



**SUMMARY TEST DATA
ON
HADA-D2001**

PL25745/1924

| | |
|--------------------------------|--|
| Customer: _____ | Tested By: <u>J.Emperador</u> |
| SO No: _____ | Temperature: <u>+25°C</u> |
| Model No: <u>HADA-D2001</u> | Date: <u>06/11/19</u> |
| Serial No: <u>PL25745/1924</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 QA1 |
| 2 | TSS: | -44 dBm Min @ -40°C to +85° | -46.8 dBm See Plot | PMI QA1 |
| 3 | Frequency Flatness: | ±0.75 dB Max | ±0.40 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) | 0.58 dB -1.70 dB See Plot | |
| 6 | Log Linearity: | ±0.5 dB Max @ +25°C ±0.75 dB Max @ -40°C to +85°C | 0.36 dB 0.44 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%) | 19.4 ns See Plot | |
| 10 | Fall Time: | 500 ns Max (@ Pulse width 100usec input) (90% to 10%) | 145 ns See Plot | |
| 11 | DC Offset: (Input 50 Ω terminated): | +95 mV +55/-100 mV (@ -40°C to +85°C) | 100 mV 106 mV | |
| 12 | Input VSWR: | 2.5:1 Max @ +23 dBm | 1.23:1 See Plot | |

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Email: sales@pmi-rf.com



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| | | | | |
|----|--------------------|---|------------------------------|-------------|
| 13 | Propagation Delay: | 60 ns Max | 41 ns See Plot | PMI QA 1 |
| 14 | Power Supply: | +12 ± 1VDC @ 125 mA Max -12 ± 1VDC @ 75 mA Max | 85 mA 42 mA | |
| 15 | Warm Up Time: | 2 Minutes Max | 2 Minutes | PMI QA 1 |

*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:  PMI QA 1 Date: 6/18/19



SUMMARY TEST DATA ON HADA-D2001

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| <p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: J.Emperador TEST DATE: 06/10/19 SERIAL NO: PL25745 TEST TEMP: +25C</p> | | | <p>Graph #1</p> <p>DC Offset= 0.100 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>Frequency</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f2f2f2;">0.5 GHz</td> <td>INTERCEPT (mV)</td> <td>2335</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>50</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #f2f2f2;">1 GHz</td> <td>INTERCEPT (mV)</td> <td>2361</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>50</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #d9ead3;">2 GHz</td> <td>INTERCEPT (mV)</td> <td>2358</td> </tr> <tr> <td></td> <td>SLOPE (mV/dB)</td> <td>50.5</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Flatness +/- dB</td> <td></td> </tr> <tr> <td>Max Video Output Volts</td> <td></td> </tr> <tr> <td>Min Video Output Volts</td> <td></td> </tr> </table> | 0.5 GHz | INTERCEPT (mV) | 2335 | | SLOPE (mV/dB) | 50 | 1 GHz | INTERCEPT (mV) | 2361 | | SLOPE (mV/dB) | 50 | 2 GHz | INTERCEPT (mV) | 2358 | | SLOPE (mV/dB) | 50.5 | Flatness +/- dB | | Max Video Output Volts | | Min Video Output Volts | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>-40</th> <th>-35</th> <th>-30</th> <th>-25</th> <th>-20</th> <th>-15</th> <th>-10</th> <th>-5</th> <th>0</th> </tr> <tr> <td style="background-color: #d9ead3;">337</td> <td>586</td> <td>831</td> <td>1073</td> <td>1337</td> <td>1601</td> <td>1827</td> <td>2085</td> <td>2335</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">3</td> <td>2</td> <td>-3</td> <td>-12</td> <td>2</td> <td>16</td> <td>-6</td> <td>0</td> <td>0</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">0.06</td> <td>0.04</td> <td>-0.07</td> <td>-0.23</td> <td>0.05</td> <td>0.32</td> <td>-0.16</td> <td>0.00</td> <td>-0.01</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">-0.26</td> <td>-0.28</td> <td>-0.38</td> <td>-0.54</td> <td>-0.26</td> <td>0.02</td> <td>-0.46</td> <td>-0.30</td> <td>-0.30</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">363</td> <td>611</td> <td>860</td> <td>1100</td> <td>1366</td> <td>1629</td> <td>1855</td> <td>2114</td> <td>2354</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">1</td> <td>-1</td> <td>-2</td> <td>-11</td> <td>5</td> <td>18</td> <td>-6</td> <td>3</td> <td>-7</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">0.02</td> <td>-0.01</td> <td>-0.03</td> <td>-0.23</td> <td>0.09</td> <td>0.36</td> <td>-0.12</td> <td>0.06</td> <td>-0.14</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">0.26</td> <td>0.22</td> <td>0.20</td> <td>0.00</td> <td>0.32</td> <td>0.58</td> <td>0.10</td> <td>0.28</td> <td>0.08</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">346</td> <td>595</td> <td>840</td> <td>1082</td> <td>1347</td> <td>1613</td> <td>1840</td> <td>2116</td> <td>2358</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">7</td> <td>4</td> <td>-4</td> <td>-14</td> <td>-2</td> <td>12</td> <td>-3</td> <td>10</td> <td>0</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">0.14</td> <td>0.07</td> <td>-0.08</td> <td>-0.28</td> <td>-0.03</td> <td>0.24</td> <td>-0.26</td> <td>0.20</td> <td>0.00</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">-0.08</td> <td>-0.10</td> <td>-0.20</td> <td>-0.36</td> <td>-0.09</td> <td>0.28</td> <td>-0.20</td> <td>0.32</td> <td>0.16</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">0.30</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> <td>0.30</td> <td>0.20</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">0.36</td> <td>0.61</td> <td>0.86</td> <td>1.10</td> <td>1.37</td> <td>1.63</td> <td>1.86</td> <td>2.12</td> <td>2.36</td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">0.34</td> <td>0.59</td> <td>0.83</td> <td>1.07</td> <td>1.34</td> <td>1.60</td> <td>1.83</td> <td>2.09</td> <td>2.34</td> <td></td> </tr> </table> | | | | | | | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 337 | 586 | 831 | 1073 | 1337 | 1601 | 1827 | 2085 | 2335 | | 3 | 2 | -3 | -12 | 2 | 16 | -6 | 0 | 0 | | 0.06 | 0.04 | -0.07 | -0.23 | 0.05 | 0.32 | -0.16 | 0.00 | -0.01 | | -0.26 | -0.28 | -0.38 | -0.54 | -0.26 | 0.02 | -0.46 | -0.30 | -0.30 | | 363 | 611 | 860 | 1100 | 1366 | 1629 | 1855 | 2114 | 2354 | | 1 | -1 | -2 | -11 | 5 | 18 | -6 | 3 | -7 | | 0.02 | -0.01 | -0.03 | -0.23 | 0.09 | 0.36 | -0.12 | 0.06 | -0.14 | | 0.26 | 0.22 | 0.20 | 0.00 | 0.32 | 0.58 | 0.10 | 0.28 | 0.08 | | 346 | 595 | 840 | 1082 | 1347 | 1613 | 1840 | 2116 | 2358 | | 7 | 4 | -4 | -14 | -2 | 12 | -3 | 10 | 0 | | 0.14 | 0.07 | -0.08 | -0.28 | -0.03 | 0.24 | -0.26 | 0.20 | 0.00 | | -0.08 | -0.10 | -0.20 | -0.36 | -0.09 | 0.28 | -0.20 | 0.32 | 0.16 | | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.20 | | 0.36 | 0.61 | 0.86 | 1.10 | 1.37 | 1.63 | 1.86 | 2.12 | 2.36 | | 0.34 | 0.59 | 0.83 | 1.07 | 1.34 | 1.60 | 1.83 | 2.09 | 2.34 | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="background-color: #d9ead3;">RF Input Power (dBm)</th> </tr> <tr> <td style="background-color: #d9ead3;">Measured Value (mV)</td> <td colspan="2" style="background-color: #d9ead3;">Error(dB)</td> </tr> <tr> <td style="background-color: #d9ead3;">Error (mV)</td> <td style="background-color: #d9ead3;">MAX</td> <td style="background-color: #d9ead3;">MIN</td> </tr> <tr> <td style="background-color: #d9ead3;">LINEARITY ERROR (dB)</td> <td>0.32</td> <td>-0.23</td> </tr> <tr> <td style="background-color: #d9ead3;">LOGGING ACCURACY (dB)</td> <td>0.02</td> <td>-0.54</td> </tr> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="3" style="background-color: #d9ead3;">Measured Value (mV)</th> <th colspan="2" style="background-color: #d9ead3;">Error(dB)</th> </tr> <tr> <td style="background-color: #d9ead3;">Error (mV)</td> <td style="background-color: #d9ead3;">MAX</td> <td style="background-color: #d9ead3;">MIN</td> <td style="background-color: #d9ead3;">MAX</td> <td style="background-color: #d9ead3;">MIN</td> </tr> <tr> <td style="background-color: #d9ead3;">LINEARITY ERROR (dB)</td> <td>0.36</td> <td>-0.23</td> <td></td> <td></td> </tr> <tr> <td style="background-color: #d9ead3;">LOGGING ACCURACY (dB)</td> <td>0.58</td> <td>0.00</td> <td></td> <td></td> </tr> </table> <table border="1" style="width: 100%; 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| 0.5 GHz | INTERCEPT (mV) | 2335 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 GHz | INTERCEPT (mV) | 2361 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 GHz | INTERCEPT (mV) | 2358 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 50.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flatness +/- dB | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max Video Output Volts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min Video Output Volts | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 337 | 586 | 831 | 1073 | 1337 | 1601 | 1827 | 2085 | 2335 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | -3 | -12 | 2 | 16 | -6 | 0 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.06 | 0.04 | -0.07 | -0.23 | 0.05 | 0.32 | -0.16 | 0.00 | -0.01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.26 | -0.28 | -0.38 | -0.54 | -0.26 | 0.02 | -0.46 | -0.30 | -0.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 363 | 611 | 860 | 1100 | 1366 | 1629 | 1855 | 2114 | 2354 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | -1 | -2 | -11 | 5 | 18 | -6 | 3 | -7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.02 | -0.01 | -0.03 | -0.23 | 0.09 | 0.36 | -0.12 | 0.06 | -0.14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.26 | 0.22 | 0.20 | 0.00 | 0.32 | 0.58 | 0.10 | 0.28 | 0.08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 346 | 595 | 840 | 1082 | 1347 | 1613 | 1840 | 2116 | 2358 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 4 | -4 | -14 | -2 | 12 | -3 | 10 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14 | 0.07 | -0.08 | -0.28 | -0.03 | 0.24 | -0.26 | 0.20 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.08 | -0.10 | -0.20 | -0.36 | -0.09 | 0.28 | -0.20 | 0.32 | 0.16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.36 | 0.61 | 0.86 | 1.10 | 1.37 | 1.63 | 1.86 | 2.12 | 2.36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.34 | 0.59 | 0.83 | 1.07 | 1.34 | 1.60 | 1.83 | 2.09 | 2.34 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| RF Input Power (dBm) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.32 | -0.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.02 | -0.54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Measured Value (mV) | | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Error (mV) | MAX | MIN | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LINEARITY ERROR (dB) | 0.36 | -0.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LOGGING ACCURACY (dB) | 0.58 | 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Linearity vs Frequency | | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOG LINEARITY (dB) | MAX | MIN | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOG LINEARITY (dB) | 0.36 | -0.28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Logging Accuracy vs Frequency | | | Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOGGING ACCURACY (dB) | MAX | MIN | MAX | MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL LOGGING ACCURACY (dB) | 0.58 | -0.54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

