0.41 | 0.80 | 0.71 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 1.00 -1.51 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">34.5 GHz</td> <td style="width: 15%;">INTERCEPT (mV)</td> <td style="width: 15%;">1792</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>25.6</td> </tr> </table> | 34.5 GHz | INTERCEPT (mV) | 1792 | | SLOPE (mV/dB) | 25.6 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">175</td><td style="width: 10%;">308</td><td style="width: 10%;">441</td><td style="width: 10%;">575</td><td style="width: 10%;">684</td><td style="width: 10%;">810</td><td style="width: 10%;">944</td><td style="width: 10%;">1081</td><td style="width: 10%;">1218</td><td style="width: 10%;">1342</td><td style="width: 10%;">1449</td><td style="width: 10%;">1578</td><td style="width: 10%;">1712</td><td style="width: 10%;">1847</td> </tr> <tr> <td style="width: 10%;">-6</td><td style="width: 10%;">0</td><td style="width: 10%;">5</td><td style="width: 10%;">11</td><td style="width: 10%;">-8</td><td style="width: 10%;">-10</td><td style="width: 10%;">-4</td><td style="width: 10%;">5</td><td style="width: 10%;">14</td><td style="width: 10%;">11</td><td style="width: 10%;">-10</td><td style="width: 10%;">-9</td><td style="width: 10%;">-3</td><td style="width: 10%;">4</td> </tr> <tr> <td style="width: 10%;">-0.22</td><td style="width: 10%;">-0.02</td><td style="width: 10%;">0.18</td><td style="width: 10%;">0.42</td><td style="width: 10%;">-0.31</td><td style="width: 10%;">-0.39</td><td style="width: 10%;">-0.15</td><td style="width: 10%;">0.21</td><td style="width: 10%;">0.57</td><td style="width: 10%;">0.41</td><td style="width: 10%;">-0.40</td><td style="width: 10%;">-0.36</td><td style="width: 10%;">-0.12</td><td style="width: 10%;">0.16</td> </tr> </table> | 175 | 308 | 441 | 575 | 684 | 810 | 944 | 1081 | 1218 | 1342 | 1449 | 1578 | 1712 | 1847 | -6 | 0 | 5 | 11 | -8 | -10 | -4 | 5 | 14 | 11 | -10 | -9 | -3 | 4 | -0.22 | -0.02 | 0.18 | 0.42 | -0.31 | -0.39 | -0.15 | 0.21 | 0.57 | 0.41 | -0.40 | -0.36 | -0.12 | 0.16 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Measured Value (mV)</th> <th style="width: 50%;">Error (dB)</th> </tr> <tr> <td style="width: 50%;">Error (mV)</td> <td style="width: 50%;">MAX MIN</td> </tr> <tr> <td style="width: 50%;">LINEARITY ERROR (dB)</td> <td style="width: 50%;">0.57 -0.40</td> </tr> </table> | Measured Value (mV) | Error (dB) | Error (mV) | MAX MIN | LINEARITY ERROR (dB) | 0.57 -0.40 |
| 34.5 GHz | INTERCEPT (mV) | 1792 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 25.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 175 | 308 | 441 | 575 | 684 | 810 | 944 | 1081 | 1218 | 1342 | 1449 | 1578 | 1712 | 1847 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -6 | 0 | 5 | 11 | -8 | -10 | -4 | 5 | 14 | 11 | -10 | -9 | -3 | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.22 | -0.02 | 0.18 | 0.42 | -0.31 | -0.39 | -0.15 | 0.21 | 0.57 | 0.41 | -0.40 | -0.36 | -0.12 | 0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.57 -0.40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">40 GHz</td> <td style="width: 15%;">INTERCEPT (mV)</td> <td style="width: 15%;">1783</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>25.5</td> </tr> </table> | 40 GHz | INTERCEPT (mV) | 1783 | | SLOPE (mV/dB) | 25.5 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">157</td><td style="width: 10%;">289</td><td style="width: 10%;">424</td><td style="width: 10%;">577</td><td style="width: 10%;">698</td><td style="width: 10%;">816</td><td style="width: 10%;">952</td><td style="width: 10%;">1087</td><td style="width: 10%;">1215</td><td style="width: 10%;">1336</td><td style="width: 10%;">1433</td><td style="width: 10%;">1561</td><td style="width: 10%;">1697</td><td style="width: 10%;">1831</td> </tr> <tr> <td style="width: 10%;">-20</td><td style="width: 10%;">-15</td><td style="width: 10%;">-8</td><td style="width: 10%;">18</td><td style="width: 10%;">11</td><td style="width: 10%;">2</td><td style="width: 10%;">11</td><td style="width: 10%;">18</td><td style="width: 10%;">19</td><td style="width: 10%;">12</td><td style="width: 10%;">-18</td><td style="width: 10%;">-18</td><td style="width: 10%;">-9</td><td style="width: 10%;">-3</td> </tr> <tr> <td style="width: 10%;">-0.77</td><td style="width: 10%;">-0.59</td><td style="width: 10%;">-0.30</td><td style="width: 10%;">0.70</td><td style="width: 10%;">0.45</td><td style="width: 10%;">0.08</td><td style="width: 10%;">0.41</td><td style="width: 10%;">0.71</td><td style="width: 10%;">0.73</td><td