

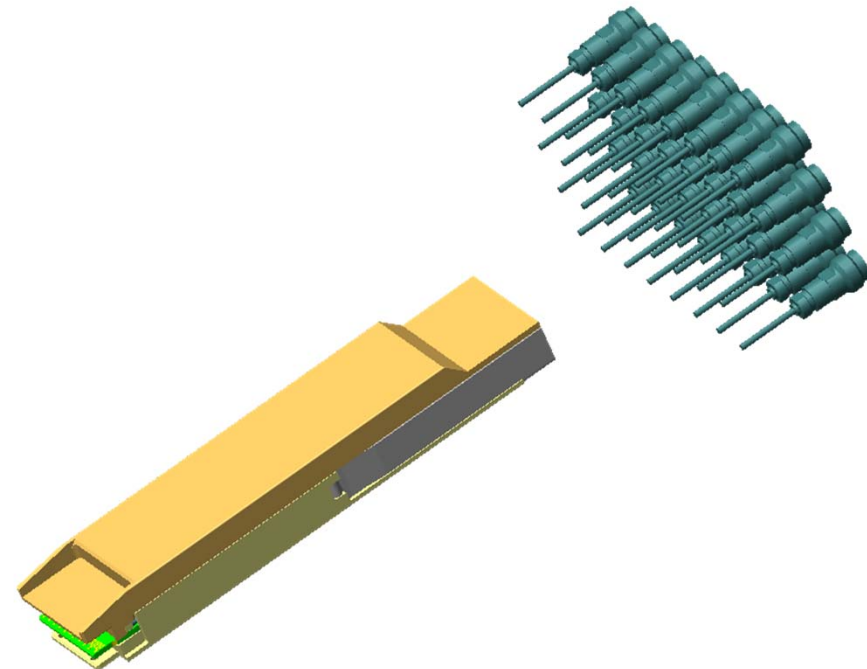


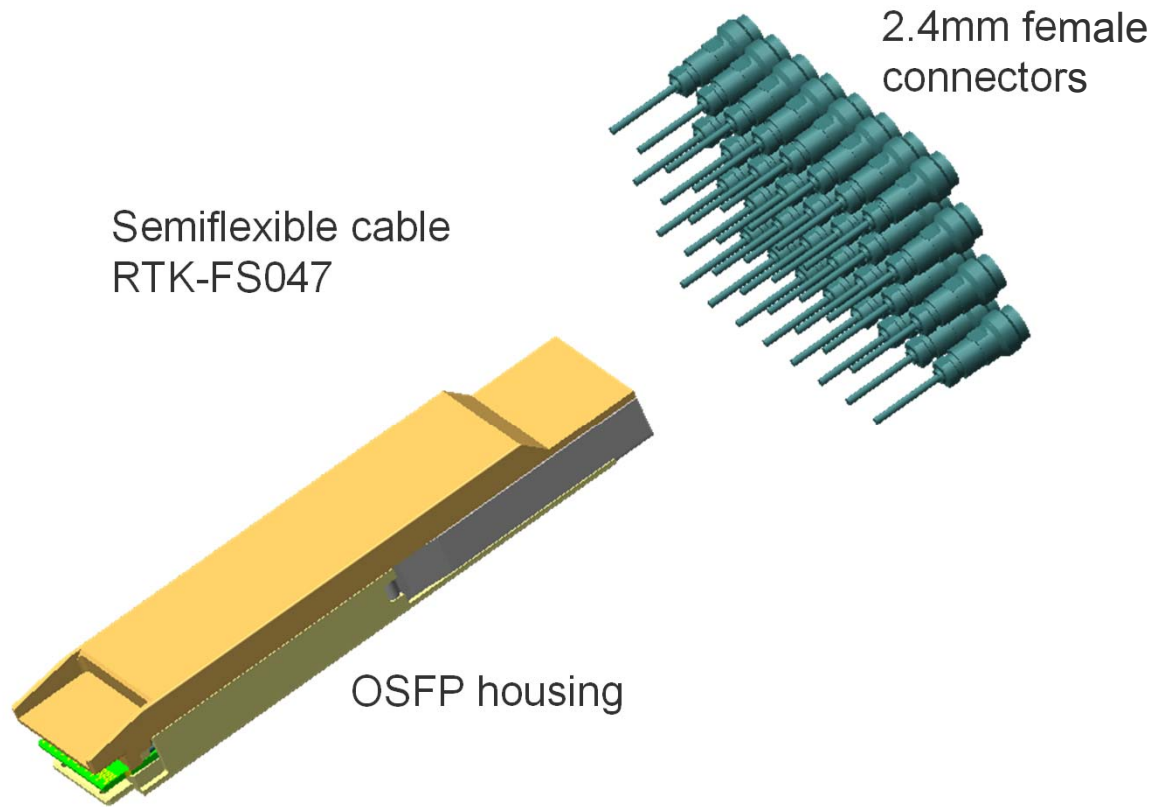
**Rosenberger**

Host Probing Adapter for OSFP



