



**SUMMARY TEST DATA
ON
HADA-D2001**

PL38225/2245

| | |
|--------------------------------|--|
| 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>PL38225/2245</u> | Drawing No: <u>2 520201</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) | -0.60 dB -1.08 dB See Plot | |
| 6 | Log Linearity: | ±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C | -0.29 dB +0.52 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%) | 16.3 ns See Plot | |
| 10 | Fall Time: | 500 ns Max (@ Pulse width 100usec input) (90% to 10%) | 218 ns See Plot | |
| 11 | DC Offset: (Input 50 Ω terminated): | +95 mV +55/-100 mV (@ -40°C to +85°C) | +108 mV +106 mV | |
| 12 | Input VSWR: | 2.5:1 Max @ +23 dBm | 1.14:1 See Plot | |

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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:

K. Kuter

Date:

11-14-22

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SUMMARY TEST DATA ON HADA-D2001

PL38225/2245

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: PL38225 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> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------------|-----------|-------------------------------|----------------|------------------------|-------|-----------------------------|-------|---|--|--|------|--|--|--|--|--|--|-----|-----|-----|-----|-----|-----|--------------------------------|----|-----------|--|--------------------------|------|------|------|------|------|-------|------|--|------|--|-------------------------------|------|-----------|------|-----------------------------|------|------|------|------|------|-------|--|-------|------|------|-------|-------|-------|-------|------|------|--|--|--|------|------|--------------------------------|-------|-----------|-------|--------------------------|-------|-----|--|---|------|-------|----------------------|--|---------------------|-----------|------------|---------|----------------------|------------|-----------------------|------------|-------|--|-----------------------|------|-------|--|
| <p>Frequency</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">0.5 GHz</td> <td style="background-color: #e0e0e0;">INTERCEPT (mV)</td> <td style="text-align: right;">2334</td> </tr> <tr> <td style="background-color: #e0e0e0;"></td> <td style="background-color: #e0e0e0;">SLOPE (mV/dB)</td> <td style="text-align: right;">49.3</td> </tr> </table> | | | 0.5 GHz | INTERCEPT (mV) | 2334 | | SLOPE (mV/dB) | 49.3 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="background-color: #e0e0e0;">-40</th> <th style="background-color: #e0e0e0;">-35</th> <th style="background-color: #e0e0e0;">-30</th> <th style="background-color: #e0e0e0;">-25</th> <th style="background-color: #e0e0e0;">-20</th> <th style="background-color: #e0e0e0;">-15</th> <th style="background-color: #e0e0e0;">-10</th> <th style="background-color: #e0e0e0;">-5</th> <th style="background-color: #e0e0e0;">0</th> <th colspan="2"></th> </tr> <tr> <td style="background-color: #e0e0e0;">362</td> <td style="background-color: #e0e0e0;">618</td> <td style="background-color: #e0e0e0;">869</td> <td style="background-color: #e0e0e0;">1098</td> <td style="background-color: #e0e0e0;">1338</td> <td style="background-color: #e0e0e0;">1594</td> <td style="background-color: #e0e0e0;">1827</td> <td style="background-color: #e0e0e0;">2095</td> <td style="background-color: #e0e0e0;">2344</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">0</td> <td style="background-color: #e0e0e0;">9</td> <td style="background-color: #e0e0e0;">4</td> <td style="background-color: #e0e0e0;">-4</td> <td style="background-color: #e0e0e0;">-10</td> <td style="background-color: #e0e0e0;">-1</td> <td style="background-color: #e0e0e0;">-14</td> <td style="background-color: #e0e0e0;">7</td> <td style="background-color: #e0e0e0;">10</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">-0.01</td> <td style="background-color: #e0e0e0;">0.19</td> <td style="background-color: #e0e0e0;">0.08</td> <td style="background-color: #e0e0e0;">-0.08</td> <td style="background-color: #e0e0e0;">-0.21</td> <td style="background-color: #e0e0e0;">-0.02</td> <td style="background-color: #e0e0e0;">-0.29</td> <td style="background-color: #e0e0e0;">0.14</td> <td style="background-color: #e0e0e0;">0.19</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">0.24</td> <td style="background-color: #e0e0e0;">0.36</td> <td style="background-color: #e0e0e0;">0.18</td> <td style="background-color: #e0e0e0;">-0.04</td> <td style="background-color: #e0e0e0;">-0.24</td> <td style="background-color: #e0e0e0;">-0.12</td> <td style="background-color: #e0e0e0;">-0.46</td> <td style="background-color: #e0e0e0;">-0.10</td> <td style="background-color: #e0e0e0;">-0.12</td> <td colspan="2"></td> </tr> </table> | | | | | | | | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | 362 | 618 | 869 | 1098 | 1338 | 1594 | 1827 | 2095 | 2344 | | | 0 | 9 | 4 | -4 | -10 | -1 | -14 | 7 | 10 | | | -0.01 | 0.19 | 0.08 | -0.08 | -0.21 | -0.02 | -0.29 | 0.14 | 0.19 | | | 0.24 | 0.36 | 0.18 | -0.04 | -0.24 | -0.12 | -0.46 | -0.10 | -0.12 | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">RF Input Power (dBm)</th> </tr> <tr> <td style="background-color: #e0e0e0;">Measured Value (mV)</td> <td style="background-color: #e0e0e0;">Error(dB)</td> </tr> <tr> <td style="background-color: #e0e0e0;">Error (mV)</td> <td style="background-color: #e0e0e0;">MAX MIN</td> </tr> <tr> <td style="background-color: #e0e0e0;">LINEARITY ERROR (dB)</td> <td style="text-align: center;">0.19 -0.29</td> </tr> <tr> <td style="background-color: #e0e0e0;">LOGGING ACCURACY (dB)</td> <td style="text-align: center;">0.36 -0.46</td> </tr> </table> | | | RF Input Power (dBm) | | Measured Value (mV) | Error(dB) | Error (mV) | MAX MIN | LINEARITY ERROR (dB) | 0.19 -0.29 | LOGGING ACCURACY (dB) | 0.36 -0.46 | | | | | | |
| 0.5 GHz | INTERCEPT (mV) | 2334 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 362 | 618 | 869 | 1098 | 1338 | 1594 | 1827 | 2095 | 2344 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 9 | 4 | -4 | -10 | -1 | -14 | 7 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.01 | 0.19 | 0.08 | -0.08 | -0.21 | -0.02 | -0.29 | 0.14 | 0.19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.24 | 0.36 | 0.18 | -0.04 | -0.24 | -0.12 | -0.46 | -0.10 | -0.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Input Power (dBm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.19 -0.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.36 -0.