



**SUMMARY TEST DATA
ON
HADA-D2001**

PL38214/2245

| | |
|--------------------------------|--|
| Customer: _____ | Tested By: <u>J. Monley</u> |
| SO No: _____ | Temperature: <u>+25°C</u> |
| Model No: <u>HADA-D2001</u> | Date: <u>10/28/22</u> |
| Serial No: <u>PL38214/2245</u> | Drawing No: <u>27620201</u> Rev: <u>A1</u> |

| TEST. ITEM NO | PARAMETERS | SPECIFIED VALUE | TEST RESULTS | QA QC |
|------------------|--|--|--------------------------------------|--------------------------|
| 1 | Frequency Range: | 0.5 GHz – 2.0 GHz | 0.5 GHz – 2.0 GHz See Plot | PMI QA3 |
| 2 | TSS: | -44 dBm Min @ -40°C to +85° | -45 dBm See Plot | |
| 3 | Frequency Flatness: | ±0.75 dB Max | ±0.20 dB See Plot | |
| 4 | Input / Output Characteristics: (93 Ω) | Y = 2350 + 50X [X: Input (dBm), Y: Output (mv)] | Pass | |
| 5 | Logging Accuracy | ±1.5 dB Max (@ +25°C, 1.0 GHz)* [-40 dBm ≤ INPUT ≤ 0 dBm] ±2.2 dB Max (Note) | +0.78 dB +0.96 dB See Plot | |
| 6 | Log Linearity: | ±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C | -0.26 dB -0.46 dB See Plot | |
| 7 | Maximum Input Power (CW): | +23 dBm | Pass | |
| 8 | Duty Cycle: | 100% | Pass | |
| 9 | Rise Time: | 30 ns Max (10% to 90%) | 19.5 nS See Plot | |
| 10 | Fall Time: | 500 ns Max (@ Pulse width 100usec input) (90% to 10%) | 224 nS See Plot | |
| 11 | DC Offset: (Input 50 Ω terminated): | +95 mV +55/-100 mV (@ -40°C to +85°C) | +108 mV +88 mV | |
| 12 | Input VSWR: | 2.5:1 Max @ +23 dBm | 1.14:1 See Plot | |

4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax:
(916)265-2597
Email: sales@pmi-rf.com



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| | | | | |
|----|--------------------|---|------------------------|--------------------|
| 13 | Propagation Delay: | 60 ns Max | 40 ns | PMI QA3 |
| 14 | Power Supply: | +12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max | 90 mA 40 mA | |
| 15 | Warm Up Time: | 2 Minutes Max | 2 Minutes | |

*Notes: Includes Frequency Flatness. Input Power, Temperature Deviation and Deviation for DC Offset. The test shall be performed using RG-316 (or equivalent), 20cm, 93±0.5 Ohms terminated.

