

Speedstack 2021 Preview

Richard Attrill – January 2021 (Rev 1)





Introducing Speedstack 2021

Welcome to a preview of Speedstack 2021.

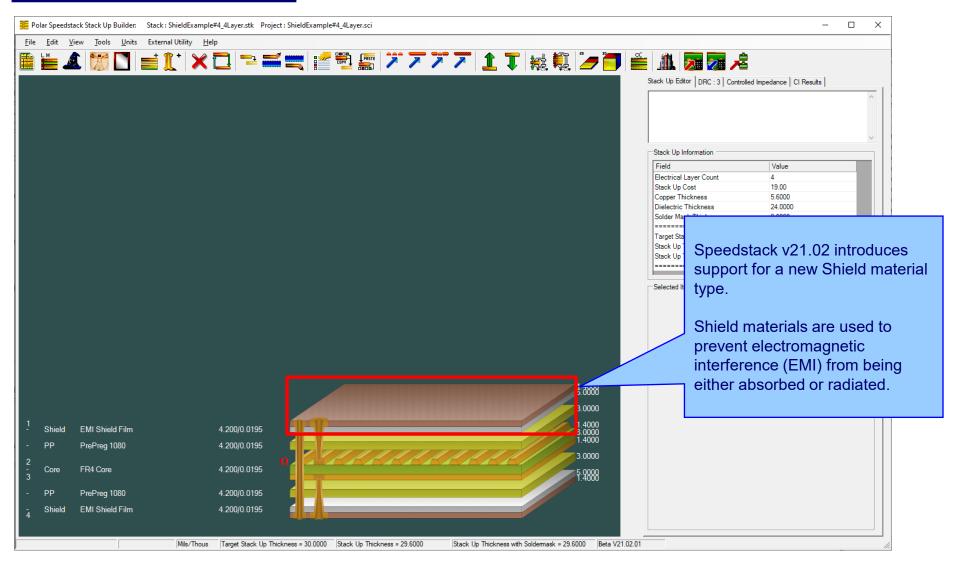
We have introduced a number of new features that have been requested through our Polarcare software maintenance service.

If you would like to have a web-based demonstration please contact your local Polar office, details are shown on the last slide of this presentation.

Please note: the Speedstack units have been set to Mils in the following screen grabs