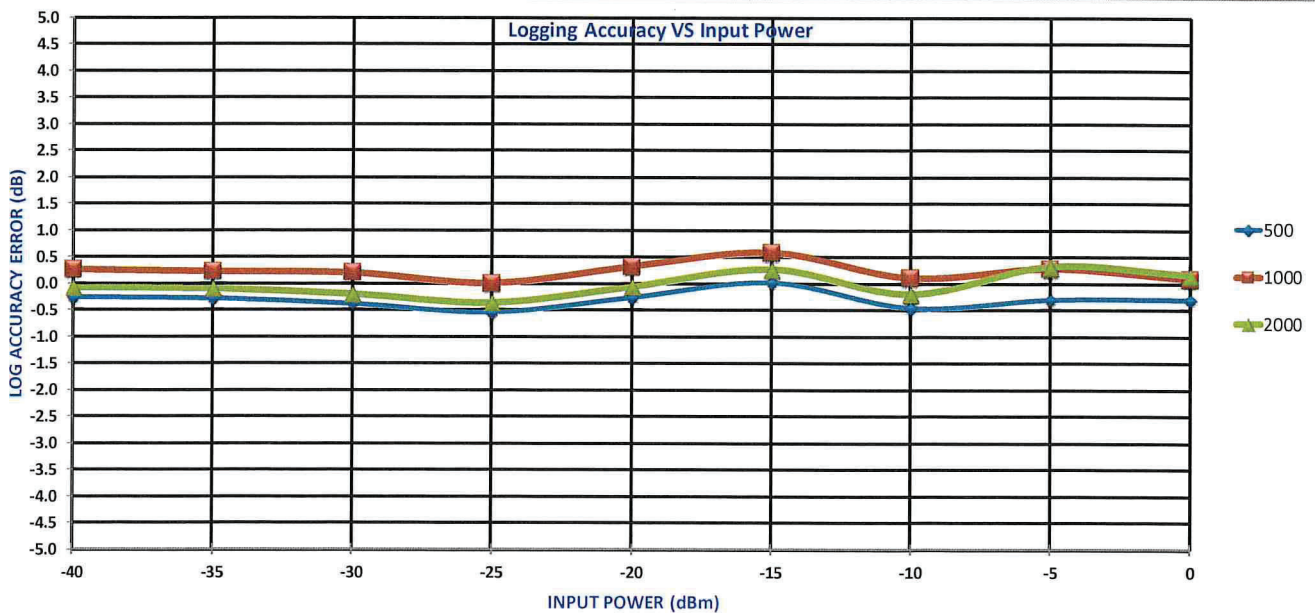
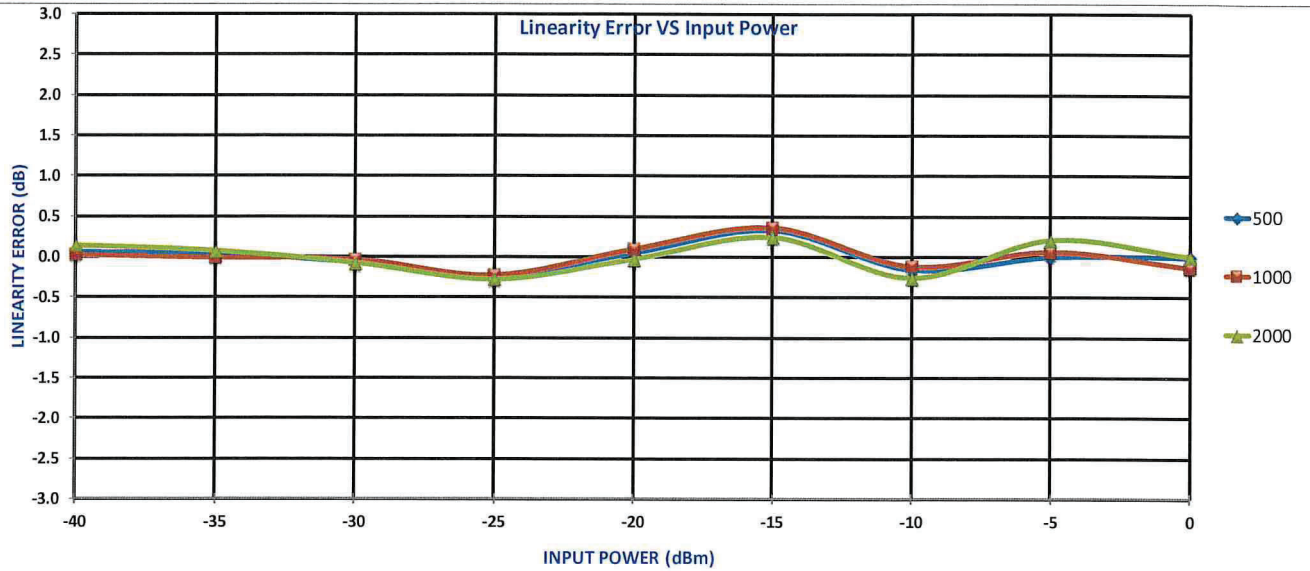
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
 Email: sales@pmi-rf.com