style="width: 10%;">0.48</td><td style="width: 10%;">-0.72</td><td style="width: 10%;">-0.70</td><td style="width: 10%;">-0.36</td><td style="width: 10%;">-0.11</td> </tr> </table> | 157 | 289 | 424 | 577 | 698 | 816 | 952 | 1087 | 1215 | 1336 | 1433 | 1561 | 1697 | 1831 | -20 | -15 | -8 | 18 | 11 | 2 | 11 | 18 | 19 | 12 | -18 | -18 | -9 | -3 | -0.77 | -0.59 | -0.30 | 0.70 | 0.45 | 0.08 | 0.41 | 0.71 | 0.73 | 0.48 | -0.72 | -0.70 | -0.36 | -0.11 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Measured Value (mV)</th> <th style="width: 50%;">Error (dB)</th> </tr> <tr> <td style="width: 50%;">Error (mV)</td> <td style="width: 50%;">MAX MIN</td> </tr> <tr> <td style="width: 50%;">LINEARITY ERROR (dB)</td> <td style="width: 50%;">0.73 -0.77</td> </tr> </table> | Measured Value (mV) | Error (dB) | Error (mV) | MAX MIN | LINEARITY ERROR (dB) | 0.73 -0.77 |
| 40 GHz | INTERCEPT (mV) | 1783 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 25.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 157 | 289 | 424 | 577 | 698 | 816 | 952 | 1087 | 1215 | 1336 | 1433 | 1561 | 1697 | 1831 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -20 | -15 | -8 | 18 | 11 | 2 | 11 | 18 | 19 | 12 | -18 | -18 | -9 | -3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.77 | -0.59 | -0.30 | 0.70 | 0.45 | 0.08 | 0.41 | 0.71 | 0.73 | 0.48 | -0.72 | -0.70 | -0.36 | -0.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.73 -0.77 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">Flatness +/-dB</td> <td style="width: 10%;">1.90</td><td style="width: 10%;">2.10</td><td style="width: 10%;">2.00</td><td style="width: 10%;">1.80</td><td style="width: 10%;">1.00</td><td style="width: 10%;">1.10</td><td style="width: 10%;">1.10</td><td style="width: 10%;">1.00</td><td style="width: 10%;">0.70</td><td style="width: 10%;">1.20</td><td style="width: 10%;">1.10</td><td style="width: 10%;">1.10</td><td style="width: 10%;">1.00</td> </tr> <tr> <td>Max. Video Output (V)</td> <td>0.21</td><td>0.35</td><td>0.48</td><td>0.61</td><td>0.72</td><td>0.85</td><td>0.98</td><td>1.11</td><td>1.24</td><td>1.38</td><td>1.49</td><td>1.62</td><td>1.75</td><td>1.88</td> </tr> <tr> <td>Min. Video Output (V)</td> <td>0.11</td><td>0.24</td><td>0.37</td><td>0.51</td><td>0.66</td><td>0.79</td><td>0.92</td><td>1.05</td><td>1.18</td><td>1.34</td><td>1.43</td><td>1.56</td><td>1.70</td><td>1.83</td> </tr> </table> | | Flatness +/-dB | 1.90 | 2.10 | 2.00 | 1.80 | 1.00 | 1.10 | 1.10 | 1.00 | 0.70 | 1.20 | 1.10 | 1.10 | 1.00 | Max. Video Output (V) | 0.21 | 0.35 | 0.48 | 0.61 | 0.72 | 0.85 | 0.98 | 1.11 | 1.24 | 1.38 | 1.49 | 1.62 | 1.75 | 1.88 | Min. Video Output (V) | 0.11 | 0.24 | 0.37 | 0.51 | 0.66 | 0.79 | 0.92 | 1.05 | 1.18 | 1.34 | 1.43 | 1.56 | 1.70 | 1.83 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Nominal Log Slope mV/dB</td> <td style="width: 50%;">26.02</td> </tr> <tr> <td>Log Slope Variation: ± mV/dB</td> <td>0.95</td> </tr> </table> | | Nominal Log Slope mV/dB | 26.02 | Log Slope Variation: ± mV/dB | 0.95 | | | | | |
| Flatness +/-dB | 1.90 | 2.10 | 2.00 | 1.80 | 1.00 | 1.10 | 1.10 | 1.00 | 0.70 | 1.20 | 1.10 | 1.10 | 1.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max. Video Output (V) | 0.21 | 0.35 | 0.48 | 0.61 | 0.72 | 0.85 | 0.98 | 1.11 | 1.24 | 1.38 | 1.49 | 1.62 | 1.75 | 1.88 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min. Video Output (V) | 0.11 | 0.24 | 0.37 | 0.51 | 0.66 | 0.79 | 0.92 | 1.05 | 1.18 | 1.34 | 1.43 | 1.56 | 1.70 | 1.83 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal Log Slope mV/dB | 26.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Log Slope Variation: ± mV/dB | 0.95 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">Video Output @ -63dBm</td> </tr> <tr> <td>Min(V)= 112.0</td> </tr> <tr> <td>Max(V)= 211.0</td> </tr> </table> | Video Output @ -63dBm | Min(V)= 112.0 | Max(V)= 211.0 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 100%;">Video Output @ +2dBm</td> </tr> <tr> <td>Min(V)= 1831.0</td> </tr> <tr> <td>Max(V)= 1883.0</td> </tr> </table> | Video Output @ +2dBm | Min(V)= 1831.0 | Max(V)= 1883.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Video Output @ -63dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min(V)= 112.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max(V)= 211.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Video Output @ +2dBm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min(V)= 1831.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max(V)= 1883.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

