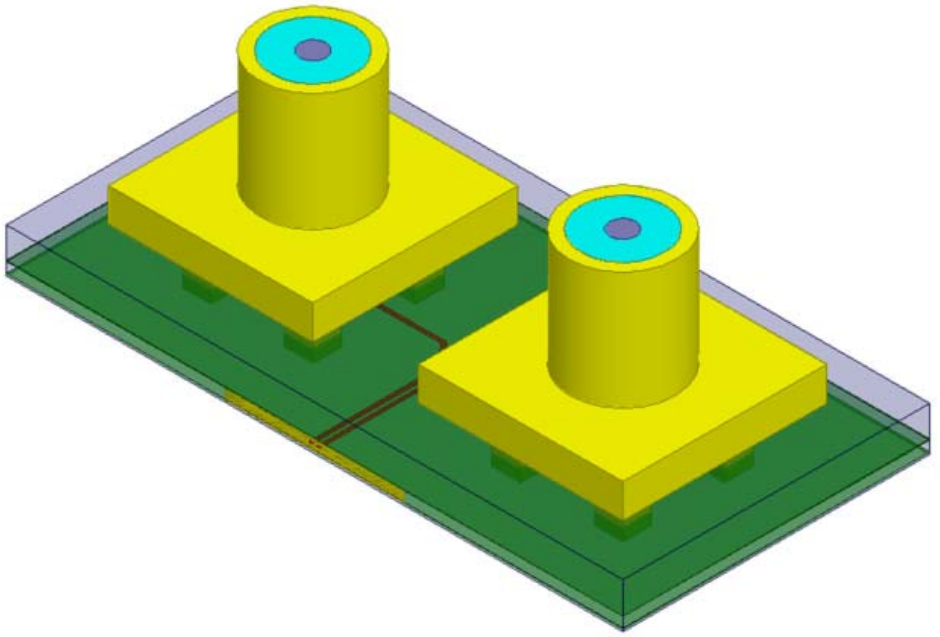
SMA to PCB transition

HFSS tutorial

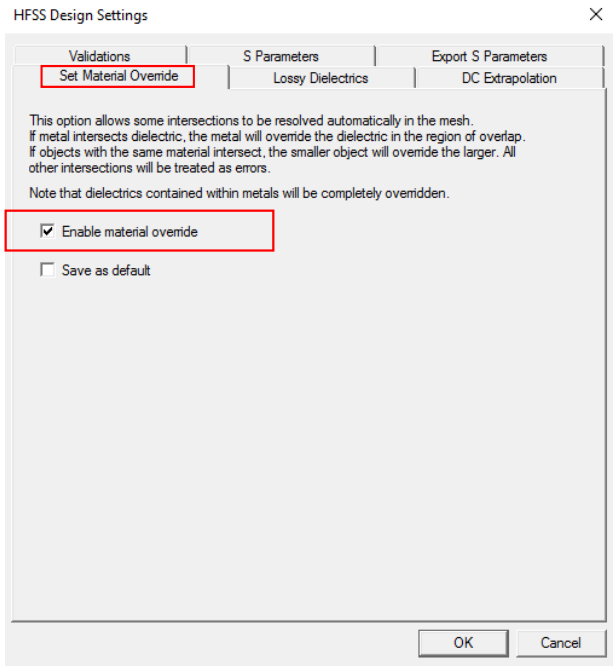
Introduction

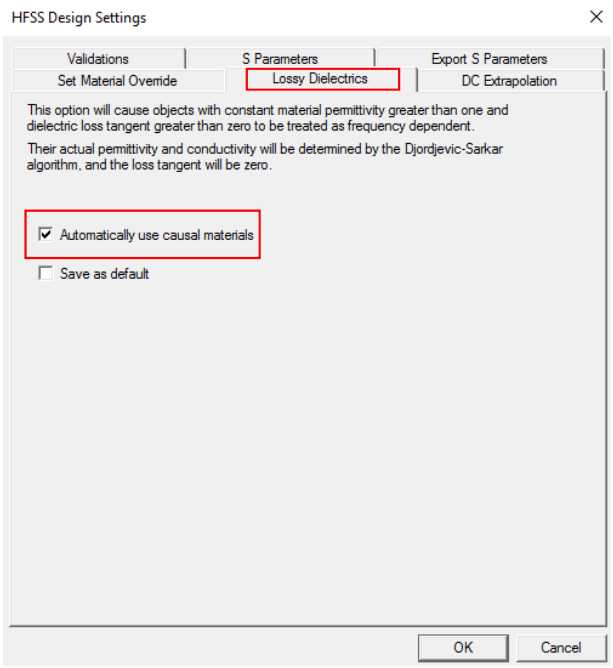
- Draw models in HFSS
- Set up boundary condition, excitation
- Post-processing S-parameter