SUMMARY TEST DATA ON HADA-D2001

PL25745/1924

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: J.Emperador
SERIAL NO: PL25745
TEST TEMP: +25C




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Email: sales@pmi-rf.com



**SUMMARY TEST DATA
ON
HADA-D2001**

PL25745/1924

| | | | | | | | | | | | | | | | |
|--|----------------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: J.Emperador TEST DATE: 06/10/19 SERIAL NO: PL25745 TEST TEMP: -40C</p> | | | <p>Graph #2</p> <p>DC Offset= 0.106 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>Frequency</p> | | | | | | | | | | | | | <p>RF Input Power (dBm)</p> | | |
| 0.5 GHz | INTERCEPT (mV) | 2276 | | | | | | | | | | | <p>Measured Value (mV) Error(dB)</p> | | |
| | SLOPE (mV/dB) | 48.4 | | | | | | | | | | | <p>Error (mV) MAX MIN</p> | | |
| | | | | | | | | | | | | | <p>LINEARITY ERROR (dB) 0.42 -0.32</p> | | |
| | | | | | | | | | | | | | <p>LOGGING ACCURACY (dB) 0.04 -1.70</p> | | |
| 1 GHz | INTERCEPT (mV) | 2299 | | | | | | | | | | | <p>Measured Value (mV) Error(dB)</p> | | |
| | SLOPE (mV/dB) | 48.3 | | | | | | | | | | | <p>Error (mV) MAX MIN</p> | | |
| | | | | | | | | | | | | | <p>LINEARITY ERROR (dB) 0.44 -0.36</p> | | |
| | | | | | | | | | | | | | <p>LOGGING ACCURACY (dB) 0.56 -1.36</p> | | |
| 2 GHz | INTERCEPT (mV) | 2298 | | | | | | | | | | | <p>Measured Value (mV) Error(dB)</p> | | |
| | SLOPE (mV/dB) | 48.8 | | | | | | | | | | | <p>Error (mV) MAX MIN</p> | | |
| | | | | | | | | | | | | | <p>LINEARITY ERROR (dB) 0.34 -0.36</p> | | |
| | | | | | | | | | | | | | <p>LOGGING ACCURACY (dB) 0.26 -1.24</p> | | |
| <p>Flatness +/- dB</p> | | | | | | | | | | | | | <p>Logging Linearity vs Frequency Error(dB)</p> | | |
| <p>Max Video Output Volts</p> | | | | | | | | | | | | | <p>MAX MIN</p> | | |
| <p>Min Video Output Volts</p> | | | | | | | | | | | | | <p>TOTAL LOG LINEARITY (dB) 0.44 -0.36</p> | | |
| | | | | | | | | | | | | | <p>Logging Accuracy vs Frequency Error(dB)</p> | | |
| | | | | | | | | | | | | | <p>MAX MIN</p> | | |
| | | | | | | | | | | | | | <p>TOTAL LOGGING ACCURACY (dB) 0.56 -1.70</p> | | |