QA/QC Approval: *H. Ventura*

Date: 11-14-22



SUMMARY TEST DATA ON HADA-D2001

PL38214/2245

Log Linearity and Log Accuracy @ +25°C

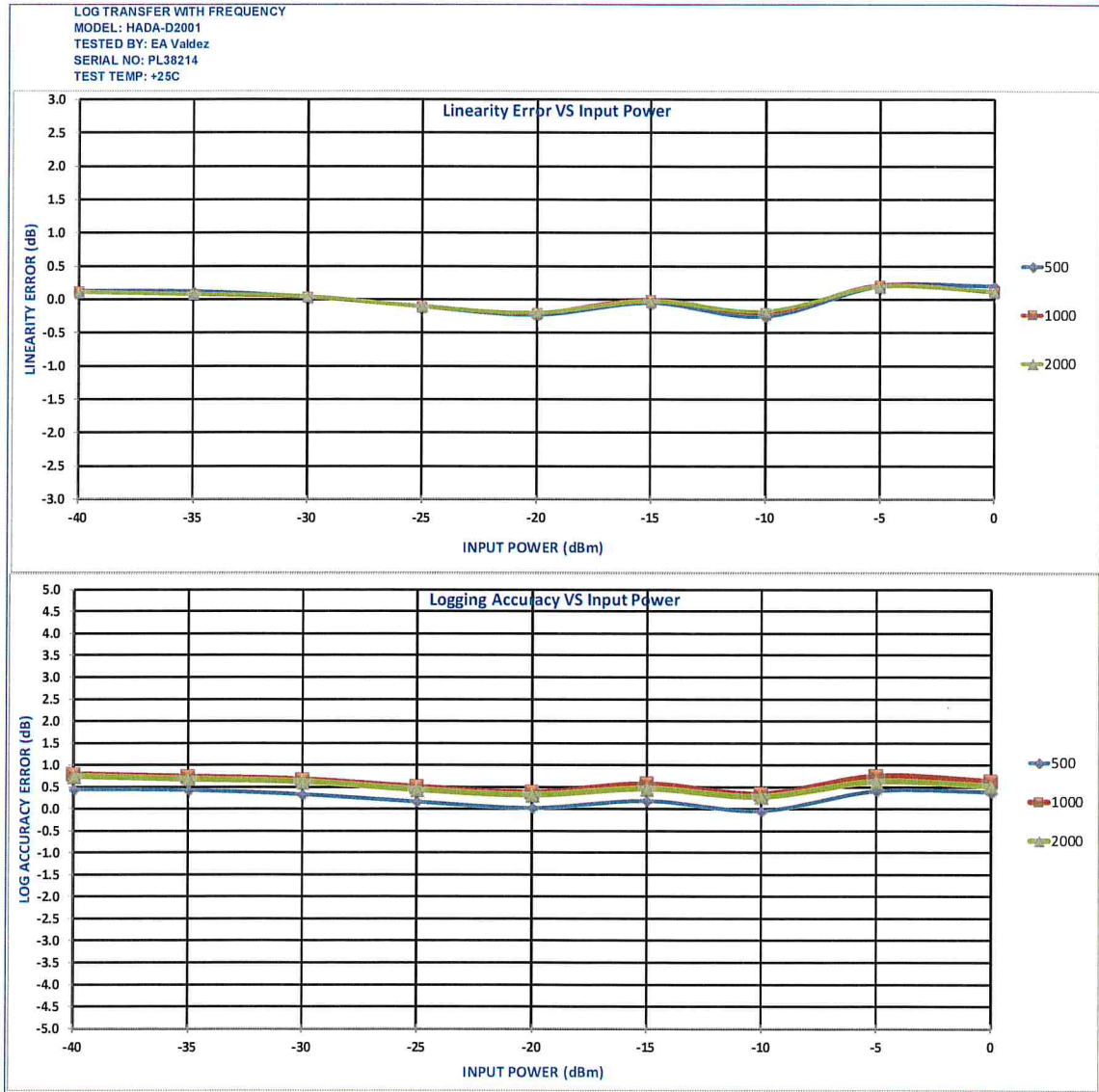
| | | | | | | | | | | | | | | | |
|---|------------------------|------|--------------------|------|------|-------|-------|-------|-------|------|--|--------------------------------|--|-----------|-------|
| <p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: EA Vaklez TEST DATE: 11/03/22 SERIAL NO: PL38214 TEST TEMP: +25C</p> | | | DC Offset= 0.108 V | | | | | | | | <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> | | | | |
| | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | RF Input Power (dBm) | | | |
| Frequency | | | 372 | 621 | 866 | 1108 | 1351 | 1609 | 1848 | 2120 | 2389 | Measured Value (mV) | | Error(dB) | |
| 0.5 GHz | INTERCEPT (mV) | 2359 | 6 | 6 | 2 | -6 | -12 | -3 | -13 | 10 | 10 | Error (mV) | | MAX | MIN |
| | SLOPE (mV/dB) | 49.8 | 0.12 | 0.12 | 0.03 | -0.11 | -0.23 | -0.06 | -0.26 | 0.20 | 0.19 | LINEARITY ERROR (dB) | | 0.20 | -0.26 |
| | | | 0.44 | 0.42 | 0.32 | 0.16 | 0.02 | 0.18 | -0.04 | 0.40 | 0.38 | LOGGING ACCURACY (dB) | | 0.44 | -0.04 |
| 1 GHz | INTERCEPT (mV) | 2376 | 389 | 636 | 883 | 1125 | 1369 | 1628 | 1867 | 2137 | 2381 | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 49.8 | 8 | 4 | 2 | -5 | -10 | 0 | -11 | 10 | 5 | Error (mV) | | MAX | MIN |
| | | | 0.11 | 0.07 | 0.03 | -0.11 | -0.21 | -0.01 | -0.21 | 0.21 | 0.11 | LINEARITY ERROR (dB) | | 0.21 | -0.21 |
| | | | 0.78 | 0.72 | 0.66 | 0.50 | 0.38 | 0.58 | 0.34 | 0.74 | 0.62 | LOGGING ACCURACY (dB) | | 0.78 | 0.34 |
| 2 GHz | INTERCEPT (mV) | 2370 | 387 | 634 | 881 | 1122 | 1366 | 1623 | 1864 | 2131 | 2376 | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 49.7 | 5 | 4 | 2 | -5 | -10 | -2 | -9 | 9 | 6 | Error (mV) | | MAX | MIN |
| | | | 0.11 | 0.07 | 0.04 | -0.11 | -0.20 | -0.03 | -0.18 | 0.19 | 0.12 | LINEARITY ERROR (dB) | | 0.19 | -0.20 |
| | | | 0.74 | 0.68 | 0.62 | 0.44 | 0.32 | 0.46 | 0.28 | 0.52 | 0.52 | LOGGING ACCURACY (dB) | | 0.74 | 0.28 |
| | Flatness +/- dB | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | | | | |
| | Max Video Output Volts | | 0.39 | 0.64 | 0.88 | 1.13 | 1.37 | 1.63 | 1.87 | 2.14 | 2.38 | | | | |
| | Min Video Output Volts | | 0.37 | 0.62 | 0.87 | 1.11 | 1.35 | 1.61 | 1.85 | 2.12 | 2.37 | | | | |
| | | | | | | | | | | | | Logging Linearity vs Frequency | | Error(dB) | |
| | | | | | | | | | | | | TOTAL LOG LINEARITY (dB) | | MAX | MIN |
| | | | | | | | | | | | | TOTAL LOG LINEARITY (dB) | | 0.21 | -0.26 |
| | | | | | | | | | | | | Logging Accuracy vs Frequency | | Error(dB) | |
| | | | | | | | | | | | | TOTAL LOGGING ACCURACY (dB) | | MAX | MIN |
| | | | | | | | | | | | | TOTAL LOGGING ACCURACY (dB) | | 0.78 | -0.04 |