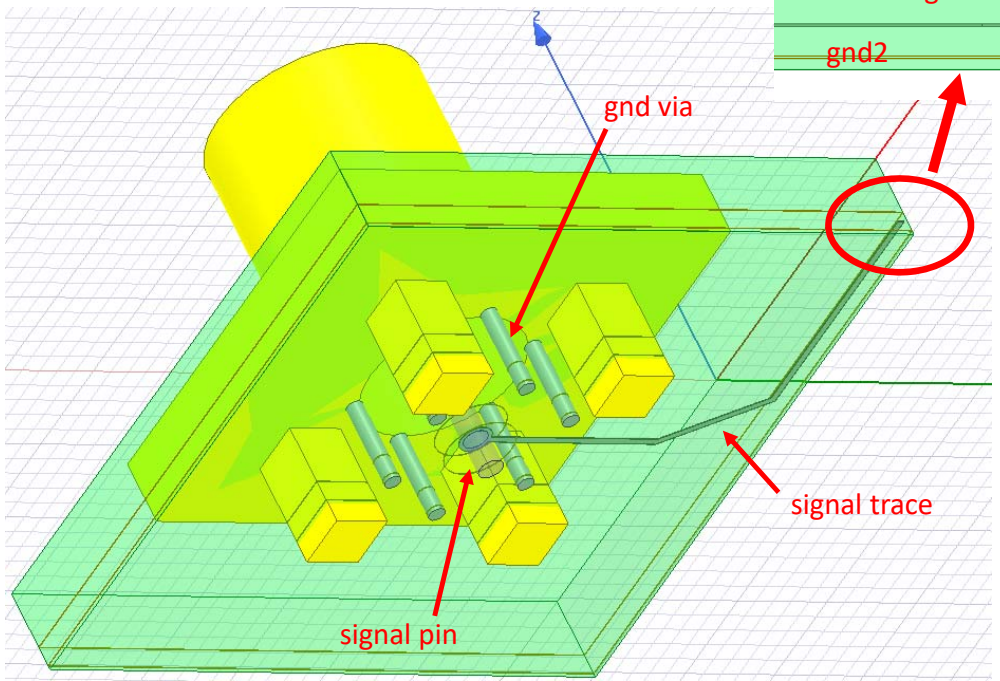
HFSS settings

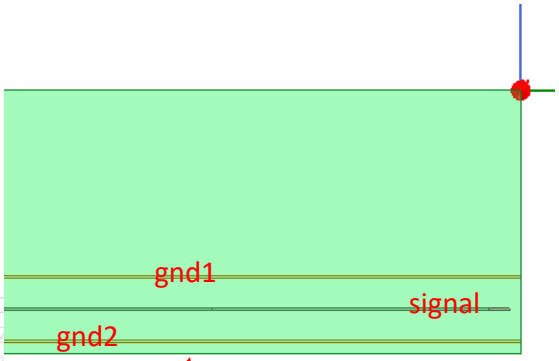
- Enable material override
  - No error:
    - Plane inside PCB
  - Error (still need to subtract/unite):
    - 2 copper objects intersect: via cuts plane
- Lossy dielectric