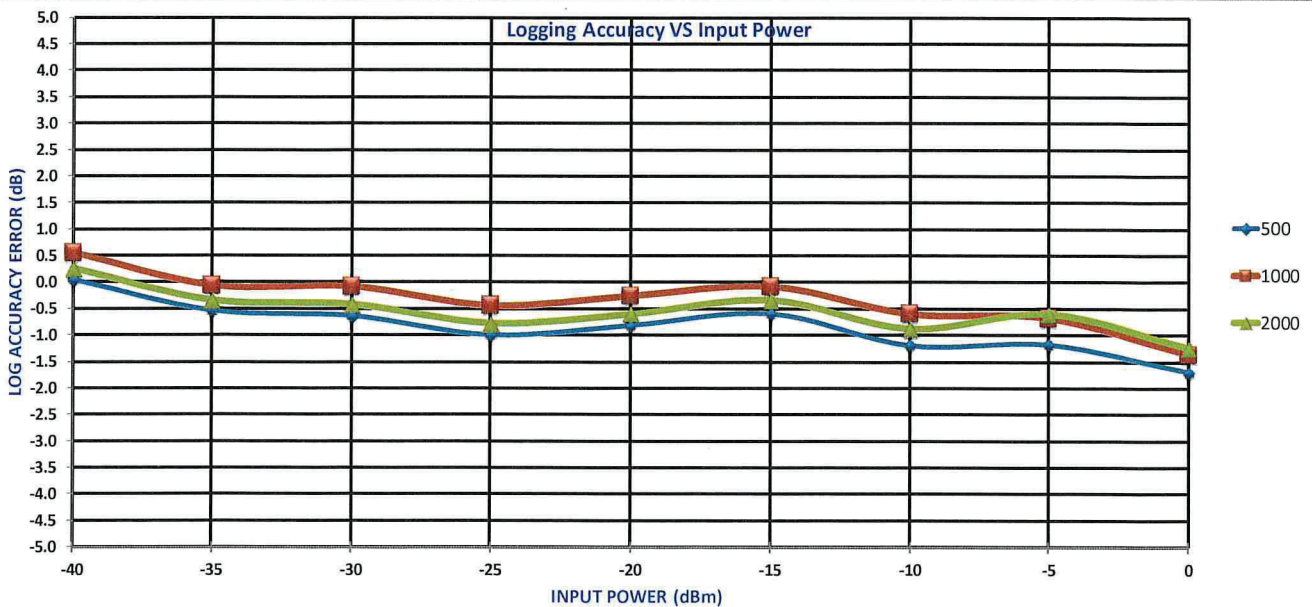
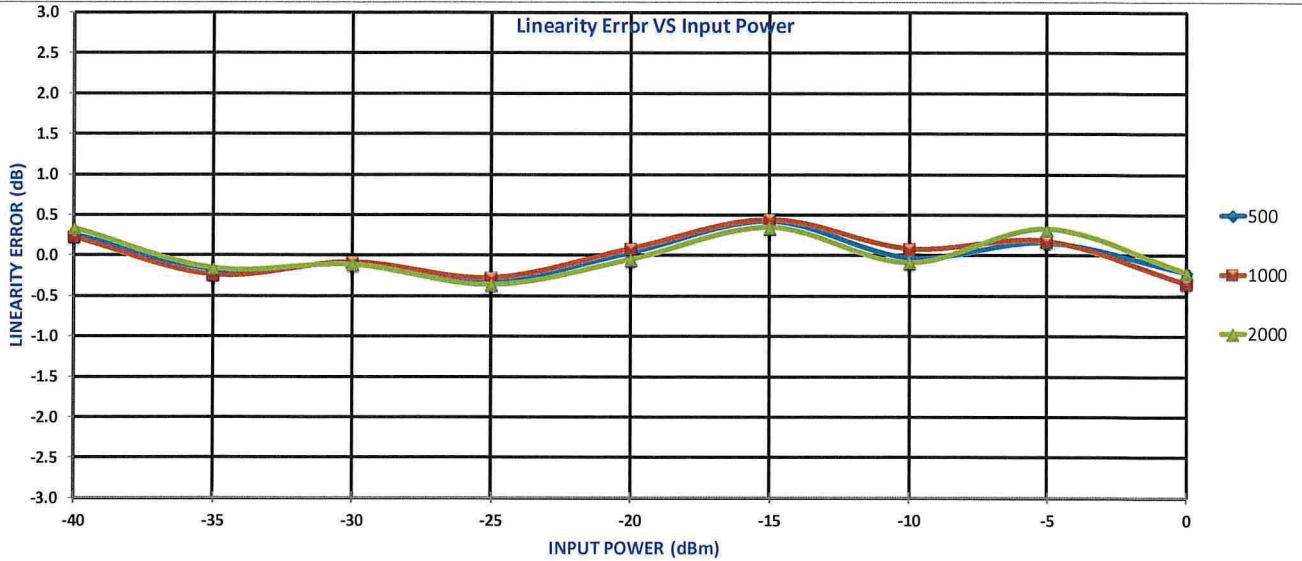
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
Email: sales@pmi-rf.com



SUMMARY TEST DATA ON HADA-D2001

PL25745/1924

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: J.Emperador
SERIAL NO: PL25745
TEST TEMP: -40C