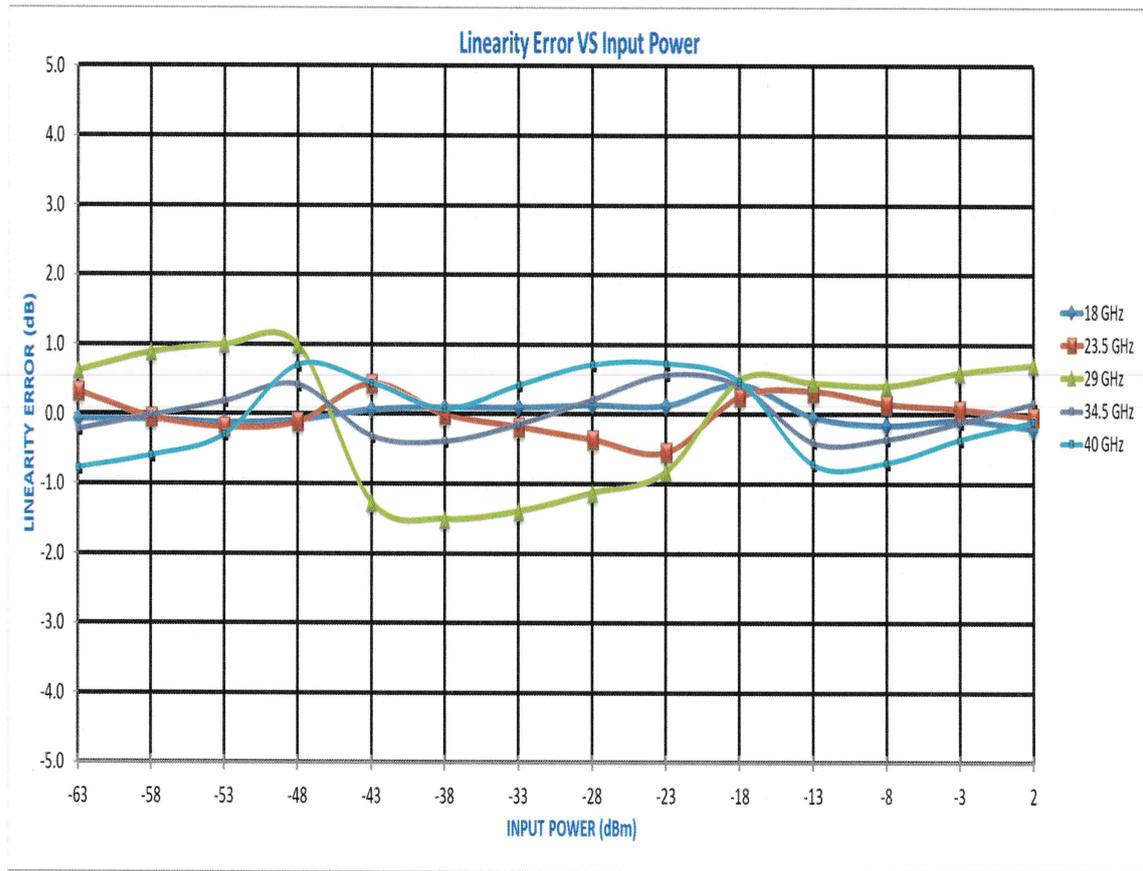


**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF**

PL52147/2517

Graph #1 (cont.)

