Si8000m / Si9000e / Speedstack / CGen 2016 Preview
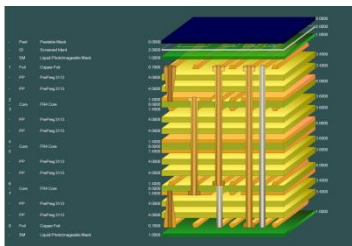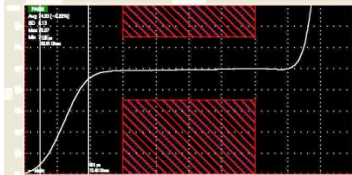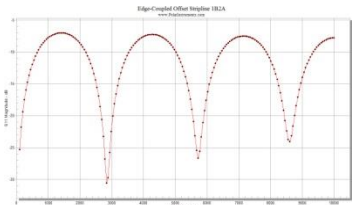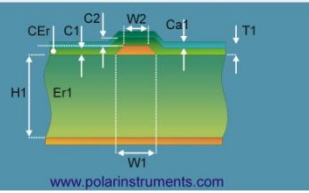
January 2016 - Richard Attrill / John Lee
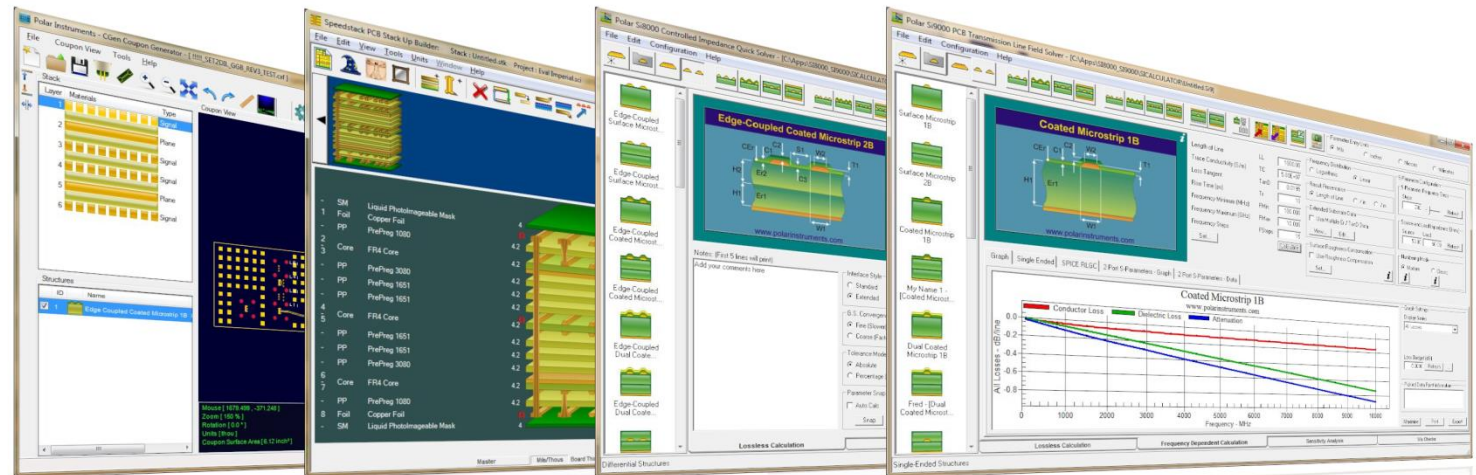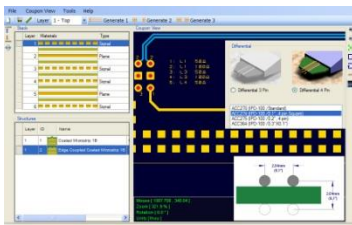
Si8000m / Si9000e 2016 : New Structures

Two new 'broadside over prepreg' style structures – for stackups where the two signal traces of the broadside are on separate core materials

Seven new differentials without grounds (no reference planes)