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">1 GHz</td> <td style="background-color: #e0e0e0;">INTERCEPT (mV)</td> <td style="text-align: right;">2348</td> </tr> <tr> <td style="background-color: #e0e0e0;"></td> <td style="background-color: #e0e0e0;">SLOPE (mV/dB)</td> <td style="text-align: right;">49.3</td> </tr> </table> | | | 1 GHz | INTERCEPT (mV) | 2348 | | SLOPE (mV/dB) | 49.3 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="background-color: #e0e0e0;">-40</th> <th style="background-color: #e0e0e0;">-35</th> <th style="background-color: #e0e0e0;">-30</th> <th style="background-color: #e0e0e0;">-25</th> <th style="background-color: #e0e0e0;">-20</th> <th style="background-color: #e0e0e0;">-15</th> <th style="background-color: #e0e0e0;">-10</th> <th style="background-color: #e0e0e0;">-5</th> <th style="background-color: #e0e0e0;">0</th> <th colspan="2"></th> </tr> <tr> <td style="background-color: #e0e0e0;">377</td> <td style="background-color: #e0e0e0;">630</td> <td style="background-color: #e0e0e0;">874</td> <td style="background-color: #e0e0e0;">1113</td> <td style="background-color: #e0e0e0;">1354</td> <td style="background-color: #e0e0e0;">1610</td> <td style="background-color: #e0e0e0;">1844</td> <td style="background-color: #e0e0e0;">2109</td> <td style="background-color: #e0e0e0;">2354</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">0</td> <td style="background-color: #e0e0e0;">6</td> <td style="background-color: #e0e0e0;">4</td> <td style="background-color: #e0e0e0;">-3</td> <td style="background-color: #e0e0e0;">-9</td> <td style="background-color: #e0e0e0;">1</td> <td style="background-color: #e0e0e0;">-12</td> <td style="background-color: #e0e0e0;">7</td> <td style="background-color: #e0e0e0;">6</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">-0.01</td> <td style="background-color: #e0e0e0;">0.13</td> <td style="background-color: #e0e0e0;">0.08</td> <td style="background-color: #e0e0e0;">-0.07</td> <td style="background-color: #e0e0e0;">-0.18</td> <td style="background-color: #e0e0e0;">0.02</td> <td style="background-color: #e0e0e0;">-0.23</td> <td style="background-color: #e0e0e0;">0.14</td> <td style="background-color: #e0e0e0;">0.12</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">0.54</td> <td style="background-color: #e0e0e0;">0.60</td> <td style="background-color: #e0e0e0;">0.49</td> <td style="background-color: #e0e0e0;">0.26</td> <td style="background-color: #e0e0e0;">0.08</td> <td style="background-color: #e0e0e0;">0.20</td> <td style="background-color: #e0e0e0;">-0.12</td> <td style="background-color: #e0e0e0;">0.18</td> <td style="background-color: #e0e0e0;">0.08</td> <td colspan="2"></td> </tr> </table> | | | | | | | | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | 377 | 630 | 874 | 1113 | 1354 | 1610 | 1844 | 2109 | 2354 | | | 0 | 6 | 4 | -3 | -9 | 1 | -12 | 7 | 6 | | | -0.01 | 0.13 | 0.08 | -0.07 | -0.18 | 0.02 | -0.23 | 0.14 | 0.12 | | | 0.54 | 0.60 | 0.49 | 0.26 | 0.08 | 0.20 | -0.12 | 0.18 | 0.08 | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">Measured Value (mV)</th> <th colspan="2" style="background-color: #e0e0e0;">Error(dB)</th> </tr> <tr> <td style="background-color: #e0e0e0;">Error (mV)</td> <td style="background-color: #e0e0e0;">MAX</td> <td style="background-color: #e0e0e0;">MIN</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;">LINEARITY ERROR (dB)</td> <td style="text-align: center;">0.14</td> <td style="text-align: center;">-0.23</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;">LOGGING ACCURACY (dB)</td> <td style="text-align: center;">0.60</td> <td style="text-align: center;">-0.12</td> <td></td> </tr> </table> | | | Measured Value (mV) | | Error(dB) | | Error (mV) | MAX | MIN | | LINEARITY ERROR (dB) | 0.14 | -0.23 | | LOGGING ACCURACY (dB) | 0.60 | -0.12 | |
| 1 GHz | INTERCEPT (mV) | 2348 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 49.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 377 | 630 | 874 | 1113 | 1354 | 1610 | 1844 | 2109 | 2354 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 6 | 4 | -3 | -9 | 1 | -12 | 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.01 | 0.13 | 0.08 | -0.07 | -0.18 | 0.02 | -0.23 | 0.14 | 0.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.54 | 0.60 | 0.49 | 0.26 | 0.08 | 0.20 | -0.12 | 0.18 | 0.08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.14 | -0.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.60 | -0.12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">2 GHz</td> <td style="background-color: #e0e0e0;">INTERCEPT (mV)</td> <td style="text-align: right;">2344</td> </tr> <tr> <td style="background-color: #e0e0e0;"></td> <td style="background-color: #e0e0e0;">SLOPE (mV/dB)</td> <td style="text-align: right;">49.2</td> </tr> </table> | | | 2 GHz | INTERCEPT (mV) | 2344 | | SLOPE (mV/dB) | 49.2 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="background-color: #e0e0e0;">-40</th> <th style="background-color: #e0e0e0;">-35</th> <th style="background-color: #e0e0e0;">-30</th> <th style="background-color: #e0e0e0;">-25</th> <th style="background-color: #e0e0e0;">-20</th> <th style="background-color: #e0e0e0;">-15</th> <th style="background-color: #e0e0e0;">-10</th> <th style="background-color: #e0e0e0;">-5</th> <th style="background-color: #e0e0e0;">0</th> <th colspan="2"></th> </tr> <tr> <td style="background-color: #e0e0e0;">376</td> <td style="background-color: #e0e0e0;">629</td> <td style="background-color: #e0e0e0;">873</td> <td style="background-color: #e0e0e0;">1111</td> <td style="background-color: #e0e0e0;">1352</td> <td style="background-color: #e0e0e0;">1607</td> <td style="background-color: #e0e0e0;">1842</td> <td style="background-color: #e0e0e0;">2105</td> <td style="background-color: #e0e0e0;">2350</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">-1</td> <td style="background-color: #e0e0e0;">6</td> <td style="background-color: #e0e0e0;">4</td> <td style="background-color: #e0e0e0;">-4</td> <td style="background-color: #e0e0e0;">-9</td> <td style="background-color: #e0e0e0;">0</td> <td style="background-color: #e0e0e0;">-10</td> <td style="background-color: #e0e0e0;">7</td> <td style="background-color: #e0e0e0;">6</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">-0.01</td> <td style="background-color: #e0e0e0;">0.13</td> <td style="background-color: #e0e0e0;">0.09</td> <td style="background-color: #e0e0e0;">-0.07</td> <td style="background-color: #e0e0e0;">-0.17</td> <td style="background-color: #e0e0e0;">0.01</td> <td style="background-color: #e0e0e0;">-0.21</td> <td style="background-color: #e0e0e0;">0.13</td> <td style="background-color: #e0e0e0;">0.11</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">0.52</td> <td style="background-color: #e0e0e0;">0.58</td> <td style="background-color: #e0e0e0;">0.46</td> <td style="background-color: #e0e0e0;">0.22</td> <td style="background-color: #e0e0e0;">0.04</td> <td style="background-color: #e0e0e0;">0.14</td> <td style="background-color: #e0e0e0;">-0.16</td> <td style="background-color: #e0e0e0;">0.10</td> <td style="background-color: #e0e0e0;">0.00</td> <td colspan="2"></td> </tr> </table> | | | | | | | | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | 376 | 629 | 873 | 1111 | 1352 | 1607 | 1842 | 2105 | 2350 | | | -1 | 6 | 4 | -4 | -9 | 0 | -10 | 7 | 6 | | | -0.01 | 0.13 | 0.09 | -0.07 | -0.17 | 0.01 | -0.21 | 0.13 | 0.11 | | | 0.52 | 0.58 | 0.46 | 0.22 | 0.04 | 0.14 | -0.16 | 0.10 | 0.00 | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">Measured Value (mV)</th> <th colspan="2" style="background-color: #e0e0e0;">Error(dB)</th> </tr> <tr> <td style="background-color: #e0e0e0;">Error (mV)</td> <td style="background-color: #e0e0e0;">MAX</td> <td style="background-color: #e0e0e0;">MIN</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;">LINEARITY ERROR (dB)</td> <td style="text-align: center;">0.13</td> <td style="text-align: center;">-0.21</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;">LOGGING ACCURACY (dB)</td> <td style="text-align: center;">0.58</td> <td style="text-align: center;">-0.16</td> <td></td> </tr> </table> | | | Measured Value (mV) | | Error(dB) | | Error (mV) | MAX | MIN | | LINEARITY ERROR (dB) | 0.13 | -0.21 | | LOGGING ACCURACY (dB) | 0.58 | -0.16 | |