Log Transfer vs Frequency @+25C





**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF**

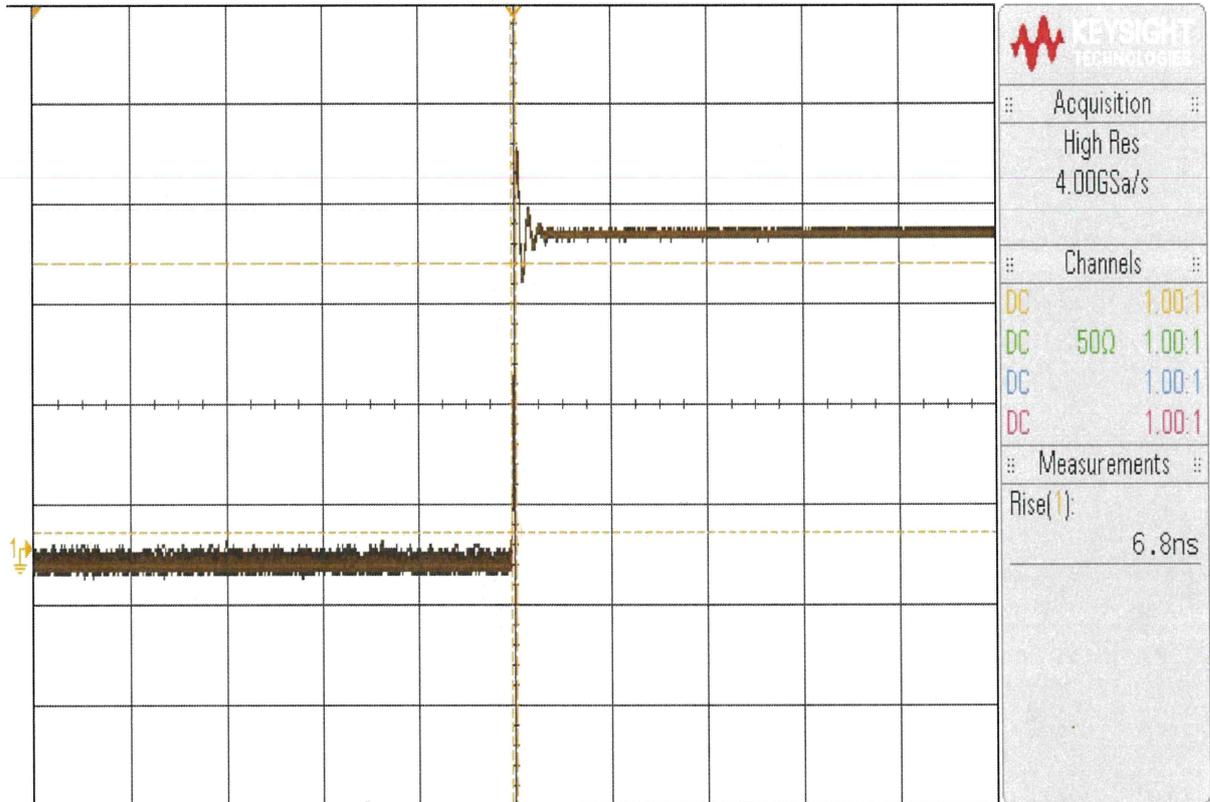
PL52147/2517

Graph #3

Rise Time 6.8nS

DSO-X 3024A, MY54490369: Wed Apr 23 10:20:52 2025

1 500mV/ 2 3 4 201.0ns 200.0ns/ Auto E 2.63V



Measurement Menu

Source | Type: Rise | Add Measurement | Settings | Clear Meas | Statistics