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

PL25745/1924

| <p>LOG TRANSFER WITH FREQUENCY MODEL: HADA-D2001 TESTED BY: J.Emperador TEST DATE: 06/10/19 SERIAL NO: PL25745 TEST TEMP: +85C</p> | | | <p>Graph #3</p> <p>DC Offset= 0.100 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>Frequency</p> | | | | | | | | | | | | | <p>RF Input Power (dBm)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.5 GHz | INTERCEPT (mV) | 2333 | | | | | | | | | | | Measured Value (mV) Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | SLOPE (mV/dB) | 50.8 | | | | | | | | | | | Error (mV) MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | <table border="1" style="width: 100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th></th><th>-40</th><th>-35</th><th>-30</th><th>-25</th><th>-20</th><th>-15</th><th>-10</th><th>-5</th><th>0</th></tr> </thead> <tbody> <tr><td>306</td><td>561</td><td>801</td><td>1049</td><td>1314</td><td>1578</td><td>1817</td><td>2073</td><td>2345</td><td></td></tr> <tr><td>7</td><td>8</td><td>-7</td><td>-13</td><td>-2</td><td>8</td><td>-7</td><td>-6</td><td>12</td><td></td></tr> <tr><td>0.14</td><td>0.15</td><td>-0.13</td><td>-0.25</td><td>-0.04</td><td>0.15</td><td>-0.15</td><td>-0.11</td><td>0.24</td><td></td></tr> <tr><td>-0.88</td><td>-0.78</td><td>-0.98</td><td>-1.02</td><td>-0.72</td><td>-0.44</td><td>-0.66</td><td>-0.54</td><td>-0.10</td><td></td></tr> <tr><td>332</td><td>589</td><td>832</td><td>1076</td><td>1345</td><td>1609</td><td>1846</td><td>2107</td><td>2366</td><td></td></tr> <tr><td>4</td><td>7</td><td>-4</td><td>-14</td><td>0</td><td>10</td><td>-7</td><td>0</td><td>5</td><td></td></tr> <tr><td>0.08</td><td>0.14</td><td>-0.08</td><td>-0.28</td><td>0.01</td><td>0.20</td><td>-0.14</td><td>0.00</td><td>0.09</td><td></td></tr> <tr><td>-0.36</td><td>-0.22</td><td>-0.36</td><td>-0.48</td><td>-0.10</td><td>0.18</td><td>-0.08</td><td>0.14</td><td>0.32</td><td></td></tr> <tr><td>317</td><td>573</td><td>813</td><td>1059</td><td>1326</td><td>1593</td><td>1832</td><td>2111</td><td>2372</td><td></td></tr> <tr><td>11</td><td>10</td><td>-6</td><td>-17</td><td>-7</td><td>3</td><td>-14</td><td>8</td><td>12</td><td></td></tr> <tr><td>0.22</td><td>0.20</td><td>-0.12</td><td>-0.33</td><td>-0.13</td><td>0.07</td><td>-0.28</td><td>0.15</td><td>0.23</td><td></td></tr> <tr><td>-0.55</td><td>-0.54</td><td>-0.74</td><td>-0.82</td><td>-0.68</td><td>-0.14</td><td>-0.58</td><td>0.22</td><td>0.44</td><td></td></tr> <tr><td>0.30</td><td>0.30</td><td>0.30</td><td>0.30</td><td>0.30</td><td>0.30</td><td>0.30</td><td>0.40</td><td>0.30</td><td></td></tr> <tr><td>0.33</td><td>0.59</td><td>0.83</td><td>1.08</td><td>1.35</td><td>1.61</td><td>1.85</td><td>2.11</td><td>2.37</td><td></td></tr> <tr><td>0.31</td><td>0.56</td><td>0.80</td><td>1.05</td><td>1.31</td><td>1.58</td><td>1.82</td><td>2.07</td><td>2.35</td><td></td></tr> </tbody> </table> | | | | | | | | | | | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | 306 | 561 | 801 | 1049 | 1314 | 1578 | 1817 | 2073 | 2345 | | 7 | 8 | -7 | -13 | -2 | 8 | -7 | -6 | 12 | | 0.14 | 0.15 | -0.13 | -0.25 | -0.04 | 0.15 | -0.15 | -0.11 | 0.24 | | -0.88 | -0.78 | -0.98 | -1.02 | -0.72 | -0.44 | -0.66 | -0.54 | -0.10 | | 332 | 589 | 832 | 1076 | 1345 | 1609 | 1846 | 2107 | 2366 | | 4 | 7 | -4 | -14 | 0 | 10 | -7 | 0 | 5 | | 0.08 | 0.14 | -0.08 | -0.28 | 0.01 | 0.20 | -0.14 | 0.00 | 0.09 | | -0.36 | -0.22 | -0.36 | -0.48 | -0.10 | 0.18 | -0.08 | 0.14 | 0.32 | | 317 | 573 | 813 | 1059 | 1326 | 1593 | 1832 | 2111 | 2372 | | 11 | 10 | -6 | -17 | -7 | 3 | -14 | 8 | 12 | | 0.22 | 0.20 | -0.12 | -0.33 | -0.13 | 0.07 | -0.28 | 0.15 | 0.23 | | -0.55 | -0.54 | -0.74 | -0.82 | -0.68 | -0.14 | -0.58 | 0.22 | 0.44 | | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.40 | 0.30 | | 0.33 | 0.59 | 0.83 | 1.08 | 1.35 | 1.61 | 1.85 | 2.11 | 2.37 | | 0.31 | 0.56 | 0.80 | 1.05 | 1.31 | 1.58 | 1.82 | 2.07 | 2.35 | | Measured Value (mV) Error(dB) | | |
| | -40 | -35 | -30 | -25 | -20 | -15 | -10 | -5 | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 306 | 561 | 801 | 1049 | 1314 | 1578 | 1817 | 2073 | 2345 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 8 | -7 | -13 | -2 | 8 | -7 | -6 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.14 | 0.15 | -0.13 | -0.25 | -0.04 | 0.15 | -0.15 | -0.11 | 0.24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.88 | -0.78 | -0.98 | -1.02 | -0.72 | -0.44 | -0.66 | -0.54 | -0.10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 332 | 589 | 832 | 1076 | 1345 | 1609 | 1846 | 2107 | 2366 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 7 | -4 | -14 | 0 | 10 | -7 | 0 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.08 | 0.14 | -0.08 | -0.28 | 0.01 | 0.20 | -0.14 | 0.00 | 0.09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.36 | -0.22 | -0.36 | -0.48 | -0.10 | 0.18 | -0.08 | 0.14 | 0.32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 317 | 573 | 813 | 1059 | 1326 | 1593 | 1832 | 2111 | 2372 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 10 | -6 | -17 | -7 | 3 | -14 | 8 | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.22 | 0.20 | -0.12 | -0.33 | -0.13 | 0.07 | -0.28 | 0.15 | 0.23 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| -0.55 | -0.54 | -0.74 | -0.82 | -0.68 | -0.14 | -0.58 | 0.22 | 0.44 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.30 | 0.40 | 0.30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.33 | 0.59 | 0.83 | 1.08 | 1.35 | 1.61 | 1.85 | 2.11 | 2.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.31 | 0.56 | 0.80 | 1.05 | 1.31 | 1.58 | 1.82 | 2.07 | 2.35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Error (mV) MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | LINEARITY ERROR (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | LOGGING ACCURACY (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 GHz | | | | | | | | | | | | | Measured Value (mV) Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTERCEPT (mV) | | | | | | | | | | | | | Error (mV) MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLOPE (mV/dB) | | | | | | | | | | | | | LINEARITY ERROR (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | LOGGING ACCURACY (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 GHz | | | | | | | | | | | | | Measured Value (mV) Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| INTERCEPT (mV) | | | | | | | | | | | | | Error (mV) MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SLOPE (mV/dB) | | | | | | | | | | | | | LINEARITY ERROR (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | LOGGING ACCURACY (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flatness +/- dB | | | | | | | | | | | | | Logging Linearity vs Frequency Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Max Video Output Volts | | | | | | | | | | | | | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Min Video Output Volts | | | | | | | | | | | | | TOTAL LOG LINEARITY (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0.24 -0.33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Logging Accuracy vs Frequency Error(dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | MAX MIN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | TOTAL LOGGING ACCURACY (dB) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | 0.44 -1.02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