| 2 GHz | INTERCEPT (mV) | 2344 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 49.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 376 | 629 | 873 | 1111 | 1352 | 1607 | 1842 | 2105 | 2350 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -1 | 6 | 4 | -4 | -9 | 0 | -10 | 7 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.01 | 0.13 | 0.09 | -0.07 | -0.17 | 0.01 | -0.21 | 0.13 | 0.11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.52 | 0.58 | 0.46 | 0.22 | 0.04 | 0.14 | -0.16 | 0.10 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.13 | -0.21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.58 | -0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">Flatness +/- dB</th> </tr> <tr> <td style="background-color: #e0e0e0;">Max Video Output Volts</td> <td style="text-align: center;">0.38</td> </tr> <tr> <td style="background-color: #e0e0e0;">Min Video Output Volts</td> <td style="text-align: center;">0.36</td> </tr> </table> | | | Flatness +/- dB | | Max Video Output Volts | 0.38 | Min Video Output Volts | 0.36 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="background-color: #e0e0e0;">-40</th> <th style="background-color: #e0e0e0;">-35</th> <th style="background-color: #e0e0e0;">-30</th> <th style="background-color: #e0e0e0;">-25</th> <th style="background-color: #e0e0e0;">-20</th> <th style="background-color: #e0e0e0;">-15</th> <th style="background-color: #e0e0e0;">-10</th> <th style="background-color: #e0e0e0;">-5</th> <th style="background-color: #e0e0e0;">0</th> <th colspan="2"></th> </tr> <tr> <td style="background-color: #e0e0e0;">0.20</td> <td style="background-color: #e0e0e0;">0.10</td> <td style="background-color: #e0e0e0;">0.20</td> <td style="background-color: #e0e0e0;">0.20</td> <td style="background-color: #e0e0e0;">0.20</td> <td style="background-color: #e0e0e0;">0.20</td> <td style="background-color: #e0e0e0;">0.20</td> <td style="background-color: #e0e0e0;">0.10</td> <td style="background-color: #e0e0e0;">0.10</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">0.38</td> <td style="background-color: #e0e0e0;">0.63</td> <td style="background-color: #e0e0e0;">0.87</td> <td style="background-color: #e0e0e0;">1.11</td> <td style="background-color: #e0e0e0;">1.35</td> <td style="background-color: #e0e0e0;">1.61</td> <td style="background-color: #e0e0e0;">1.84</td> <td style="background-color: #e0e0e0;">2.11</td> <td style="background-color: #e0e0e0;">2.35</td> <td colspan="2"></td> </tr> <tr> <td style="background-color: #e0e0e0;">0.36</td> <td style="background-color: #e0e0e0;">0.62</td> <td style="background-color: #e0e0e0;">0.86</td> <td style="background-color: #e0e0e0;">1.10</td> <td style="background-color: #e0e0e0;">1.34</td> <td style="background-color: #e0e0e0;">1.59</td> <td style="background-color: #e0e0e0;">1.83</td> <td style="background-color: #e0e0e0;">2.10</td> <td style="background-color: #e0e0e0;">2.34</td> <td colspan="2"></td> </tr> </table> | | | | | | | | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | 0.20 | 0.10 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | 0.10 | | | 0.38 | 0.63 | 0.87 | 1.11 | 1.35 | 1.61 | 1.84 | 2.11 | 2.35 | | | 0.36 | 0.62 | 0.86 | 1.10 | 1.34 | 1.59 | 1.83 | 2.10 | 2.34 | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">Logging Linearity vs Frequency</th> <th colspan="2" style="background-color: #e0e0e0;">Error(dB)</th> </tr> <tr> <td style="background-color: #e0e0e0;">TOTAL LOG LINEARITY (dB)</td> <td style="background-color: #e0e0e0;">MAX</td> <td style="background-color: #e0e0e0;">MIN</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;"></td> <td style="text-align: center;">0.19</td> <td style="text-align: center;">-0.29</td> <td></td> </tr> </table> | | | Logging Linearity vs Frequency | | Error(dB) | | TOTAL LOG LINEARITY (dB) | MAX | MIN | | | 0.19 | -0.29 | | | | | | | | | | | | | | | | |
| Flatness +/- dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max Video Output Volts | 0.38 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min Video Output Volts | 0.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.20 | 0.10 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | 0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.38 | 0.63 | 0.87 | 1.11 | 1.35 | 1.61 | 1.84 | 2.11 | 2.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.36 | 0.62 | 0.86 | 1.10 | 1.34 | 1.59 | 1.83 | 2.10 | 2.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Linearity vs Frequency | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOG LINEARITY (dB) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.19 | -0.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">Logging Accuracy vs Frequency</th> <th colspan="2" style="background-color: #e0e0e0;">Error(dB)</th> </tr> <tr> <td style="background-color: #e0e0e0;">TOTAL LOGGING ACCURACY (dB)</td> <td style="background-color: #e0e0e0;">MAX</td> <td style="background-color: #e0e0e0;">MIN</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;"></td> <td style="text-align: center;">0.60</td> <td style="text-align: center;">-0.46</td> <td></td> </tr> </table> | | | Logging Accuracy vs Frequency | | Error(dB) | | TOTAL LOGGING ACCURACY (dB) | MAX | MIN | | | 0.60 | -0.46 | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">Logging Linearity vs Frequency</th> <th colspan="2" style="background-color: #e0e0e0;">Error(dB)</th> </tr> <tr> <td style="background-color: #e0e0e0;">TOTAL LOG LINEARITY (dB)</td> <td style="background-color: #e0e0e0;">MAX</td> <td style="background-color: #e0e0e0;">MIN</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;"></td> <td style="text-align: center;">0.19</td> <td style="text-align: center;">-0.29</td> <td></td> </tr> </table> | | | | | | | | | | Logging Linearity vs Frequency | | Error(dB) | | TOTAL LOG LINEARITY (dB) | MAX | MIN | | | 0.19 | -0.29 | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="background-color: #e0e0e0;">Logging Accuracy vs Frequency</th> <th colspan="2" style="background-color: #e0e0e0;">Error(dB)</th> </tr> <tr> <td style="background-color: #e0e0e0;">TOTAL LOGGING ACCURACY (dB)</td> <td style="background-color: #e0e0e0;">MAX</td> <td style="background-color: #e0e0e0;">MIN</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;"></td> <td style="text-align: center;">0.60</td> <td style="text-align: center;">-0.46</td> <td></td> </tr> </table> | | | Logging Accuracy vs Frequency | | Error(dB) | | TOTAL LOGGING ACCURACY (dB) | MAX | MIN | | | 0.60 | -0.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Accuracy vs Frequency | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOGGING ACCURACY (dB) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.60 | -0.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Linearity vs Frequency | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOG LINEARITY (dB) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.19 | -0.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Accuracy vs Frequency | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOGGING ACCURACY (dB) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 0.60 | -0.46 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