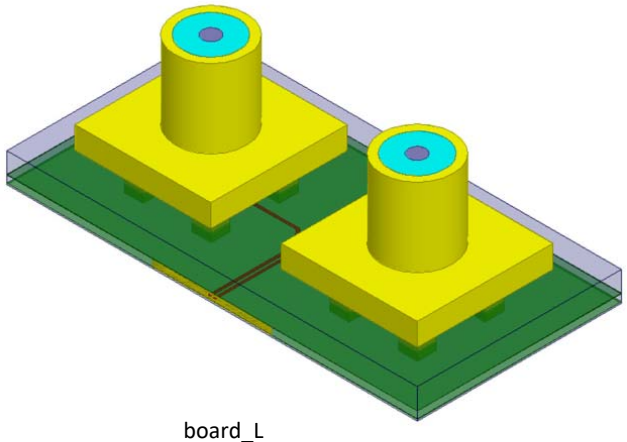


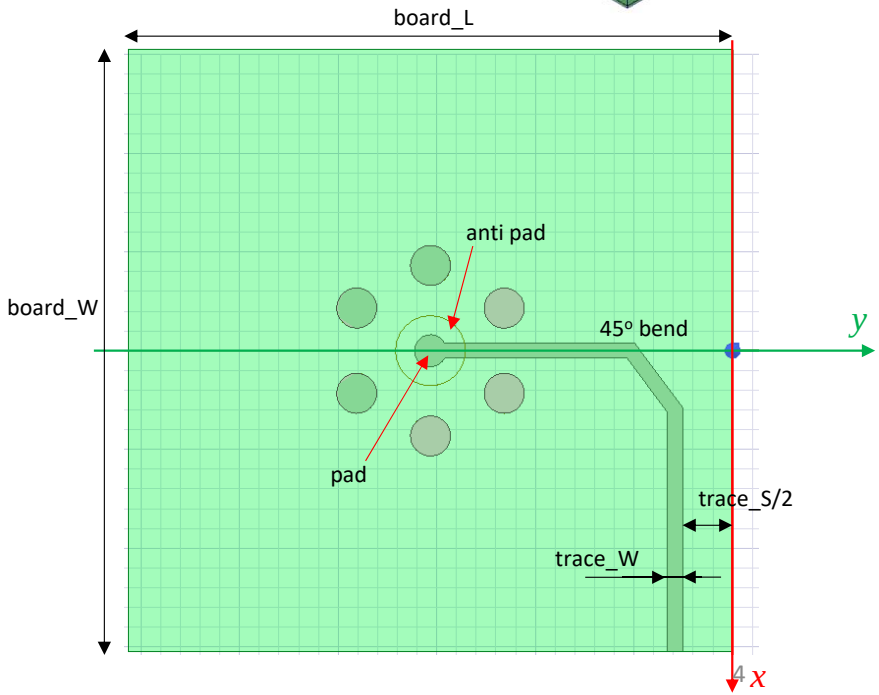


SMA to stripline



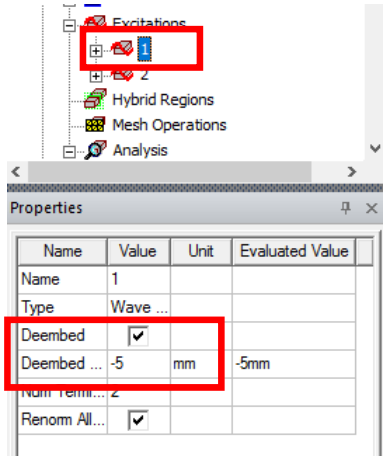


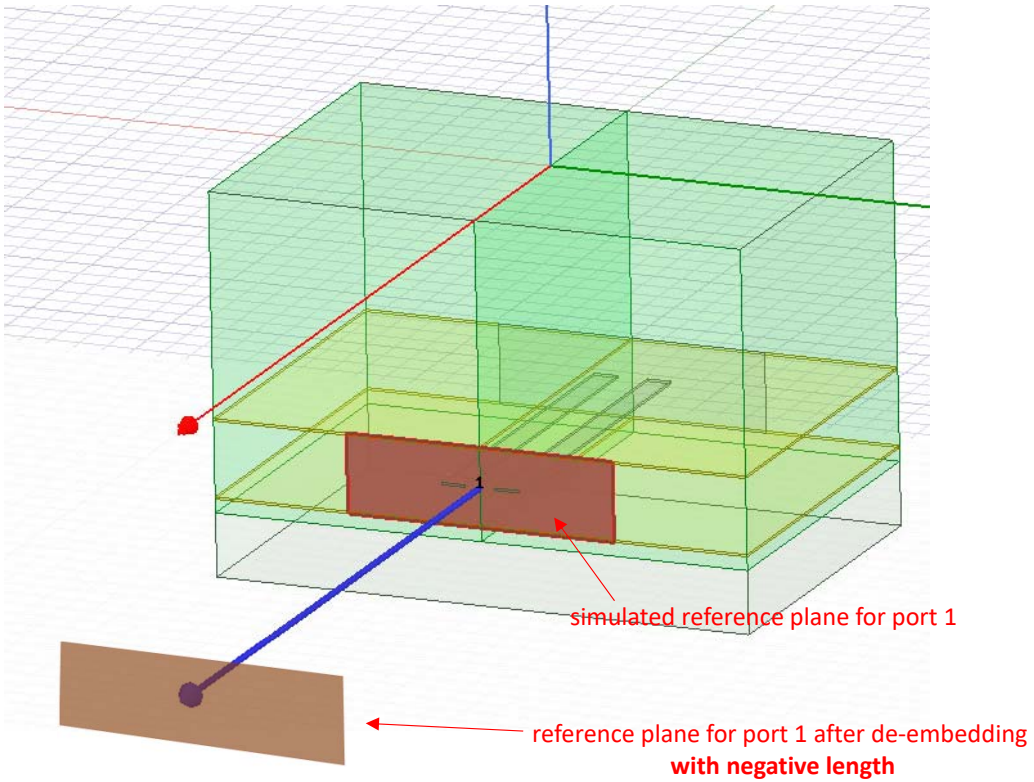




Transmission line de-embedding

- Perform de-embedding on uniform cross-section TL to reduce simulation time:
  - Only applicable to wave port (needs modal solution for this to work)





Mixed mode S-parameter

- Requires:
  - Driven Terminal
  - Wave port touches a pair of conductors
- A post-processing step, will **not** affect solved field results