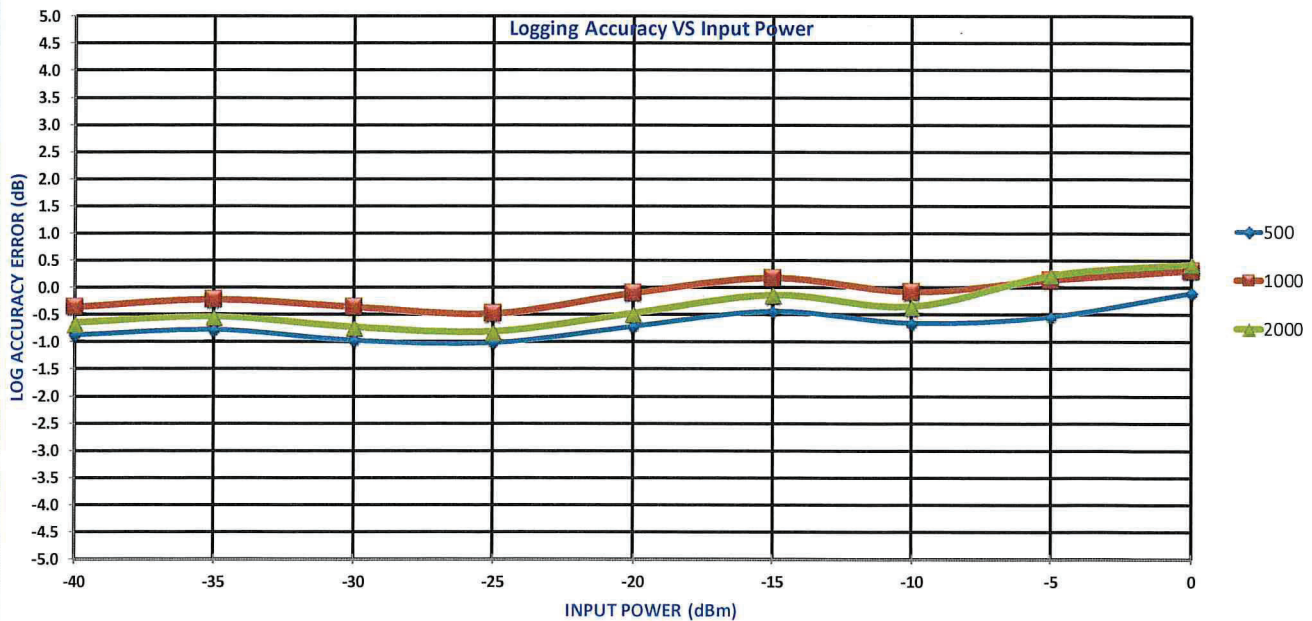
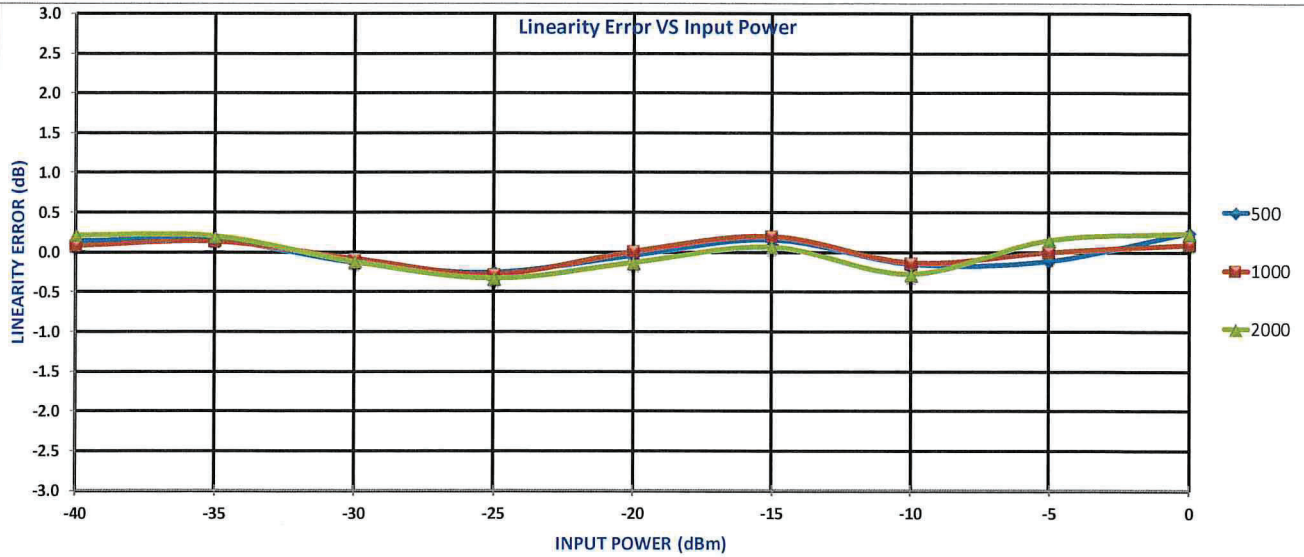
4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax: (916)265-2597
 Email: sales@pmi-rf.com