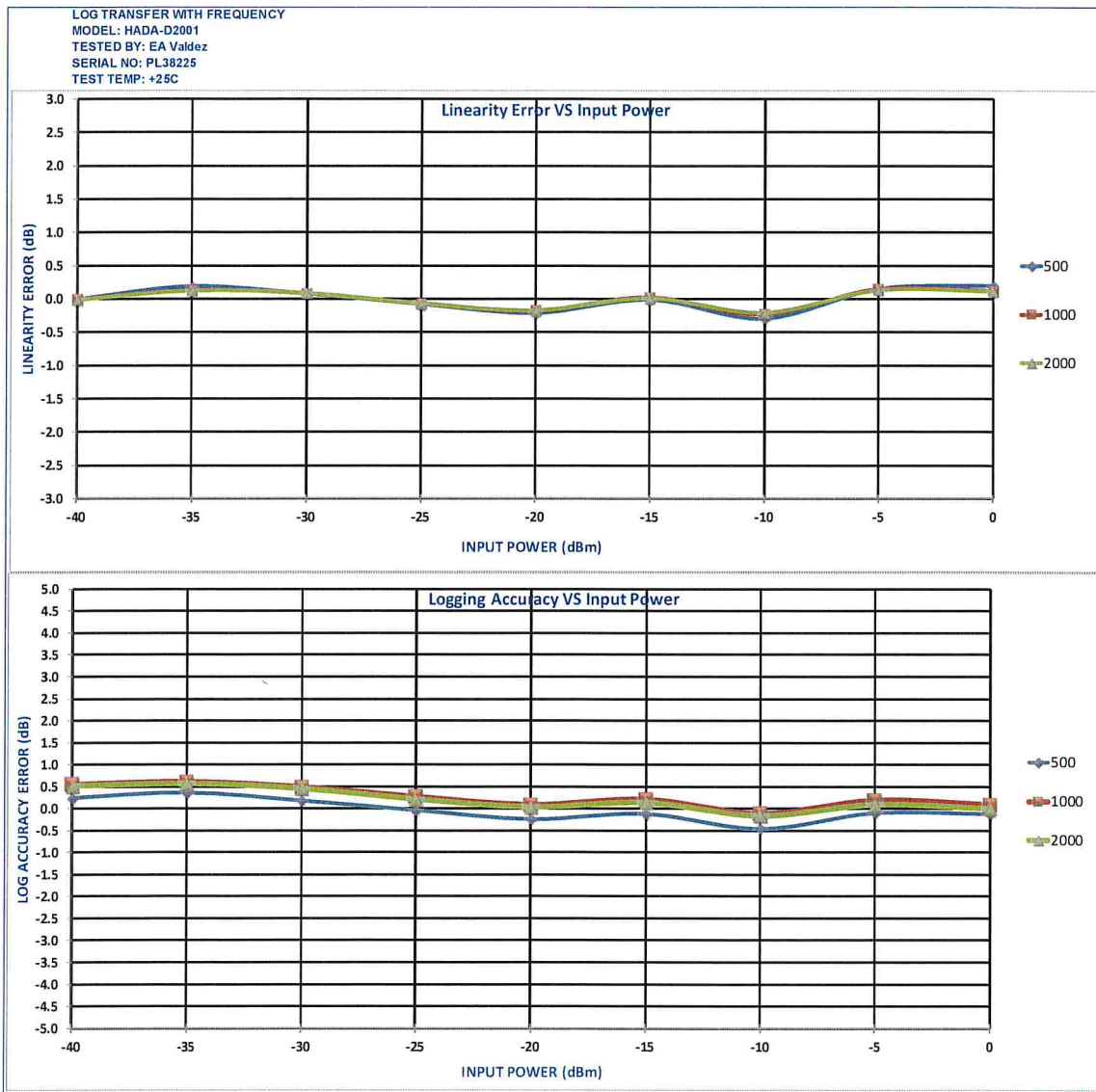
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
 Email: sales@pmi-rf.com