SUMMARY TEST DATA ON HADA-D2001

PL38214/2245

Log Linearity and Log Accuracy @ +25°C





SUMMARY TEST DATA ON HADA-D2001

PL38214/2245

Log Linearity and Log Accuracy @ -40°C

| <p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: EA Valdez TEST DATE: 11/03/22 SERIAL NO: PL38214 TEST TEMP: -40C</p> | | | DC Offset= 0.088 V | | | | | | | | | | <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> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------|---------------|--|----------------|---------------|---------|------|-------|-------|------|------|-------|--|-----|-----------------|-----|------------------------|-----|------------------------|----|---|--|--|-----|-----|-----|------|------|------|------|------|------|--|--|---|----|---|----|-----|---|---|----|----|--|--|------|-------|------|-------|-------|------|------|------|-------|--|--|------|------|------|------|-------|------|------|------|-------|--|--|-----|-----|-----|------|------|------|------|------|------|--|--|---|----|---|----|----|---|---|---|-----|--|--|------|-------|------|-------|-------|------|------|------|-------|--|--|------|------|------|------|------|------|------|------|-------|--|--|-----|-----|-----|------|------|------|------|------|------|--|--|---|----|---|----|----|---|----|---|-----|--|--|------|-------|------|-------|-------|------|------|------|-------|--|--|------|------|------|------|------|------|------|------|-------|--|--|------|------|------|------|------|------|------|------|------|--|--|------|------|------|------|------|------|------|------|------|--|--|------|------|------|------|------|------|------|------|------|--|--|--|--|--|----------------------|--|---------------------|-----------|------------|---------|----------------------|------------|-----------------------|------------|---------------------|--|-----------|--|------------|-----|-----|--|----------------------|------|-------|--|-----------------------|------|-------|--|---------------------|--|-----------|--|------------|-----|-----|--|----------------------|------|-------|--|-----------------------|------|-------|--|--------------------------------|--|-----------|--|--------------------------|------|-----|--|-------------------------------|--|-----------|--|-----------------------------|------|-----|--|
| | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">-40</th> <th style="width: 5%;">-35</th> <th style="width: 5%;">-30</th> <th style="width: 5%;">-25</th> <th style="width: 5%;">-20</th> <th style="width: 5%;">-15</th> <th style="width: 5%;">-10</th> <th style="width: 5%;">-5</th> <th style="width: 5%;">0</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>379</td><td>616</td><td>868</td><td>1109</td><td>1349</td><td>1609</td><td>1856</td><td>2107</td><td>2336</td><td colspan="2"></td> </tr> <tr> <td>5</td><td>-2</td><td>1</td><td>-4</td><td>-10</td><td>4</td><td>4</td><td>10</td><td>-7</td><td colspan="2"></td> </tr> <tr> <td>0.10</td><td>-0.05</td><td>0.03</td><td>-0.08</td><td>-0.20</td><td>0.08</td><td>0.08</td><td>0.20</td><td>-0.15</td><td colspan="2"></td> </tr> <tr> <td>0.58</td><td>0.36</td><td>0.36</td><td>0.18</td><td>-0.02</td><td>0.18</td><td>0.10</td><td>0.14</td><td>-0.28</td><td colspan="2"></td> </tr> <tr> <td>398</td><td>634</td><td>886</td><td>1127</td><td>1370</td><td>1629</td><td>1877</td><td>2122</td><td>2346</td><td colspan="2"></td> </tr> <tr> <td>4</td><td>-6</td><td>1</td><td>-4</td><td>-7</td><td>7</td><td>9</td><td>8</td><td>-13</td><td colspan="2"></td> </tr> <tr> <td>0.08</td><td>-0.11</td><td>0.02</td><td>-0.08</td><td>-0.13</td><td>0.14</td><td>0.19</td><td>0.17</td><td>-0.27</td><td colspan="2"></td> </tr> <tr> <td>0.96</td><td>0.68</td><td>0.72</td><td>0.54</td><td>0.40</td><td>0.58</td><td>0.54</td><td>0.44</td><td>-0.08</td><td colspan="2"></td> </tr> <tr> <td>398</td><td>633</td><td>886</td><td>1126</td><td>1368</td><td>1626</td><td>1876</td><td>2119</td><td>2342</td><td colspan="2"></td> </tr> <tr> <td>4</td><td>-6</td><td>2</td><td>-4</td><td>-7</td><td>6</td><td>11</td><td>8</td><td>-14</td><td colspan="2"></td> </tr> <tr> <td>0.08</td><td>-0.13</td><td>0.03</td><td>-0.07</td><td>-0.14</td><td>0.12</td><td>0.22</td><td>0.17</td><td>-0.28</td><td colspan="2"></td> </tr> <tr> <td>0.96</td><td>0.66</td><td>0.72</td><td>0.52</td><td>0.36</td><td>0.52</td><td>0.52</td><td>0.36</td><td>-0.16</td><td colspan="2"></td> </tr> <tr> <td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.20</td><td>0.10</td><td colspan="2"></td> </tr> <tr> <td>0.40</td><td>0.63</td><td>0.89</td><td>1.13</td><td>1.37</td><td>1.63</td><td>1.88</td><td>2.12</td><td>2.35</td><td colspan="2"></td> </tr> <tr> <td>0.38</td><td>0.62</td><td>0.87</td><td>1.11</td><td>1.35</td><td>1.61</td><td>1.86</td><td>2.11</td><td>2.34</td><td colspan="2"></td> </tr> </tbody> </table> | | | | | | | | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | 379 | 616 | 868 | 1109 | 1349 | 1609 | 1856 | 2107 | 2336 | | | 5 | -2 | 1 | -4 | -10 | 4 | 4 | 10 | -7 | | | 0.10 | -0.05 | 0.03 | -0.08 | -0.20 | 0.08 | 0.08 | 0.20 | -0.15 | | | 0.58 | 0.36 | 0.36 | 0.18 | -0.02 | 0.18 | 0.10 | 0.14 | -0.28 | | | 398 | 634 | 886 | 1127 | 1370 | 1629 | 1877 | 2122 | 2346 | | | 4 | -6 | 1 | -4 | -7 | 7 | 9 | 8 | -13 | | | 0.08 | -0.11 | 0.02 | -0.08 | -0.13 | 0.14 | 0.19 | 0.17 | -0.27 | | | 0.96 | 0.68 | 0.72 | 0.54 | 0.40 | 0.58 | 0.54 | 0.44 | -0.08 | | | 398 | 633 | 886 | 1126 | 1368 | 1626 | 1876 | 2119 | 2342 | | | 4 | -6 | 2 | -4 | -7 | 6 | 11 | 8 | -14 | | | 0.08 | -0.13 | 0.03 | -0.07 | -0.14 | 0.12 | 0.22 | 0.17 | -0.28 | | | 0.96 | 0.66 | 0.72 | 0.52 | 0.36 | 0.52 | 0.52 | 0.36 | -0.16 | | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | | | 0.40 | 0.63 | 0.89 | 1.13 | 1.37 | 1.63 | 1.88 | 2.12 | 2.35 | | | 0.38 | 0.62 | 0.87 | 1.11 | 1.35 | 1.61 | 1.86 | 2.11 | 2.34 | | | <table border="1" style="width: 100%; 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border-collapse: collapse;"> <thead> <tr> <th colspan="2">Logging Linearity vs Frequency</th> <th colspan="2">Error(dB)</th> </tr> </thead> <tbody> <tr> <td>TOTAL LOG LINEARITY (dB)</td> <td>0.22</td> <td>MIN</td> <td></td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Logging Accuracy vs Frequency</th> <th colspan="2">Error(dB)</th> </tr> </thead> <tbody> <tr> <td>TOTAL LOGGING ACCURACY (dB)</td> <td>0.96</td> <td>MIN</td> <td></td> </tr> </tbody> </table> | | | RF Input Power (dBm) | | Measured Value (mV) | Error(dB) | Error (mV) | MAX MIN | LINEARITY ERROR (dB) | 0.20 -0.20 | LOGGING ACCURACY (dB) | 0.58 -0.28 | Measured Value (mV) | | Error(dB) | | Error (mV) | MAX | MIN | | LINEARITY ERROR (dB) | 0.19 | -0.27 | | LOGGING ACCURACY (dB) | 0.96 | -0.08 | | Measured Value (mV) | | Error(dB) | | Error (mV) | MAX | MIN | | LINEARITY ERROR (dB) | 0.22 | -0.28 | | LOGGING ACCURACY (dB) | 0.96 | -0.16 | | Logging Linearity vs Frequency | | Error(dB) | | TOTAL LOG LINEARITY (dB) | 0.22 | MIN | | Logging Accuracy vs Frequency | | Error(dB) | | TOTAL LOGGING ACCURACY (dB) | 0.96 | MIN | |
| -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 379 | 616 | 868 | 1109 | 1349 | 1609 | 1856 | 2107 | 2336 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | -2 | 1 | -4 | -10 | 4 | 4 | 10 | -7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.10 | -0.05 | 0.03 | -0.08 | -0.20 | 0.08 | 0.08 | 0.20 | -0.15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.58 | 0.36 | 0.36 | 0.18 | -0.02 | 0.18 | 0.10 | 0.14 | -0.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 398 | 634 | 886 | 1127 | 1370 | 1629 | 1877 | 2122 | 2346 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | -6 | 1 | -4 | -7 | 7 | 9 | 8 | -13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.08 | -0.11 | 0.02 | -0.08 | -0.13 | 0.14 | 0.19 | 0.17 | -0.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.96 | 0.68 | 0.72 | 0.54 | 0.40 | 0.58 | 0.54 | 0.44 | -0.08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 398 | 633 | 886 | 1126 | 1368 | 1626 | 1876 | 2119 | 2342 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | -6 | 2 | -4 | -7 | 6 | 11 | 8 | -14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.08 | -0.13 | 0.03 | -0.07 | -0.14 | 0.12 | 0.22 | 0.17 | -0.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.96 | 0.66 | 0.72 | 0.52 | 0.36 | 0.52 | 0.52 | 0.36 | -0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.40 | 0.63 | 0.89 | 1.13 | 1.37 | 1.63 | 1.88 | 2.12 | 2.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.38 | 0.62 | 0.87 | 1.11 | 1.35 | 1.61 | 1.86 | 2.11 | 2.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Input Power (dBm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.20 -0.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.58 -0.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.19 | -0.27 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.96 | -0.08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.22 | -0.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.96 | -0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Linearity vs Frequency | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOG LINEARITY (dB) | 0.22 | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Accuracy vs Frequency | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOGGING ACCURACY (dB) | 0.96 | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Frequency</th> <th style="width: 25%;">INTERCEPT (mV)</th> <th style="width: 25%;">SLOPE (mV/dB)</th> </tr> </thead> <tbody> <tr> <td>0.5 GHz</td> <td>2343</td> <td>49.2</td> </tr> <tr> <td>1 GHz</td> <td>2359</td> <td>49.1</td> </tr> <tr> <td>2 GHz</td> <td>2356</td> <td>49</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Flatness +/- dB</th> </tr> </thead> <tbody> <tr> <td>Max Video Output Volts</td> <td></td> </tr> <tr> <td>Min Video Output Volts</td> <td></td> </tr> </tbody> </table> | | | Frequency | INTERCEPT (mV) | SLOPE (mV/dB) | 0.5 GHz | 2343 | 49.2 | 1 GHz | 2359 | 49.1 | 2 GHz | 2356 | 49 | Flatness +/- dB | | Max Video Output Volts | | Min Video Output Volts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency | INTERCEPT (mV) | SLOPE (mV/dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 GHz | 2343 | 49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 GHz | 2359 | 49.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 GHz | 2356 | 49 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flatness +/- dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max Video Output Volts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min Video Output Volts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