Aimed at low layer count stackups commonly used in the flex market, to be used only when no reference planes exist within stack up
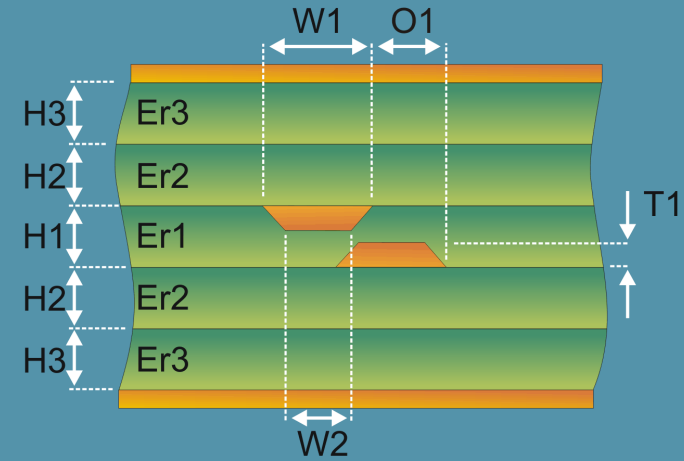
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Broadside over prepreg structures – two new structures

Broadside-Coupled Stripline 1E2S
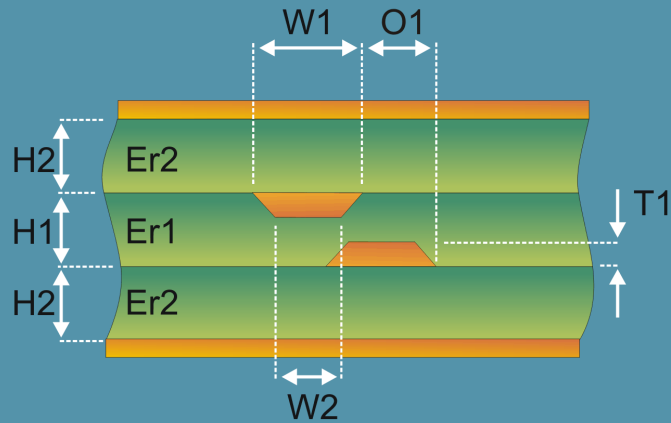
Broadside-Coupled Stripline 1E3S

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Broadside over prepreg structures

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Differential without ground (no reference planes) – seven structures

Edge-Coupled Surface Without Ground 1B
www.polarinstruments.com
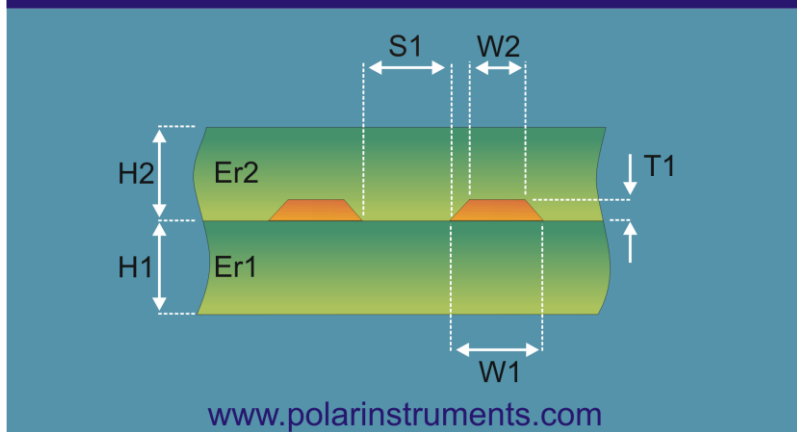
Edge-Coupled Surface Without Ground 2B
www.polarinstruments.com

Edge-Coupled Coated Without Ground 1B
www.polarinstruments.com

Edge-Coupled Coated Without Ground 2B
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Differential without ground (no reference planes) – seven structures