SUMMARY TEST DATA ON HADA-D2001

PL38225/2245

Log Linearity and Log Accuracy @ +25°C



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SUMMARY TEST DATA ON HADA-D2001

PL38225/2245

Log Linearity and Log Accuracy @ -40°C

| | | | | | | | | | | | | | | | | |
|---|----------------|------|---------------------------|-------|-------|-------|-------|-------|-------|-----------------------------|---|----------------------------|------------------|------------------|-------|--|
| <p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: EA Vaklez TEST DATE: 11/03/22 SERIAL NO: PL38225 TEST TEMP: -40C</p> | | | <p>DC Offset= 0.054 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 | | | | | |
| Frequency | | | | | | | | | | RF Input Power (dBm) | | | | | | |
| 0.5 GHz | INTERCEPT (mV) | 2305 | 342 | 598 | 847 | 1084 | 1319 | 1578 | 1817 | 2087 | 2296 | Measured Value (mV) | | Error(dB) | | |
| | SLOPE (mV/dB) | 48.9 | -8 | 3 | 8 | 1 | -9 | 6 | 1 | 7 | -9 | Error (mV) | MAX | MIN | | |
| | | | -0.17 | 0.07 | 0.16 | 0.01 | -0.18 | 0.13 | 0.02 | 0.13 | -0.18 | LINEARITY ERROR (dB) | | 0.16 | -0.18 | |
| | | | -0.16 | -0.04 | -0.06 | -0.32 | -0.62 | -0.44 | -0.66 | -0.66 | -1.08 | LOGGING ACCURACY (dB) | | -0.04 | -1.08 | |
| 1 GHz | INTERCEPT (mV) | 2319 | 360 | 613 | 864 | 1100 | 1339 | 1596 | 1837 | 2081 | 2304 | Measured Value (mV) | | Error(dB) | | |
| | SLOPE (mV/dB) | 48.7 | -9 | 0 | 8 | 0 | -5 | 9 | 6 | 6 | -15 | Error (mV) | MAX | MIN | | |
| | | | -0.18 | 0.01 | 0.16 | 0.00 | -0.10 | 0.17 | 0.12 | 0.13 | -0.30 | LINEARITY ERROR (dB) | | 0.17 | -0.30 | |
| | | | 0.20 | 0.26 | 0.28 | 0.00 | -0.22 | -0.08 | -0.26 | -0.38 | -0.92 | LOGGING ACCURACY (dB) | | 0.28 | -0.92 | |
| 2 GHz | INTERCEPT (mV) | 2316 | 360 | 613 | 864 | 1099 | 1338 | 1594 | 1836 | 2078 | 2301 | Measured Value (mV) | | Error(dB) | | |
| | SLOPE (mV/dB) | 48.7 | -9 | 0 | 8 | 0 | -5 | 8 | 7 | 6 | -15 | Error (mV) | MAX | MIN | | |
| | | | -0.19 | 0.01 | 0.17 | -0.01 | -0.09 | 0.17 | 0.14 | 0.11 | -0.30 | LINEARITY ERROR (dB) | | 0.17 | -0.30 | |
| | | | 0.20 | 0.26 | 0.28 | -0.02 | -0.24 | -0.12 | -0.28 | -0.44 | -0.98 | LOGGING ACCURACY (dB) | | 0.28 | -0.98 | |
| Flatness +/- dB | | | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.10 | 0.10 | | | | | | |
| Max Video Output Volts | | | 0.36 | 0.61 | 0.86 | 1.10 | 1.34 | 1.60 | 1.84 | 2.08 | 2.30 | | | | | |
| Min Video Output Volts | | | 0.34 | 0.60 | 0.85 | 1.06 | 1.32 | 1.56 | 1.82 | 2.07 | 2.30 | | | | | |
| | | | | | | | | | | | Logging Linearity vs Frequency | | Error(dB) | | | |
| | | | | | | | | | | | TOTAL LOG LINEARITY (dB) | | MAX | MIN | | |
| | | | | | | | | | | | TOTAL LOG LINEARITY (dB) | | 0.17 | -0.30 | | |
| | | | | | | | | | | | Logging Accuracy vs Frequency | | Error(dB) | | | |
| | | | | | | | | | | | TOTAL LOGGING ACCURACY (dB) | | MAX | MIN | | |
| | | | | | | | | | | | TOTAL LOGGING ACCURACY (dB) | | 0.28 | -1.08 | | |