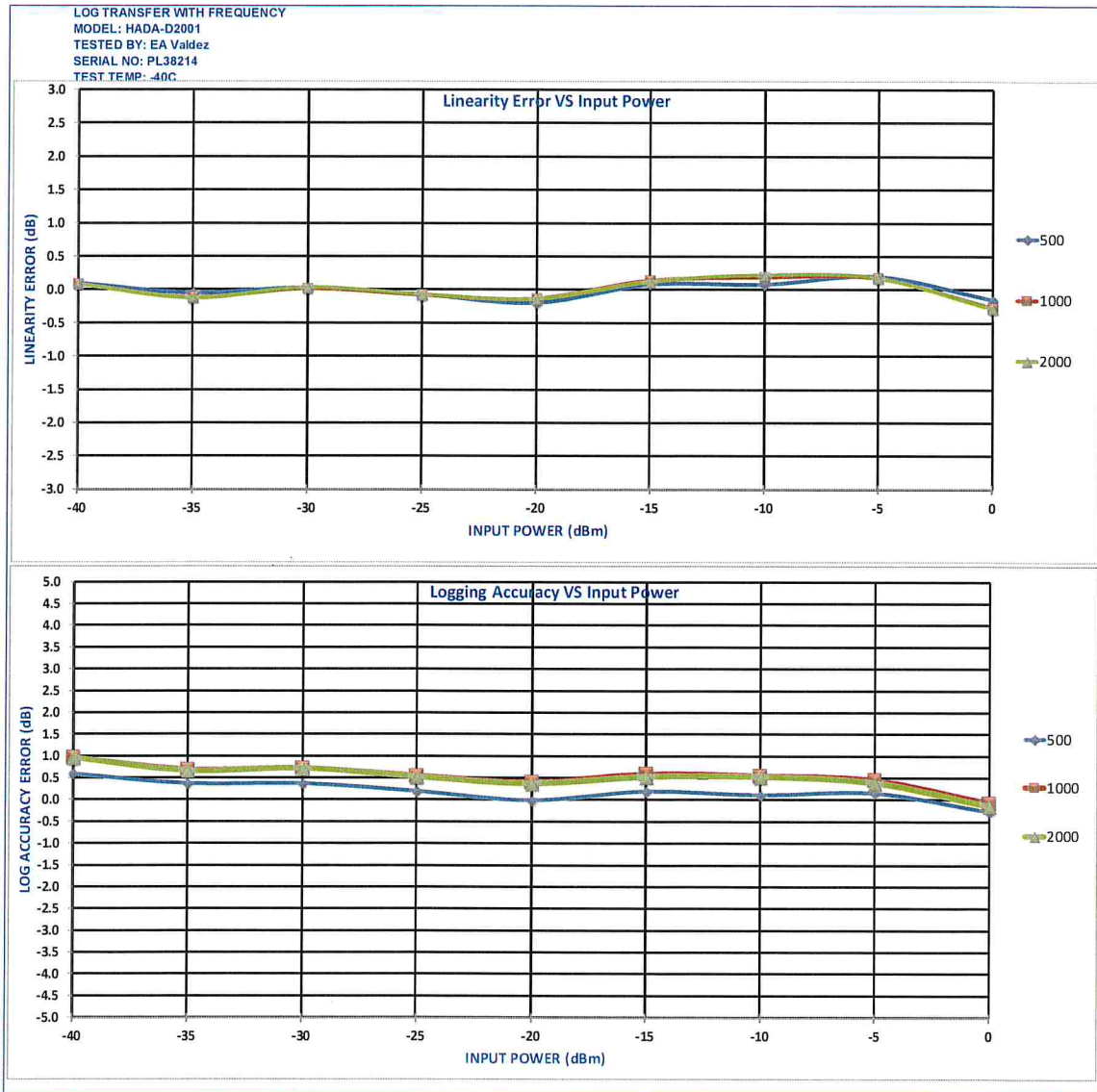
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
 Email: sales@pmi-rf.com