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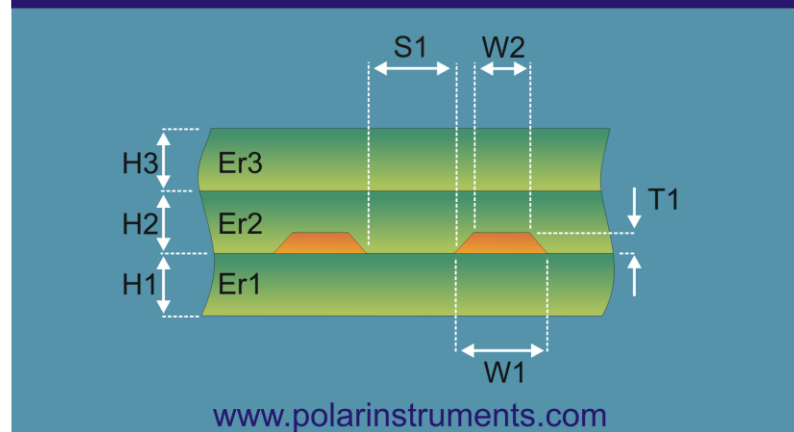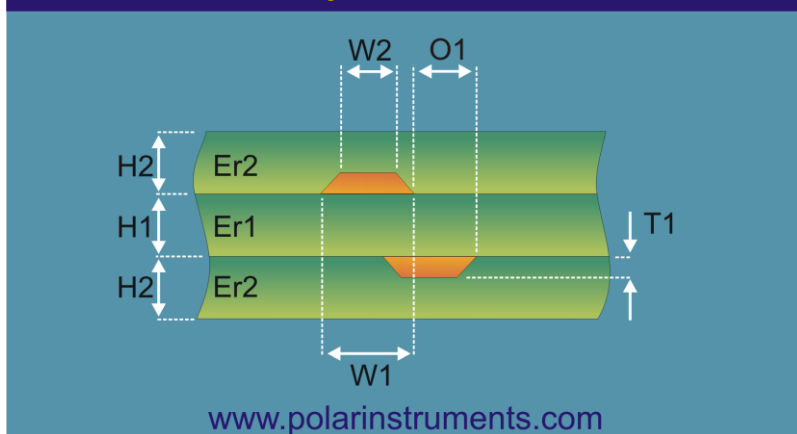
Summary

Differential without ground structures do not return even / common mode so will work differently to the other differential structures
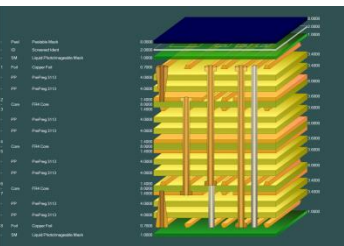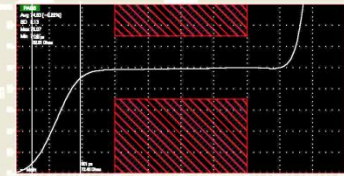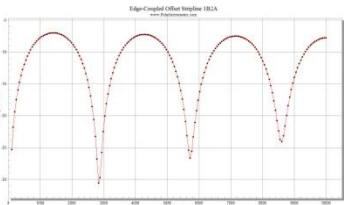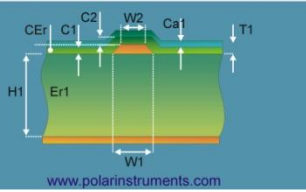
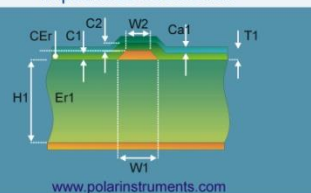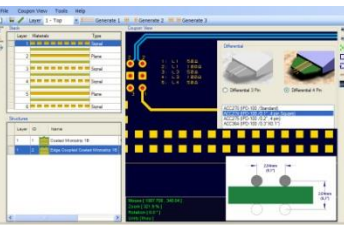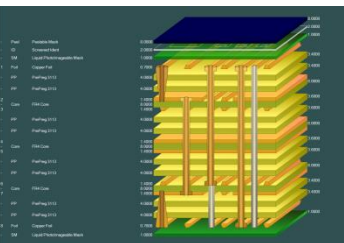Slated for release Si8000m / Si9000e 2016 by February/March