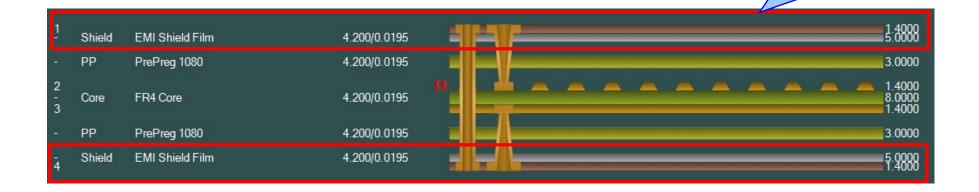
New Shield material

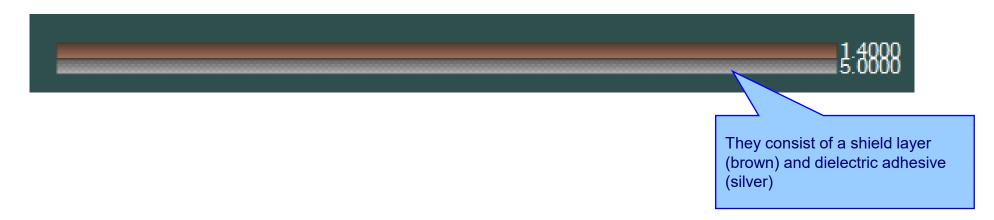




New Shield material

Shields are typically applied to the outer layer(s) of the stack up



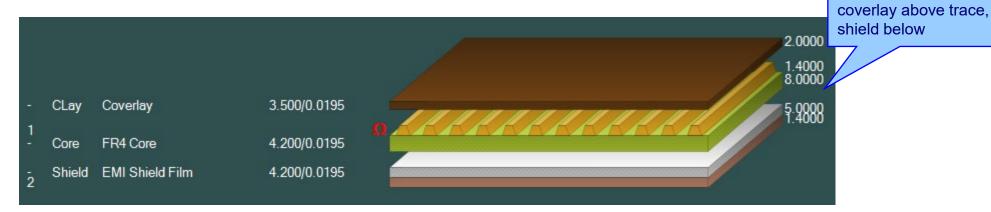


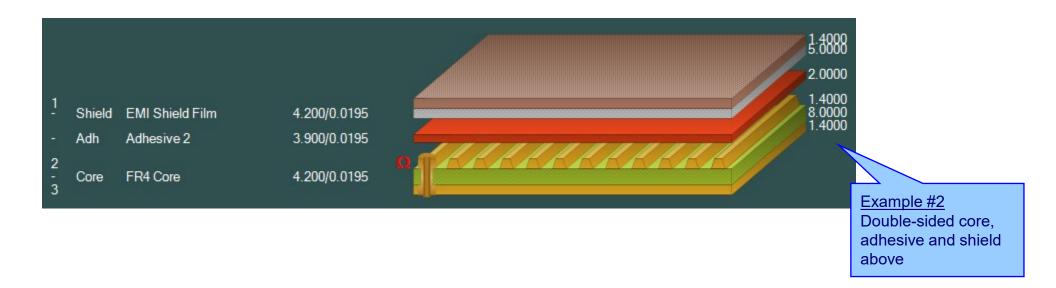
Example #1

Single-sided core,



Shield material examples