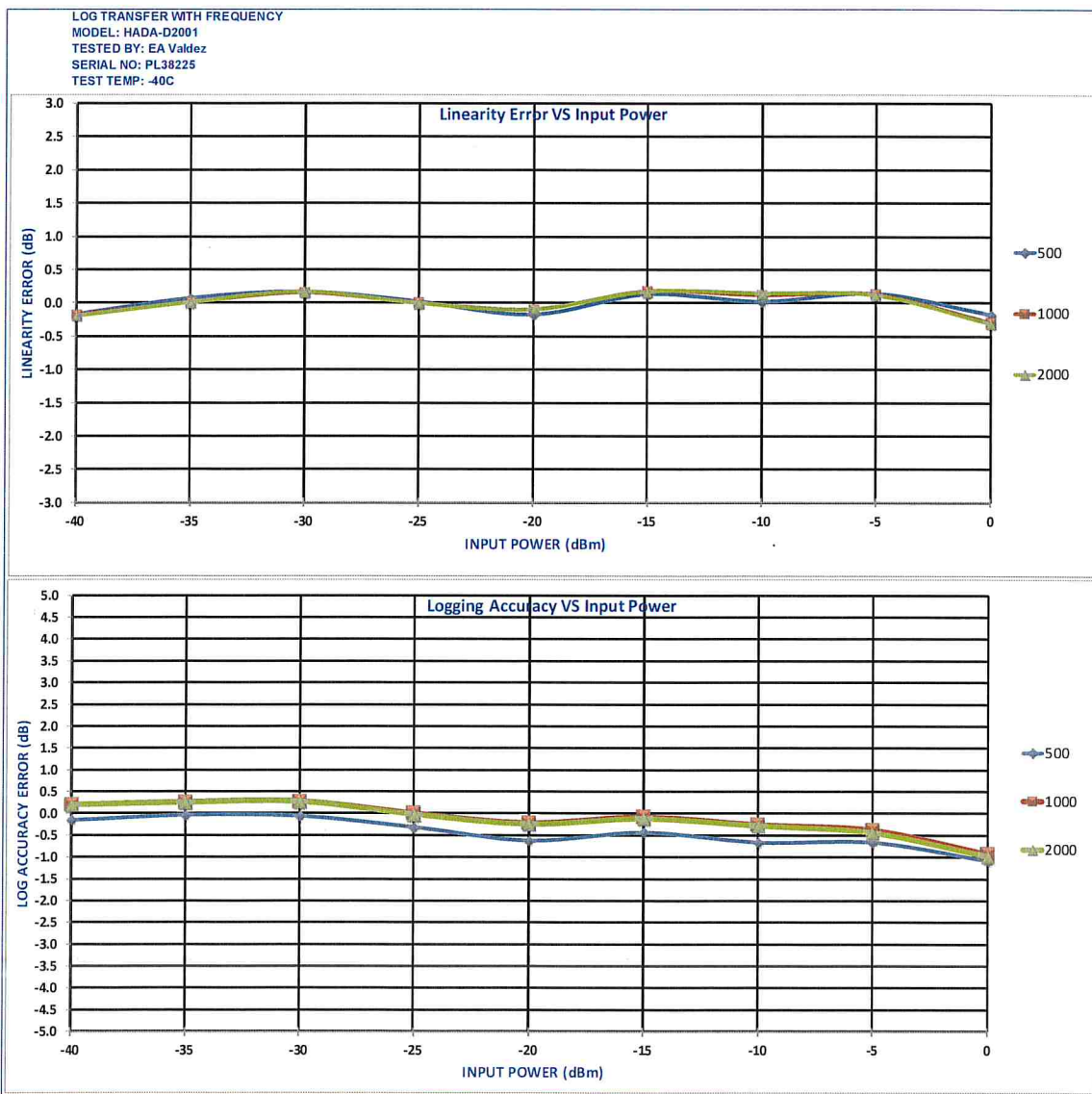
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
 Email: sales@pmi-rf.com



SUMMARY TEST DATA ON HADA-D2001

PL38225/2245

Log Linearity and Log Accuracy @ -40°C



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SUMMARY TEST DATA ON HADA-D2001

PL38225/2245

Log Linearity and Log Accuracy @ +85°C

| LOG TRANSFER WITH FREQUENCY | | | DC Offset= 0.106 V | | | | | | | | | | RF Input Power (dBm) | | | |
|---|----------------|------|--------------------|------|------|-------|-------|-------|-------|------|------|--------------------------------|---|-----------|-----------|--|
| MODEL: HADA-D2001 TESTED BY: EA Vaklez TEST DATE: 11/04/22 SERIAL NO: PL38225 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) | 2293 | | | | | | | | | | | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 49.3 | 325 | 582 | 815 | 1054 | 1296 | 1545 | 1773 | 2049 | 2319 | Error (mV) | | MAX | MIN | |
| | | | 4 | 15 | 1 | -6 | -11 | -9 | -22 | 2 | 26 | LINEARITY ERROR (dB) | | 0.52 | -0.45 | |
| | | | 0.09 | 0.30 | 0.02 | -0.13 | -0.22 | -0.17 | -0.45 | 0.05 | 0.52 | LOGGING ACCURACY (dB) | | -0.36 | -1.44 | |
| 1 GHz | INTERCEPT (mV) | 2310 | | | | | | | | | | | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 49.3 | 340 | 597 | 832 | 1070 | 1314 | 1564 | 1796 | 2068 | 2330 | Error (mV) | | MAX | MIN | |
| | | | 3 | 13 | 2 | -7 | -9 | -6 | -21 | 5 | 20 | LINEARITY ERROR (dB) | | 0.41 | -0.42 | |
| | | | 0.06 | 0.27 | 0.03 | -0.14 | -0.19 | -0.12 | -0.42 | 0.10 | 0.41 | LOGGING ACCURACY (dB) | | -0.06 | -1.08 | |
| 2 GHz | INTERCEPT (mV) | 2308 | | | | | | | | | | | Measured Value (mV) | | Error(dB) | |
| | SLOPE (mV/dB) | 49.3 | 341 | 597 | 832 | 1069 | 1313 | 1562 | 1795 | 2065 | 2329 | Error (mV) | | MAX | MIN | |
| | | | 3 | 13 | 2 | -7 | -10 | -7 | -20 | 4 | 21 | LINEARITY ERROR (dB) | | 0.44 | -0.41 | |
| | | | 0.07 | 0.27 | 0.04 | -0.15 | -0.19 | -0.14 | -0.41 | 0.08 | 0.44 | LOGGING ACCURACY (dB) | | -0.06 | -1.10 | |
| Flatness +/- dB | | | 0.29 | 0.20 | 0.20 | 0.29 | 0.20 | 0.20 | 0.20 | 0.20 | 0.19 | | | | | |
| Max Video Output Volts | | | 0.34 | 0.60 | 0.83 | 1.07 | 1.31 | 1.56 | 1.80 | 2.07 | 2.33 | | | | | |
| Min Video Output Volts | | | 0.33 | 0.58 | 0.82 | 1.05 | 1.30 | 1.55 | 1.78 | 2.05 | 2.32 | | | | | |
| | | | | | | | | | | | | Logging Linearity vs Frequency | | Error(dB) | | |
| | | | | | | | | | | | | TOTAL LOG LINEARITY (dB) | | 0.52 | -0.45 | |
| | | | | | | | | | | | | Logging Accuracy vs Frequency | | Error(dB) | | |
| | | | | | | | | | | | | TOTAL LOGGING ACCURACY (dB) | | -0.06 | -1.44 | |