SUMMARY TEST DATA ON HADA-D2001

PL25745/1924

LOG TRANSFER WITH FREQUENCY
MODEL: HADA-D2001
TESTED BY: J.Emperador
SERIAL NO: PL25745
TEST TEMP: +85C

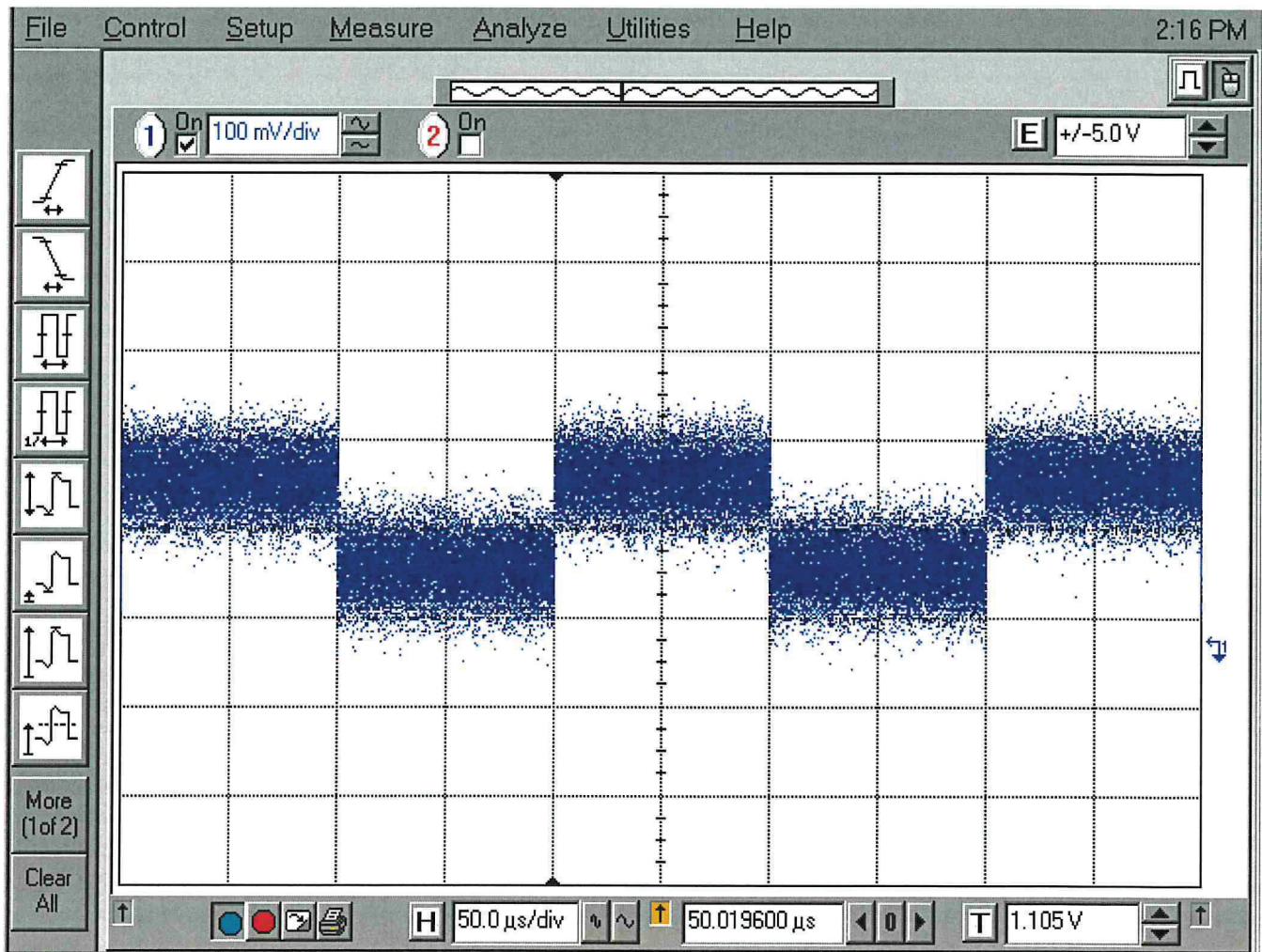


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(916)265-2597
Email: sales@pmi-rf.com



**SUMMARY TEST DATA
ON
HADA-D2001**

PL25745/1924

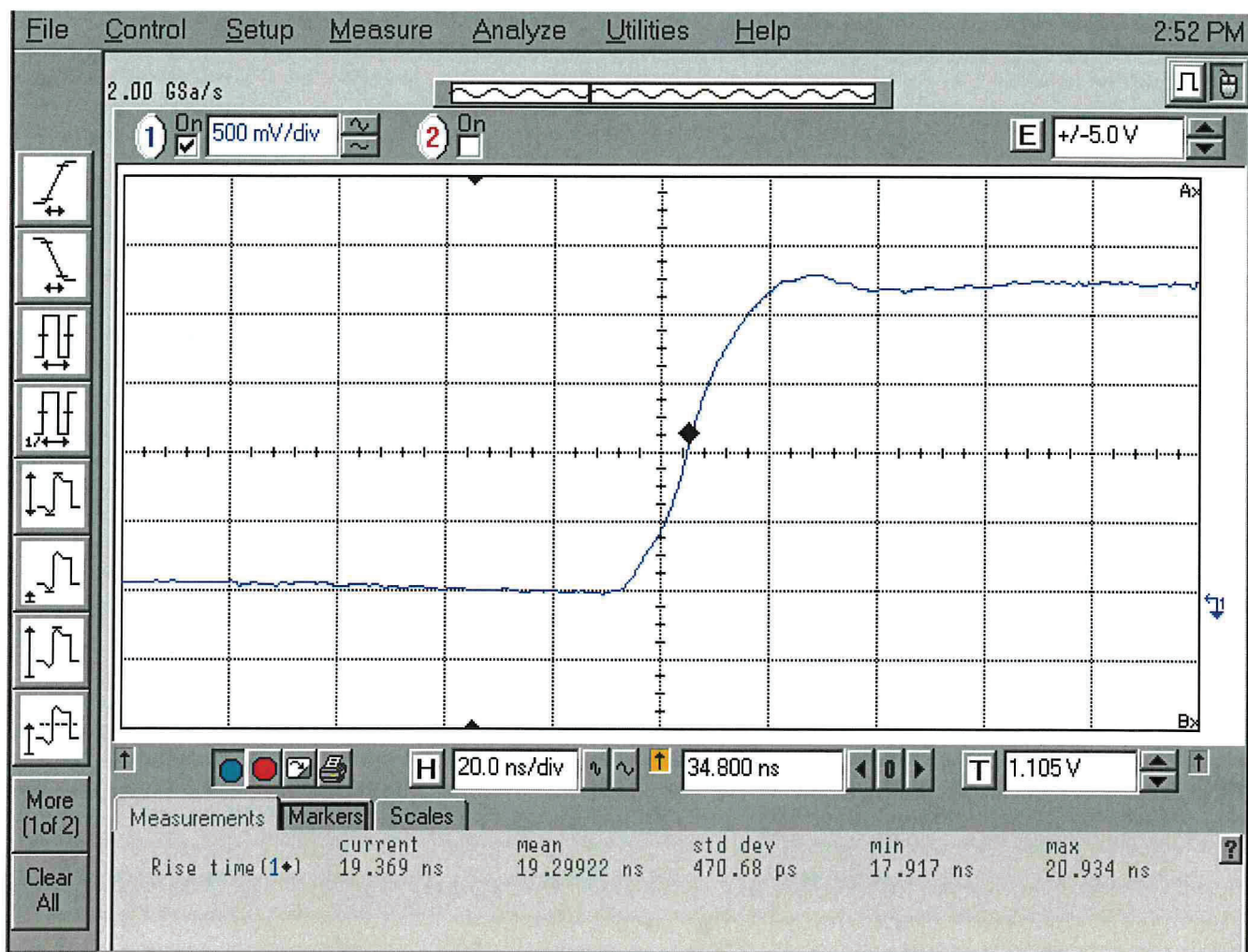


4921 Robert J. Mathews Pkwy Suite 1, El Dorado Hills, CA 95762 USA Phone: (916)542-1401 Fax:
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Email: sales@pmi-rf.com