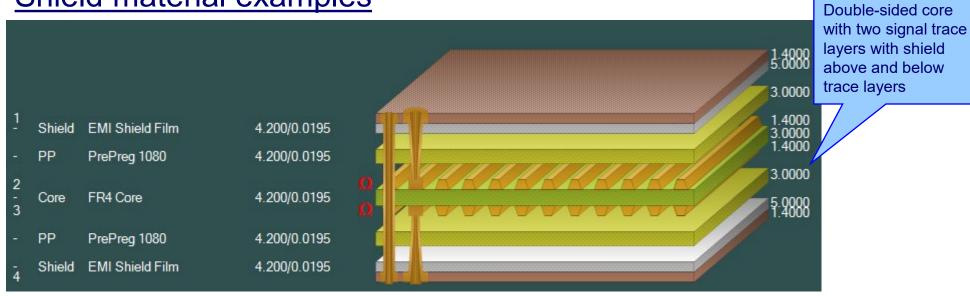


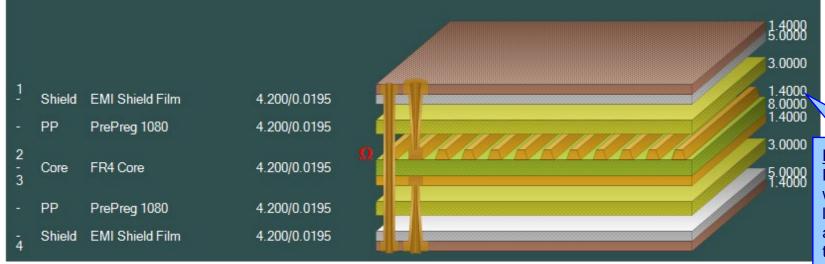


Example #3



Shield material examples

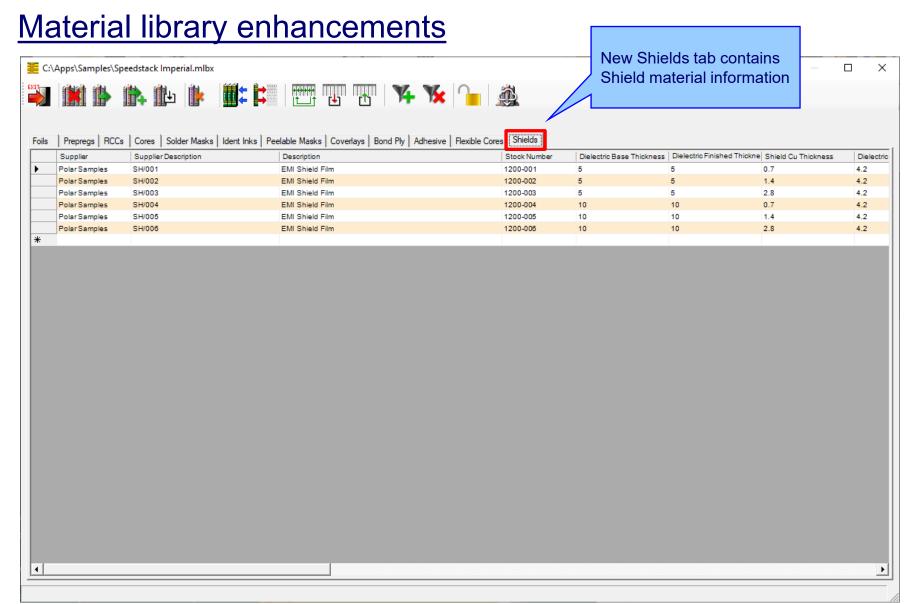




Example #4

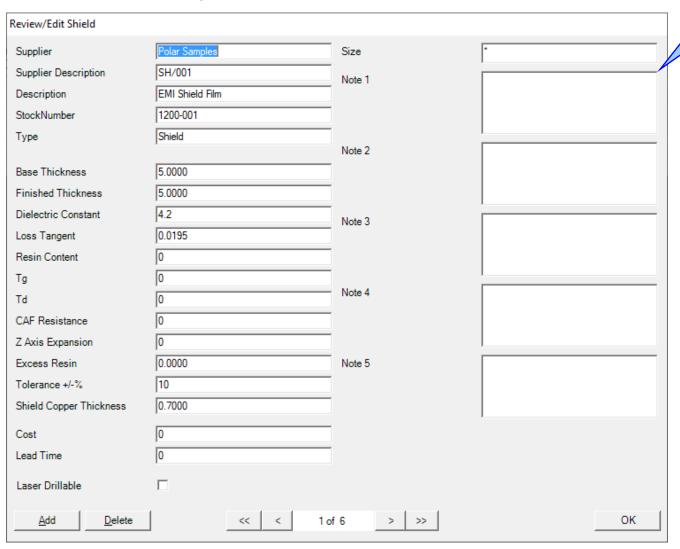
Double-sided core with one signal trace layer with shield above and below trace layers