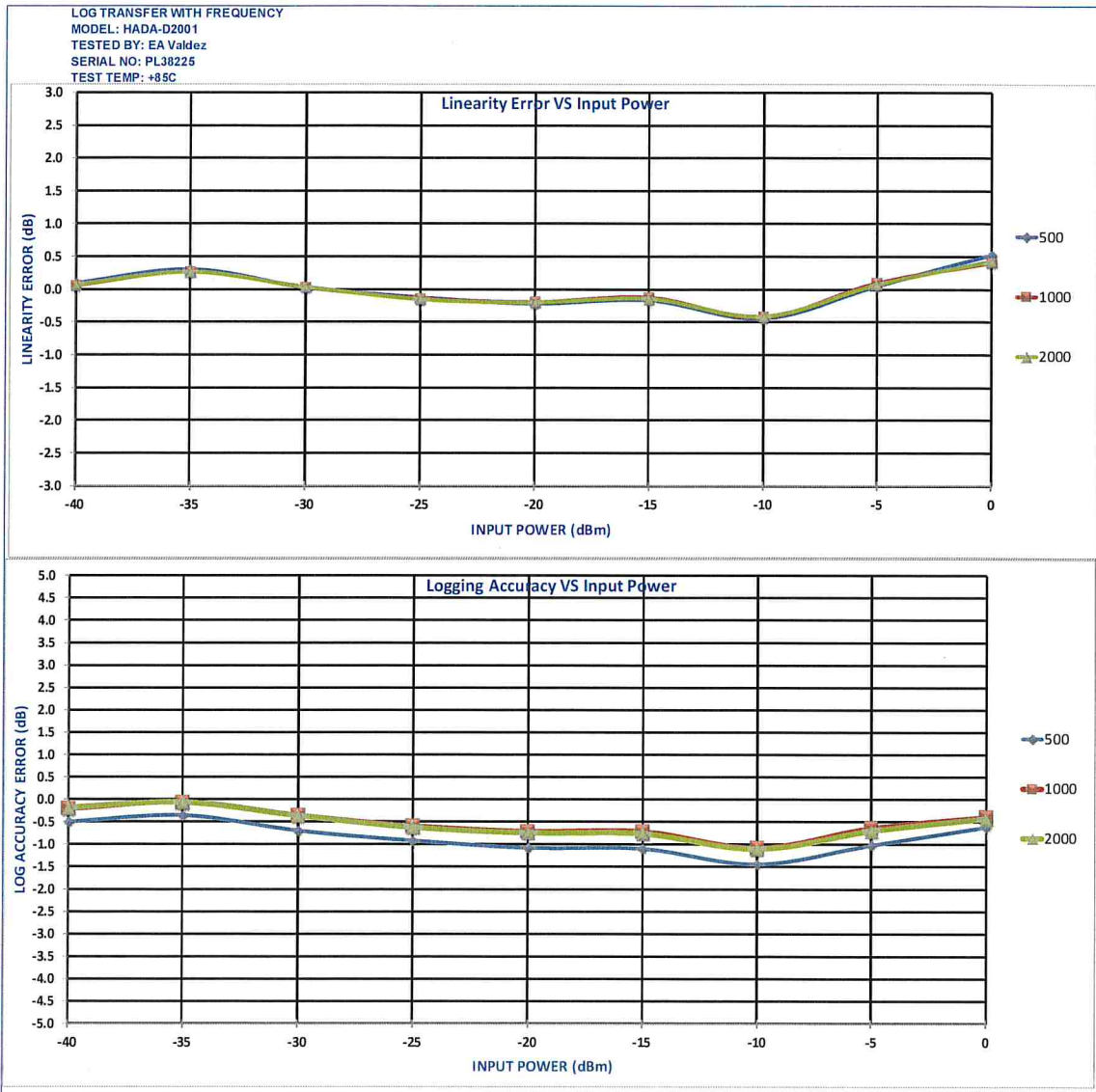
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SUMMARY TEST DATA ON HADA-D2001

PL38225/2245

Log Linearity and Log Accuracy @ +85°C



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**SUMMARY TEST DATA
ON
HADA-D2001**

PL38225/2245

TSS -45 dBm



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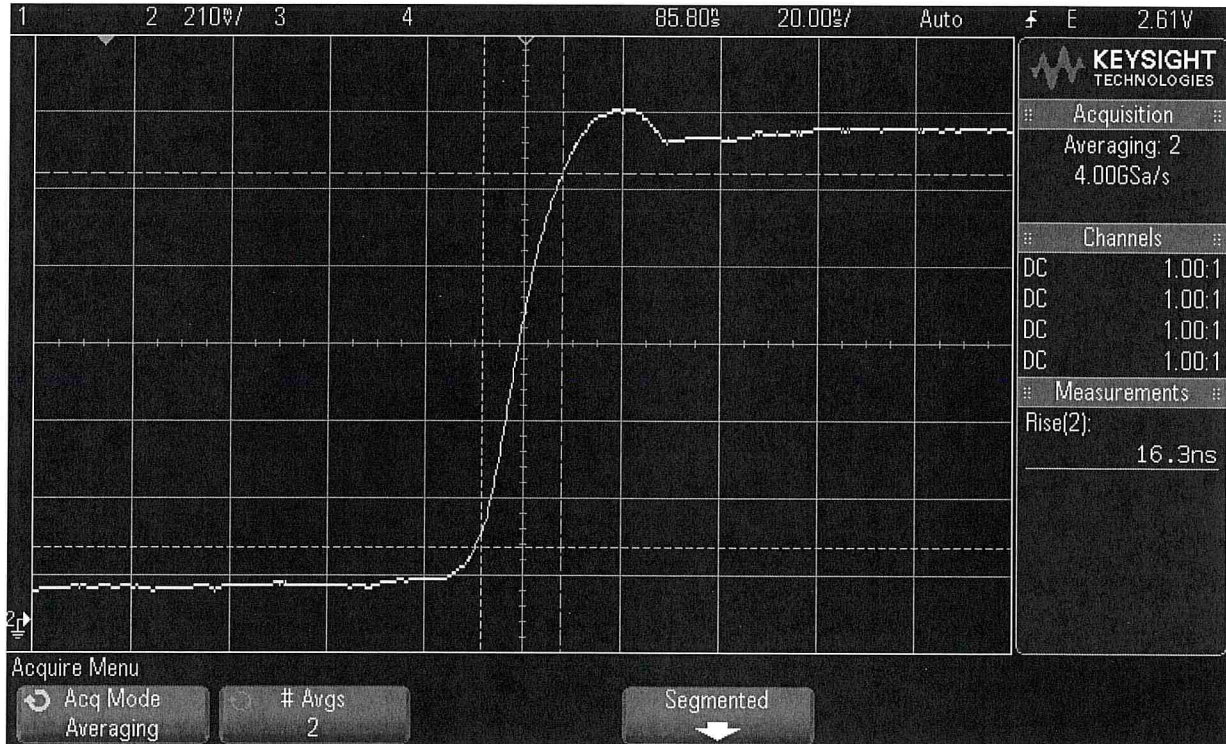


