000111110001

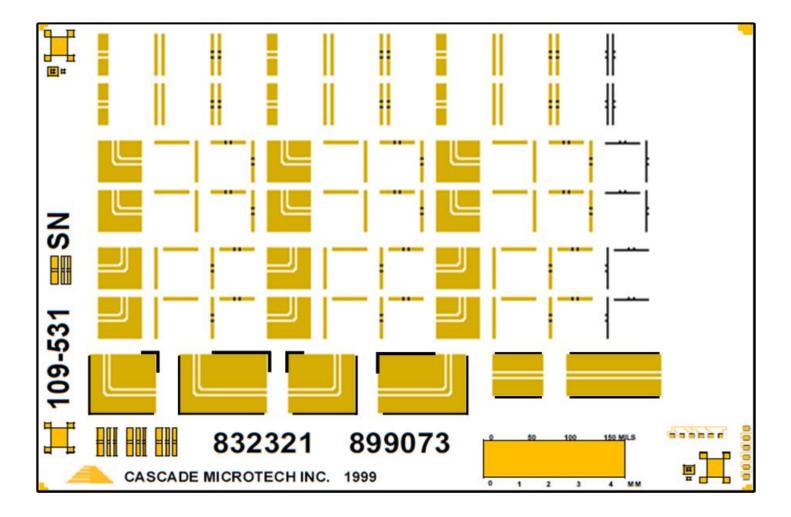
Cascade Impedance Standard SubstrateMap/

> P/N: 109-531

Right Angle Impedance Standard Substrate

Pitch: 100 μm - 500 μm

Configuration: **GSG**

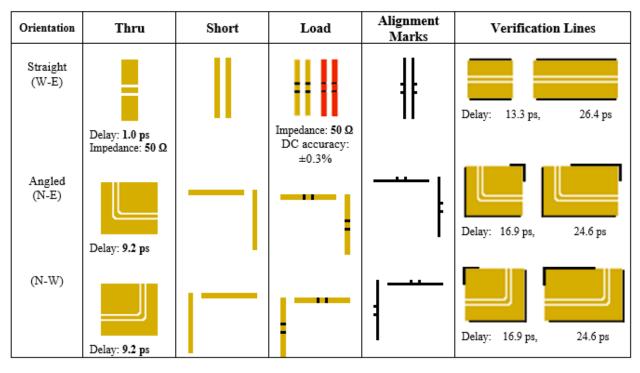




> Key to Map

Key to the 109-531 Map

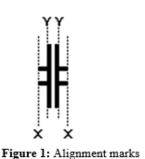
Substrate specifications: Material: Alumina; Thickness: 25 mils (635 um); Dielectric constant: 9.9



Notes:

- An Open is synthesized by raising the probes in air a minimum distance of 250 µm above the chuck surface.
- Precision 50 ohm Load
 - o For optimum calibration accuracy only the Red -marked load standards should be used.
 - 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.
- Recommended Overtravel; ACP Probes; 75 125 um, Infinity Probes; 50 75 um

Figure 1 shows that initial contact with the edge of the probe tips should be made at reference plane X (midpoint between the outer flat edge and the internal apex). The desired overtravel and thus skate (forward movement of probe tips after initial contact with substrate) is then achieved by adjusting the Z height on the positioner to move the edge of the probe tips to reference plane Y (midpoint between the internal apex and the flag points). This can also be seen from the photographic images shown in Figure 2.



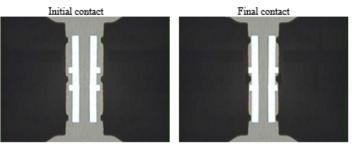


Figure 2: Images showing correct alignment and placement of probe tips

Calibration Coefficients are dependent on the probe tip configuration, placement on a standard, and the standard configurations. 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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