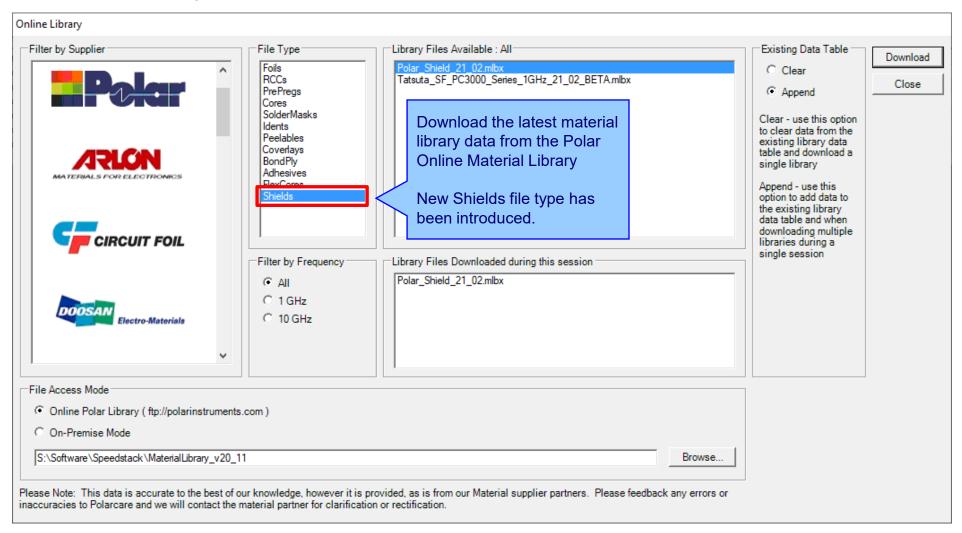
Material library enhancements



Material library Edit Shield dialog

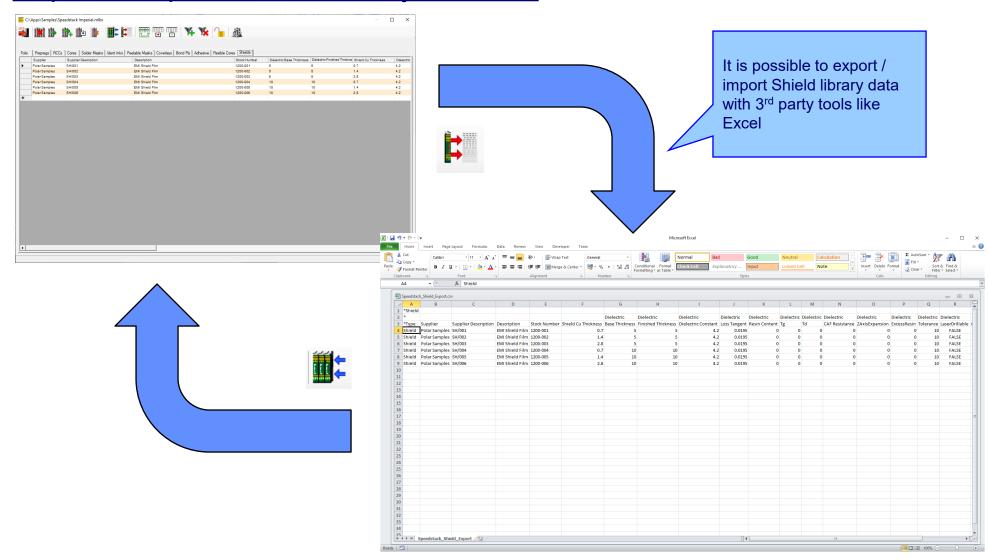


Online Library enhanced to support Shield materials



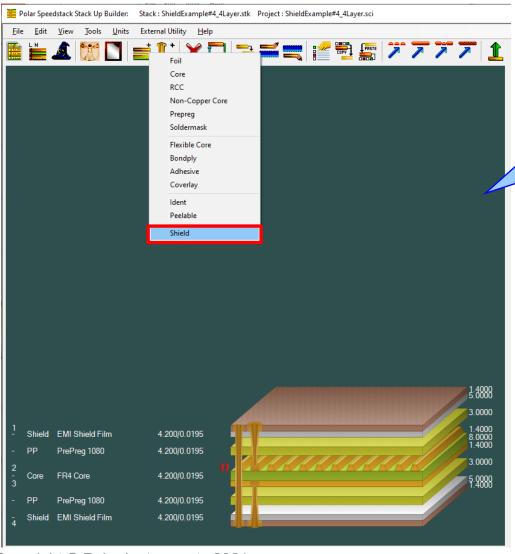