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Thank you
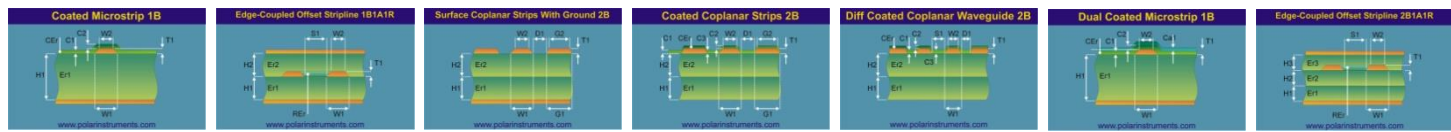
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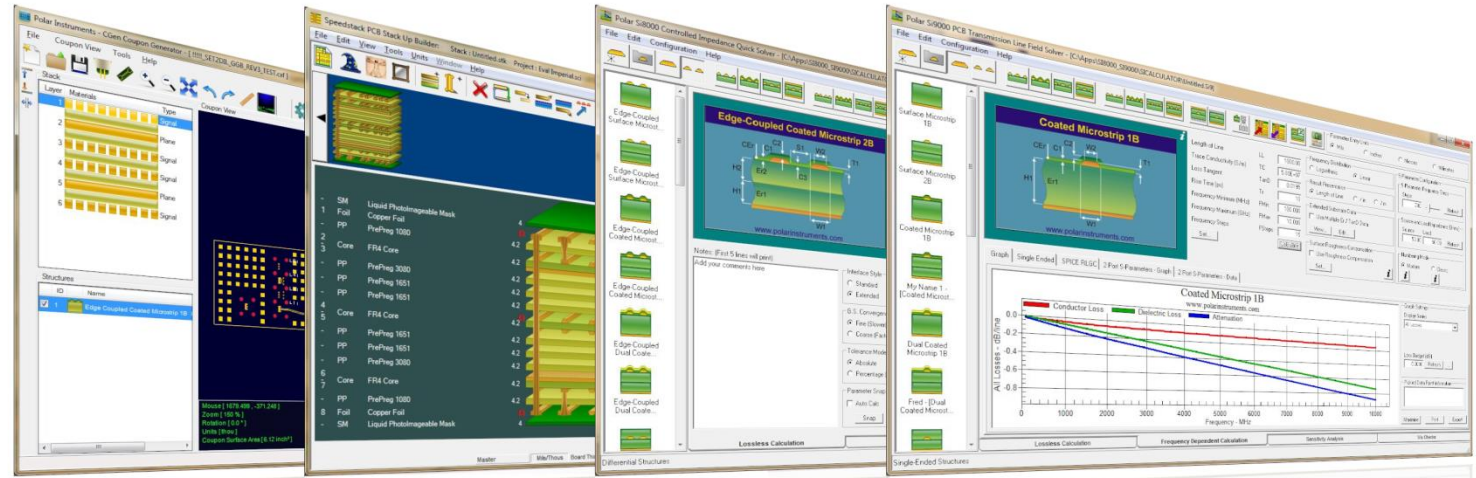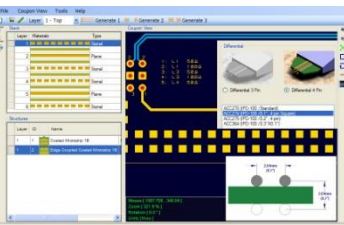
Impedance calculation

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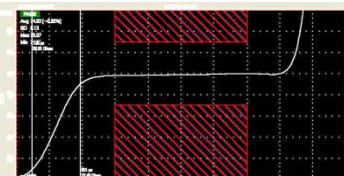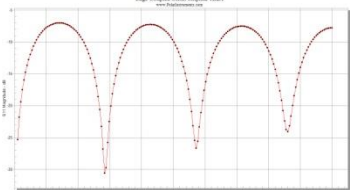
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