SUMMARY TEST DATA ON HADA-D2001

PL38214/2245

Log Linearity and Log Accuracy @ -40°C





SUMMARY TEST DATA ON HADA-D2001

PL38214/2245

Log Linearity and Log Accuracy @ +85°C

| LOG TRANSFER WITH FREQUENCY | | DC Offset= 0.061 V | | | | | | | | | | RF Input Power (dBm) | | |
|---|----------------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------------------|---|-----------|-------|
| MODEL: HADA-D2001 TESTED BY: EA Valdez TEST DATE: 11/03/22 SERIAL NO: PL38214 TEST TEMP: +85C | | | | | | | | | | | | 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 | | |
| Frequency | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | |
| 0.5 GHz | INTERCEPT (mV) | 2326 | | | | | | | | | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 50.5 | | | | | | | | | Error (mV) | | MAX | MIN |
| | | -7 | 17 | 7 | -1 | -8 | -8 | -23 | 3 | 20 | LINEARITY ERROR (dB) | | 0.40 | -0.46 |
| | | -0.14 | 0.33 | 0.15 | -0.02 | -0.17 | -0.16 | -0.46 | 0.07 | 0.40 | LOGGING ACCURACY (dB) | | -0.08 | -1.04 |
| | | -1.00 | -0.48 | -0.62 | -0.74 | -0.84 | -0.78 | -1.04 | -0.46 | -0.08 | | | | |
| 1 GHz | INTERCEPT (mV) | 2344 | | | | | | | | | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 50.5 | | | | | | | | | Error (mV) | | MAX | MIN |
| | | -8 | 16 | 7 | -2 | -7 | -6 | -21 | 6 | 15 | LINEARITY ERROR (dB) | | 0.31 | -0.41 |
| | | -0.16 | 0.31 | 0.15 | -0.04 | -0.14 | -0.11 | -0.41 | 0.12 | 0.29 | LOGGING ACCURACY (dB) | | 0.18 | -0.64 |
| | | -0.64 | -0.12 | -0.24 | -0.38 | -0.44 | -0.36 | -0.62 | -0.04 | 0.18 | | | | |
| 2 GHz | INTERCEPT (mV) | 2338 | | | | | | | | | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 50.4 | | | | | | | | | Error (mV) | | MAX | MIN |
| | | 7 | 15 | 8 | -2 | -8 | -7 | -20 | 4 | 17 | LINEARITY ERROR (dB) | | 0.33 | -0.41 |
| | | -0.14 | 0.30 | 0.16 | -0.04 | -0.15 | -0.13 | -0.41 | 0.07 | 0.33 | LOGGING ACCURACY (dB) | | 0.10 | -0.72 |
| | | -0.68 | -0.20 | -0.30 | -0.45 | -0.53 | -0.48 | -0.72 | -0.20 | 0.10 | | | | |
| Flatness +/- dB | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | Logging Linearity vs Frequency | | Error(dB) | |
| Max Video Output Volts | | 0.32 | 0.59 | 0.84 | 1.06 | 1.33 | 1.58 | 1.82 | 2.10 | 2.38 | TOTAL LOG LINEARITY (dB) | | 0.40 | -0.46 |
| Min Video Output Volts | | 0.30 | 0.58 | 0.82 | 1.06 | 1.31 | 1.56 | 1.80 | 2.08 | 2.35 | Logging Accuracy vs Frequency | | Error(dB) | |
| | | | | | | | | | | | TOTAL LOGGING ACCURACY (dB) | | 0.18 | -1.04 |

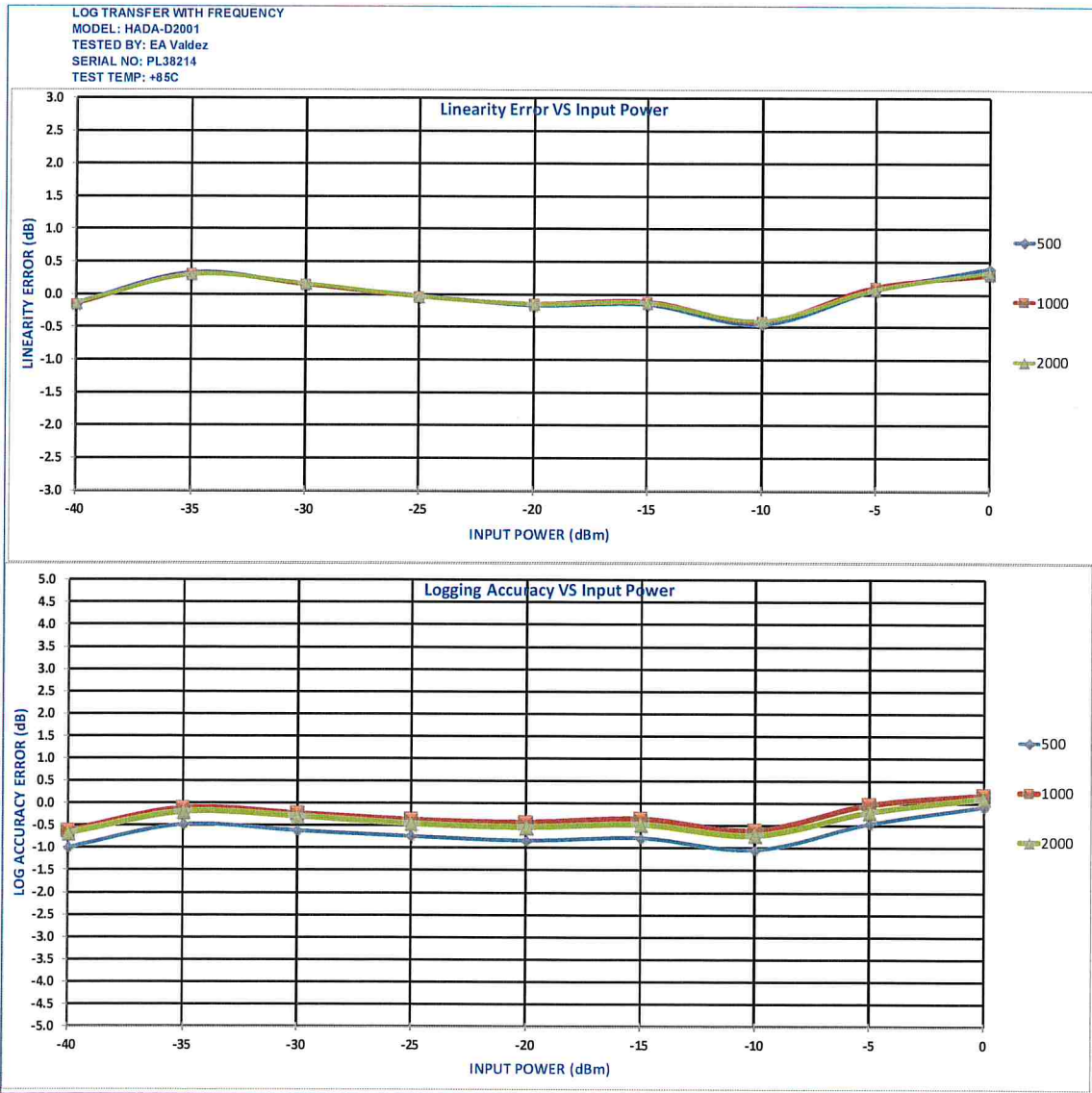
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
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SUMMARY TEST DATA ON HADA-D2001