Export / Import Shield library to Excel





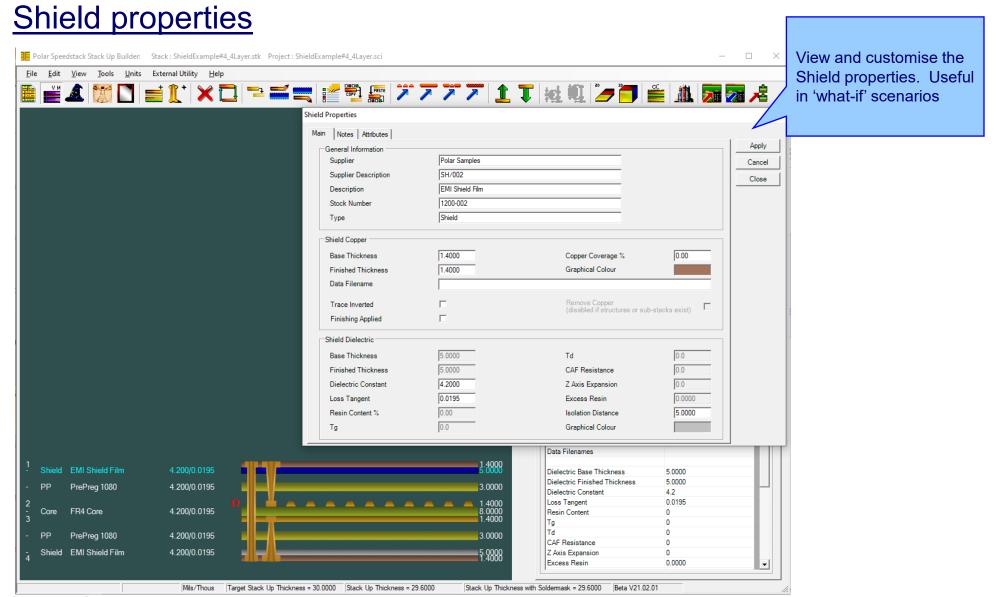
Stack up editor enhancements



Stack Up editor enhancements:

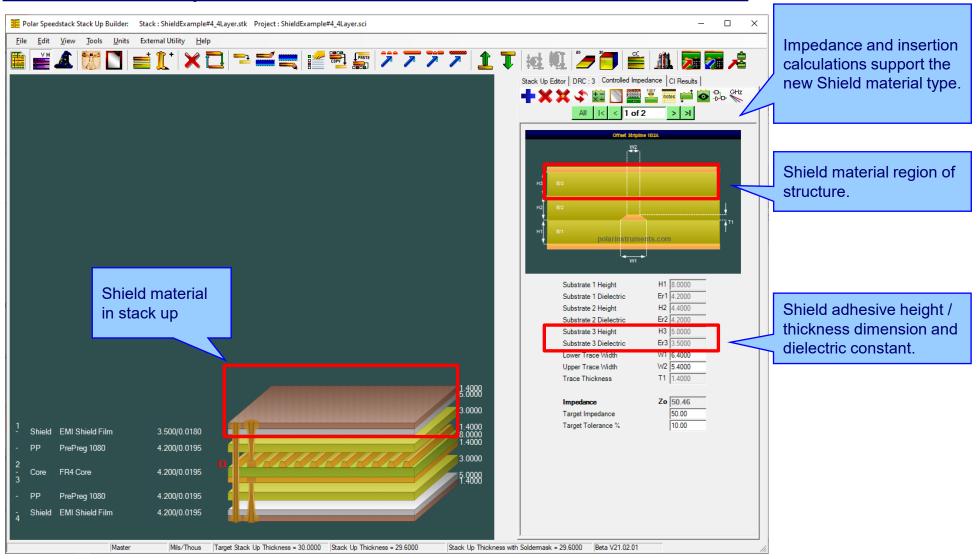
Shield material options to add, delete, swap, move up, move down, symmetry and set properties