**SUMMARY TEST DATA
ON
HADA-D2001**

PL38225/2245

Rise Time 16.3 nS

DSO-X 3024A, MY54490369: Tue Nov 08 18:26:12 2022



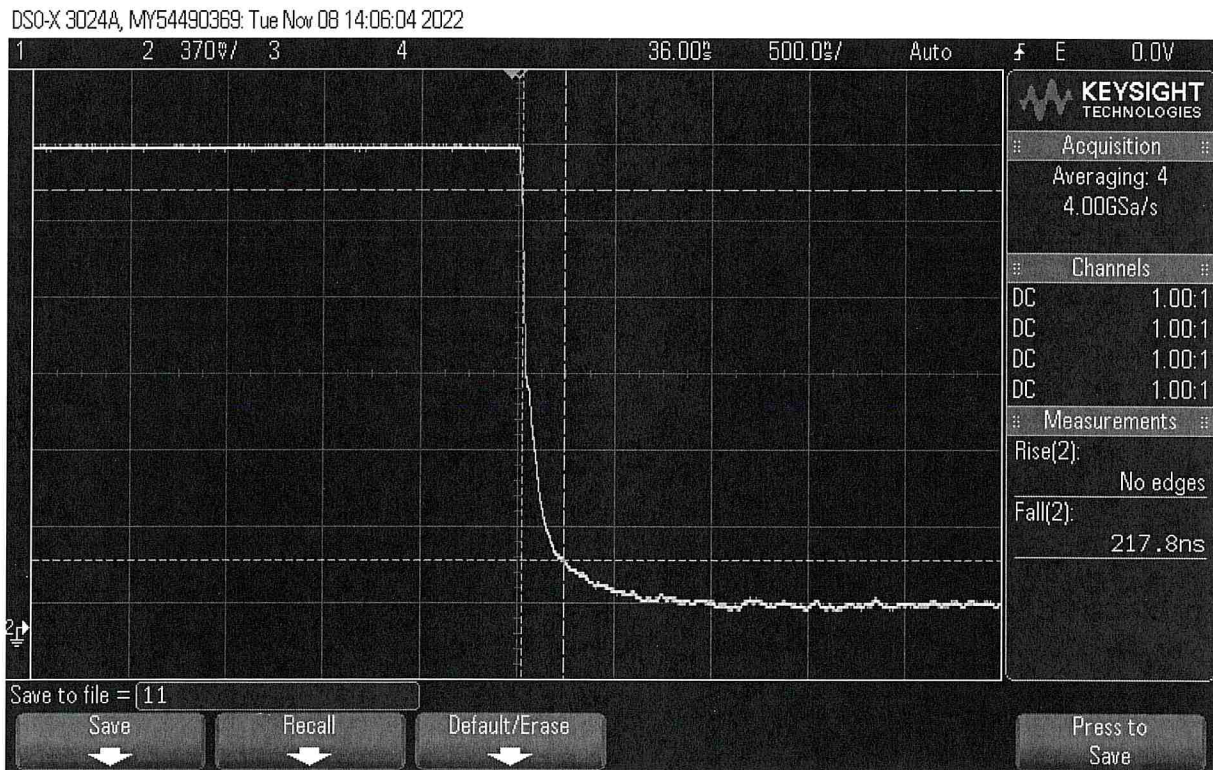
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**SUMMARY TEST DATA
ON
HADA-D2001**

PL38225/2245

Fall Time 217.8 nS



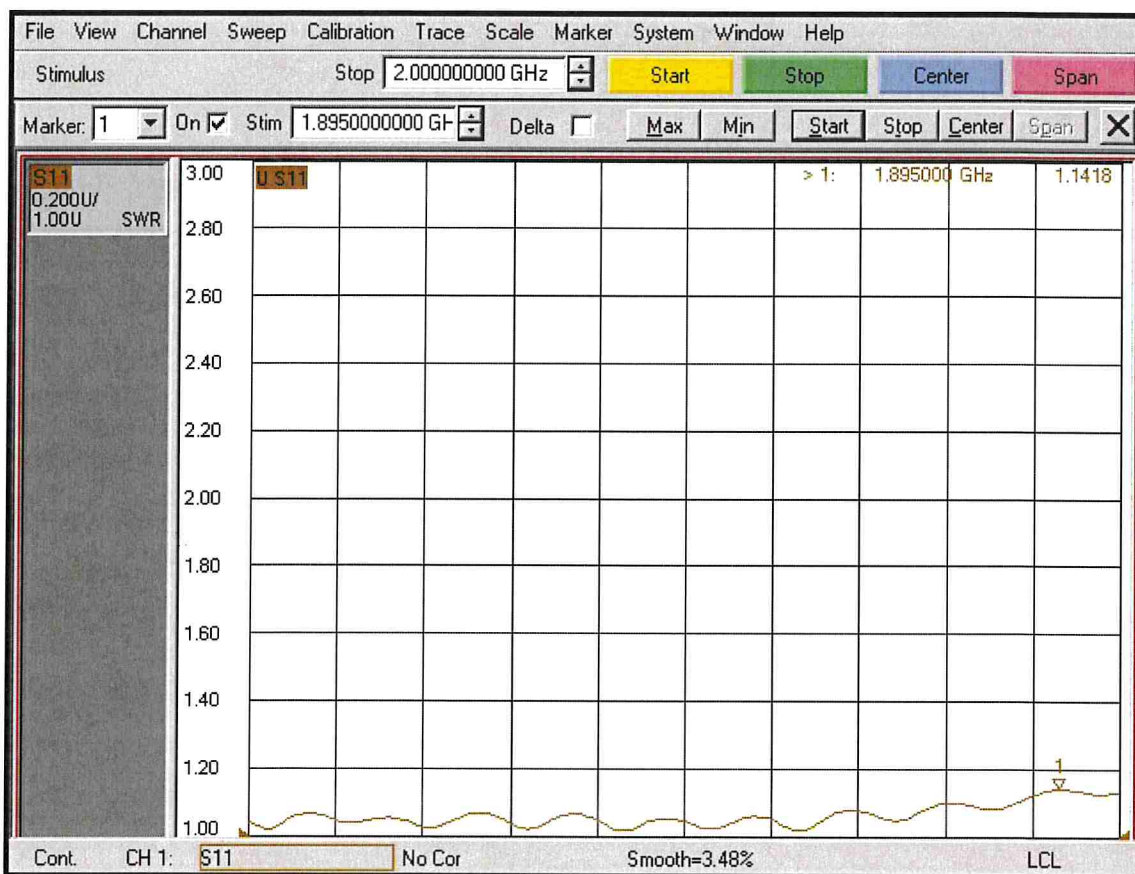
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**SUMMARY TEST DATA
ON
HADA-D2001**

PL38225/2245

VSWR 1.14:1



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