PL38214/2245

Log Linearity and Log Accuracy @ +85°C



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**SUMMARY TEST DATA
ON
HADA-D2001**

PL38214/2245

TSS @ -45 dBm



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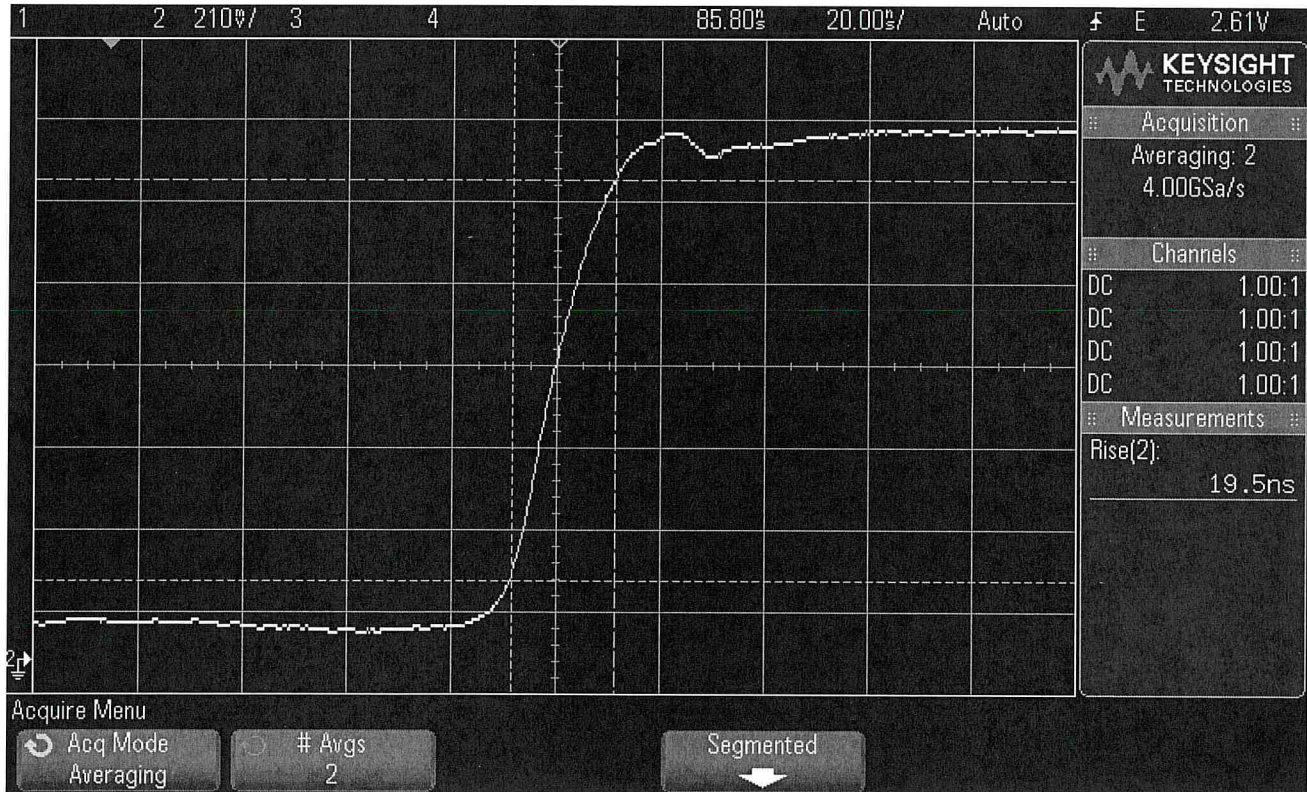