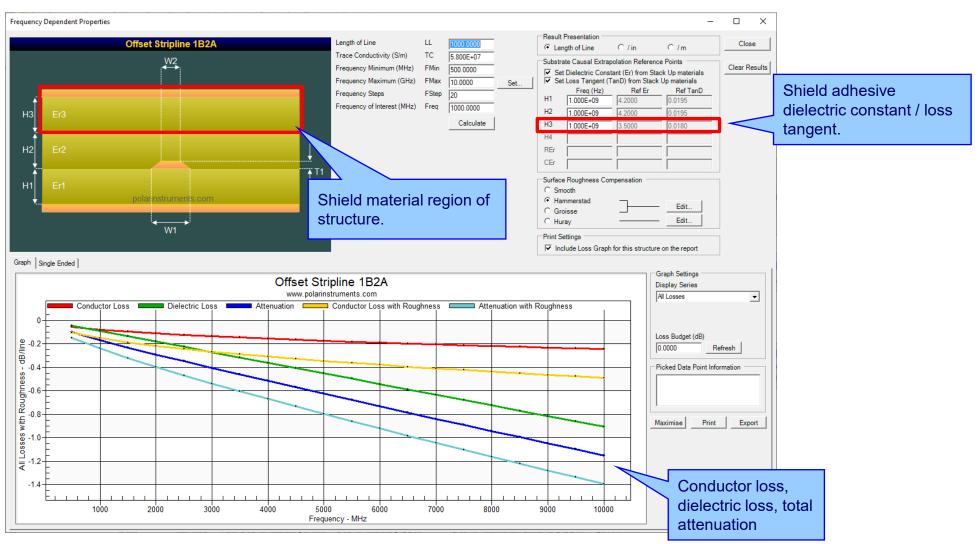


Controlled impedance and insertion loss calculations





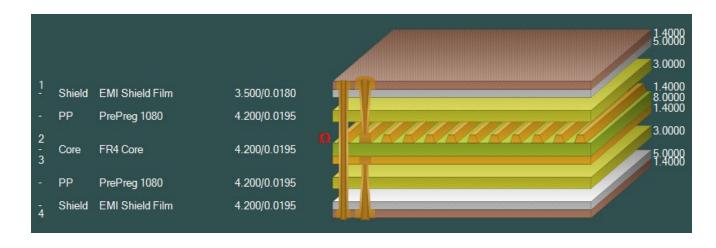
Controlled impedance and insertion loss calculations