**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF**

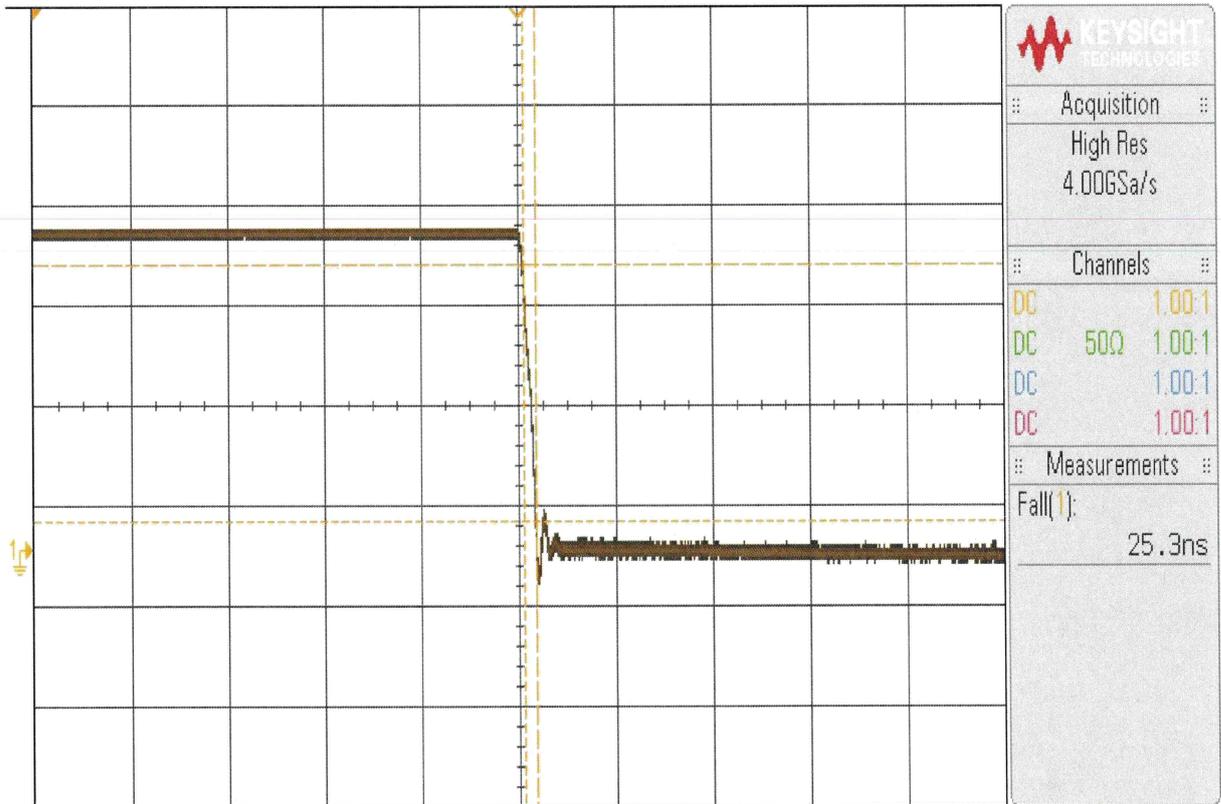
PL52147/2517

Graph #4

Recovery Time 25.3nS

DSO-X 3024A, MY54490369, Wed Apr 23 10:21:39 2025

1 500V/ 2 3 4 251.0% 200.0% Auto E 2.63V



Measurement Menu

Source | Type: Fall | Add Measurement | Settings | Clear Meas | Statistics



**SUMMARY TEST DATA
ON
SDLVA-18G40G-65-CD-292FF**

PL52147/2517

Graph #5

VSWR 1.88:1 @+25C & -20dBm