**SUMMARY TEST DATA
ON
HADA-D2001**

PL25745/1924

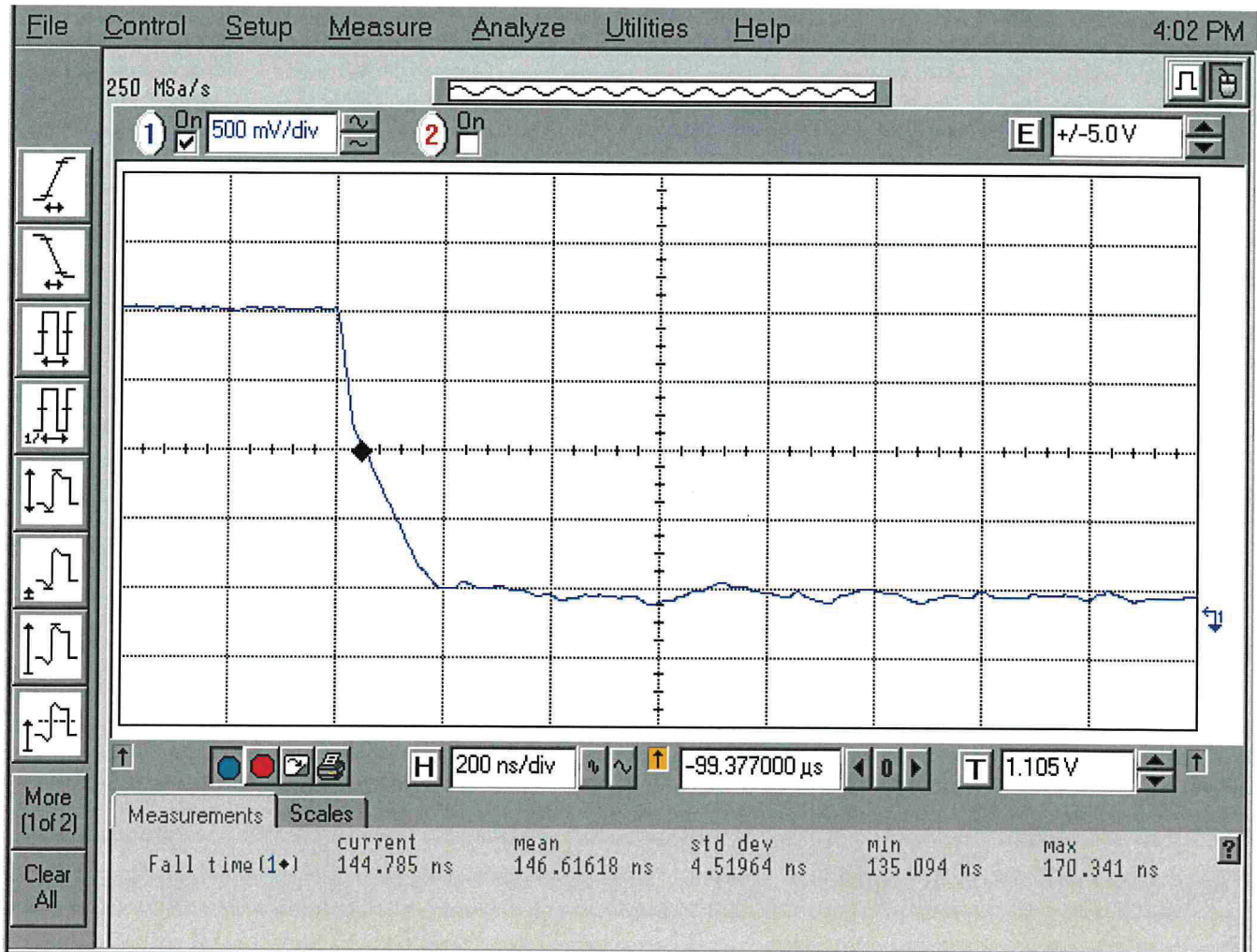


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**SUMMARY TEST DATA
ON
HADA-D2001**

PL25745/1924



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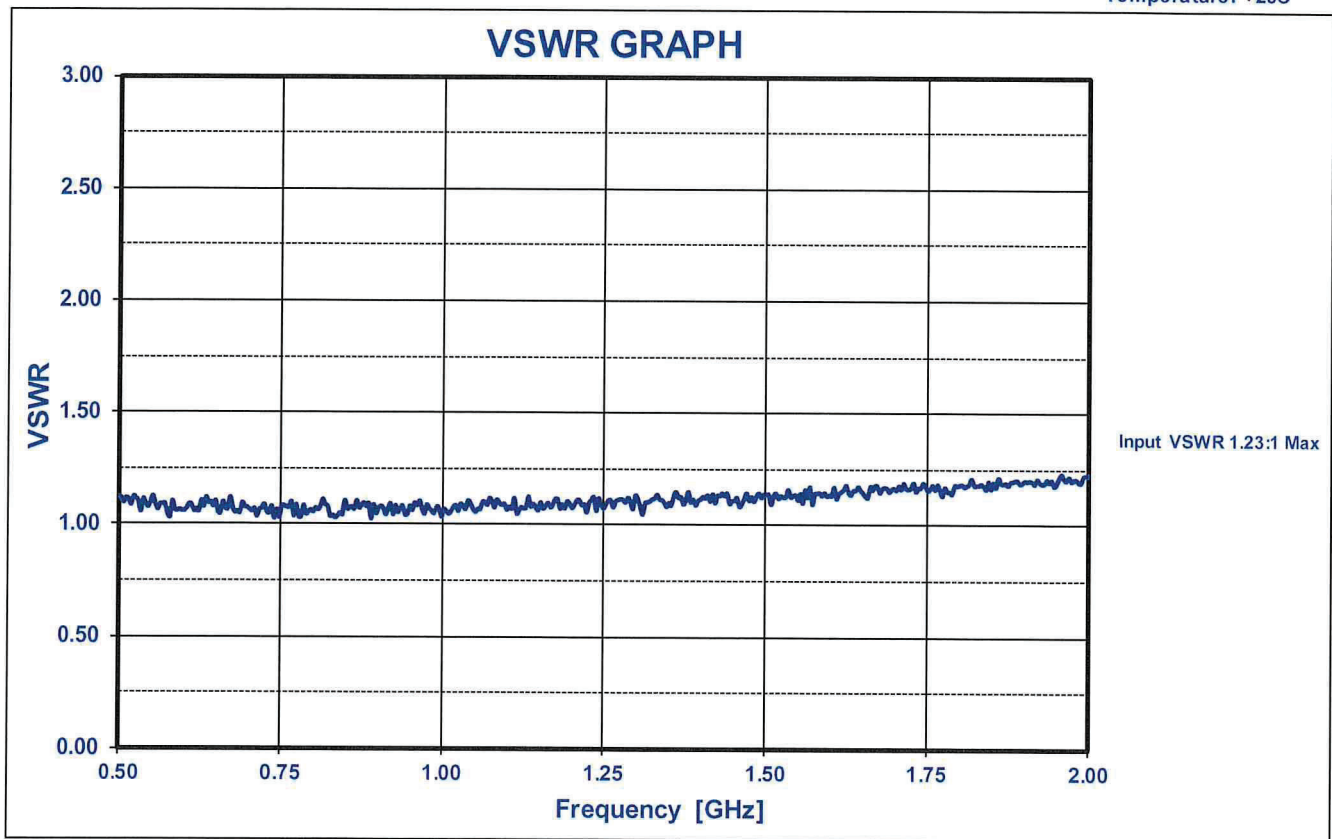


**SUMMARY TEST DATA
ON
HADA-D2001**

PL25745/1924

Model Number: HADA-D2001
Serial Number: PL25745

Temperature: +25C



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(916)265-2597
Email: sales@pmi-rf.com