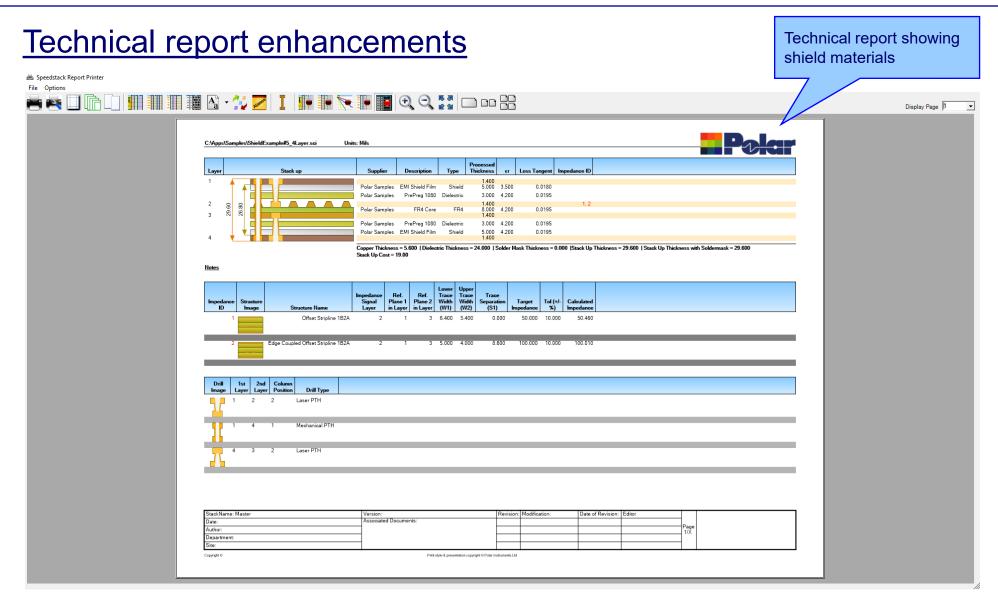


Controlled impedance and insertion loss calculations

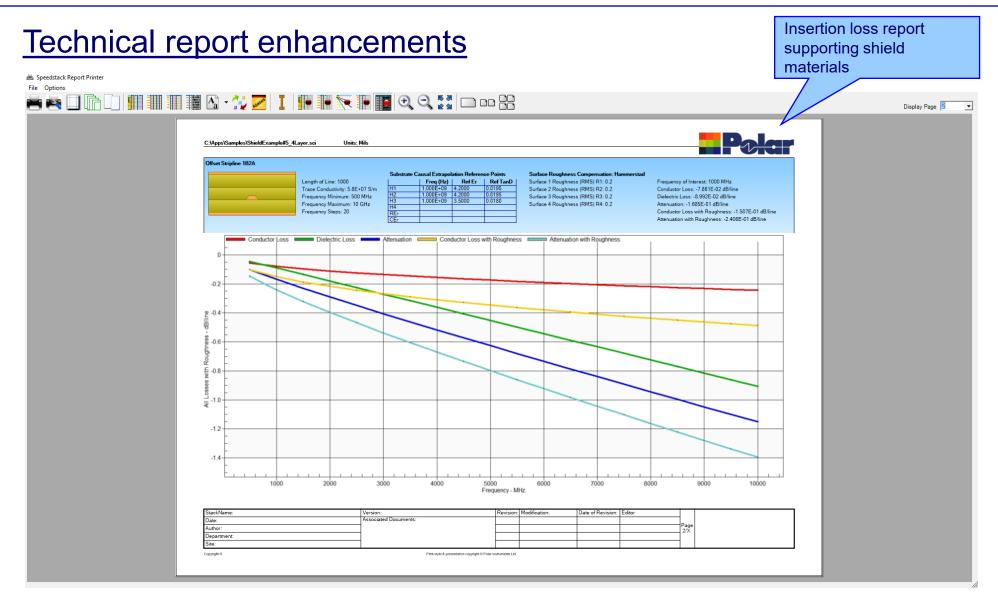
Please note: Speedstack is capable of supporting many shield types for stack up design and documentation. However, it is important to use the correct type of shield material for controlled impedance and insertion loss applications. They are often designated by the shield vendor as 'for high speed signal transmission applications'.











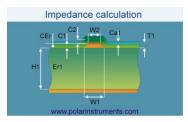


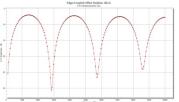
Import / Export enhancements

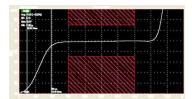
The following Import / Export options have been updated to support the new shield material introduced with Speedstack 2021:

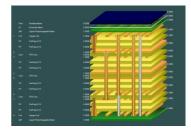
- XML STKX v20.00 and SSX v10.00 import / export options
- CSV export option
- Gerber / DXF export option

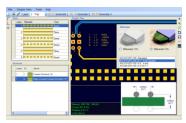


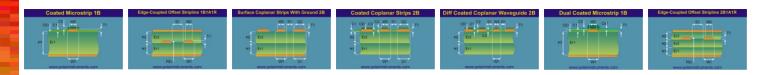












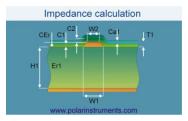
Thank you for viewing this Speedstack 2021 preview. If you have questions we would be delighted to help you. Your local contact information is contained on the following slide

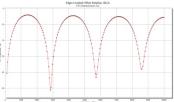


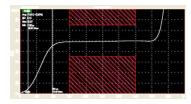
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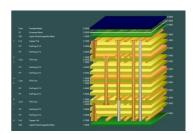
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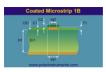




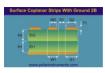


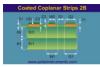


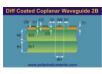


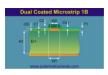


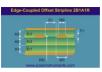












For more information:

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