Impedance Standard Substrate Map

Impedance Standard Substrate For Up to 67 GHz

**Pitch:** 100 μm - 150 μm, **Configuration:** GSSG, GSS, SSG, GS

**P/N:** 129-246

**S/N:**

Cascade

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Impedance Standard Substrate Map

129-246

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FormFactor™
**Key to Map**

**Substrate specifications:** Alumina; **Thickness:** 25 mils (635 μm); **Dielectric constant:** 9.9

<table>
<thead>
<tr>
<th>Verification Lines (from left to right)</th>
<th>Thru Delay (ps)</th>
<th>Length (μm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>27</td>
<td>3500</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>1800</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>450</td>
</tr>
<tr>
<td></td>
<td>40</td>
<td>5250</td>
</tr>
</tbody>
</table>

**DC accuracy:** +/- 0.3%

**Note:** Ensure the bias supply is turned off during calibration. Applying bias to the probe during calibration could cause the resistance of the load to change.

For optimum calibration accuracy only the Red-marked load standards should be used.

**Open**

**A-H Alignment Marks**

**Short**

**Calibration Coefficients**

Calibration coefficients are dependent on the probe tip configuration, placement on a standard, and the shape and configuration of the set of standards. This leads to unique calibration coefficients for a unique pair of probe and ISS. Therefore, the calibration coefficients are supplied with the probe not with the ISS.

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**Figure 1:** Alignment marks

**Figure 2:** Images showing correct alignment and placement of probe tips

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