**SUMMARY TEST DATA
ON
HADA-D2001**

PL38214/2245

Rise Time 19.5nS

DSO-X 3024A, MY54490369, Tue Nov 08 18:29:33 2022



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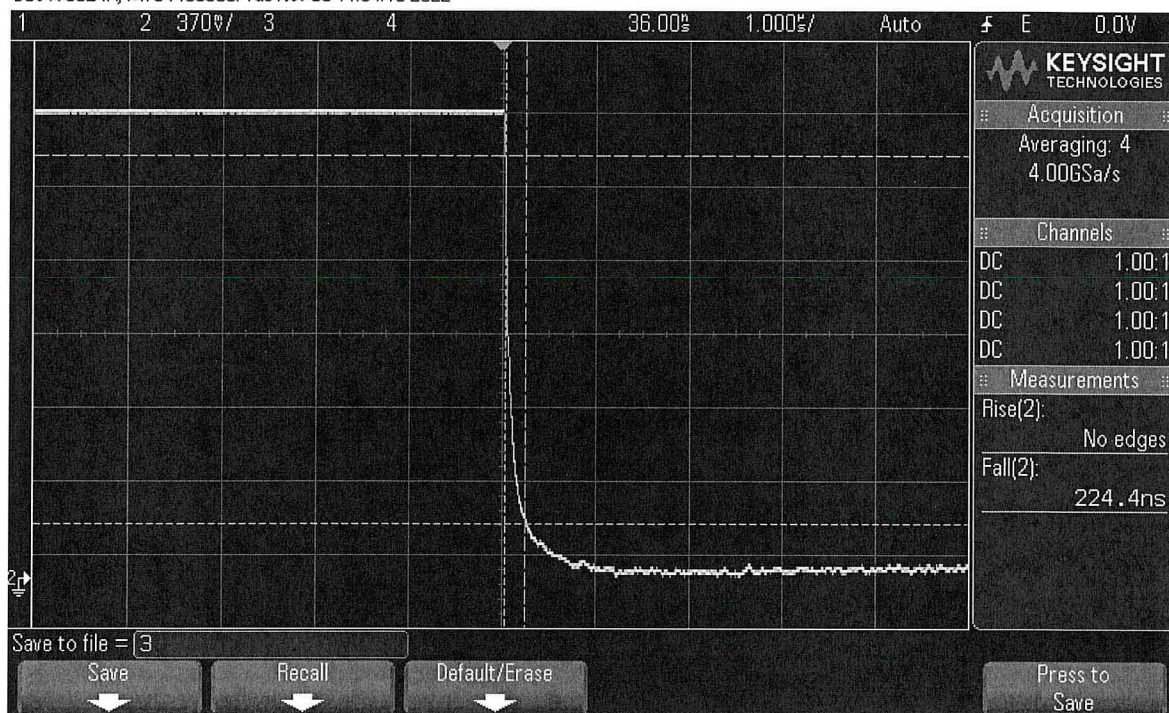


**SUMMARY TEST DATA
ON
HADA-D2001**

PL38214/2245

Fall Time 224.4nS

DSO-X 3024A, MY54490369: Tue Nov 08 11:04:15 2022



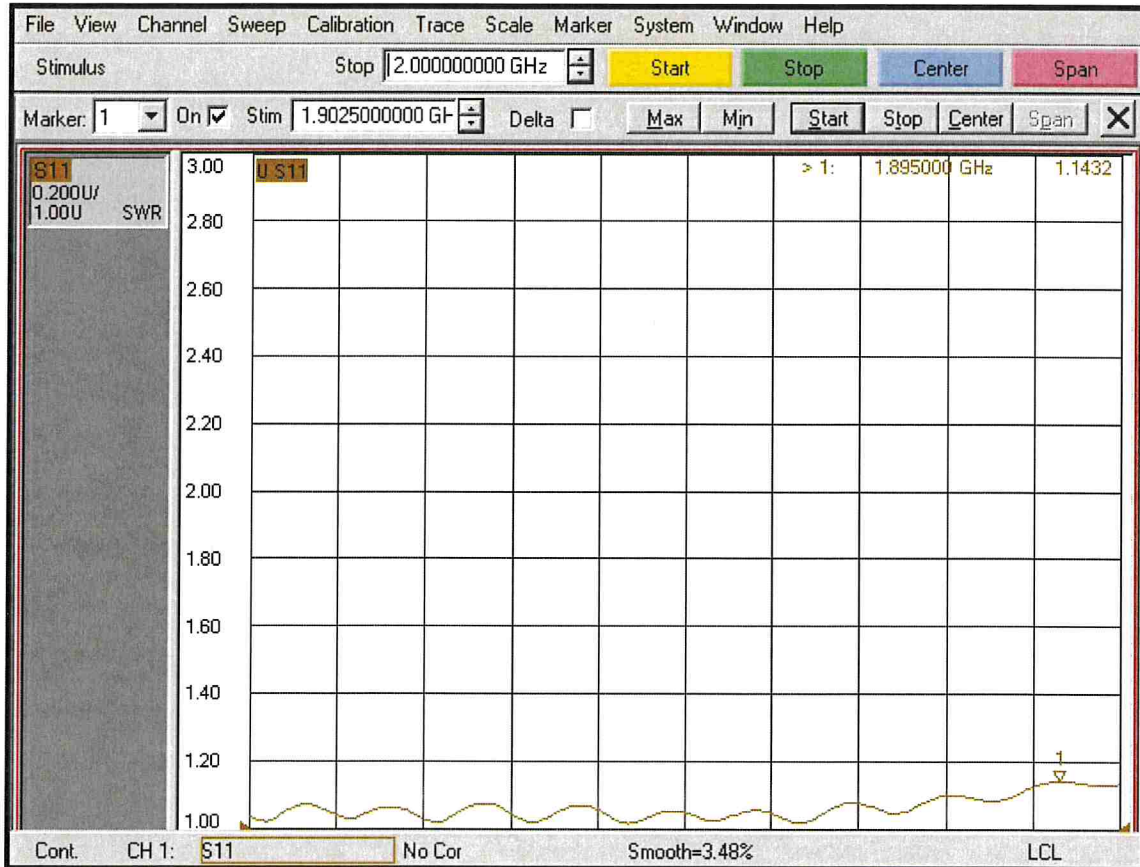
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**SUMMARY TEST DATA
ON
HADA-D2001**

PL38214/2245

VSWR 114:1



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