- Design overview
- Definition of simulation details
- Simulation results
- Draft electrical specification

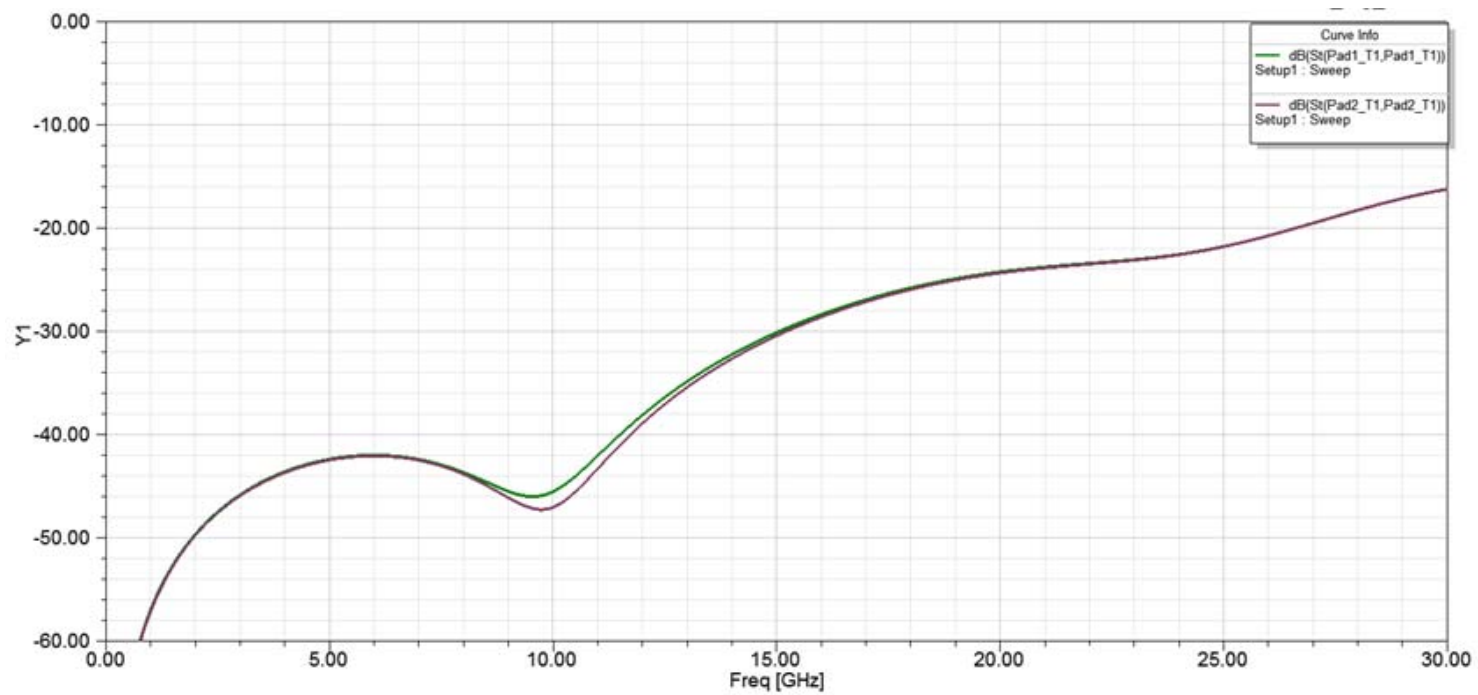




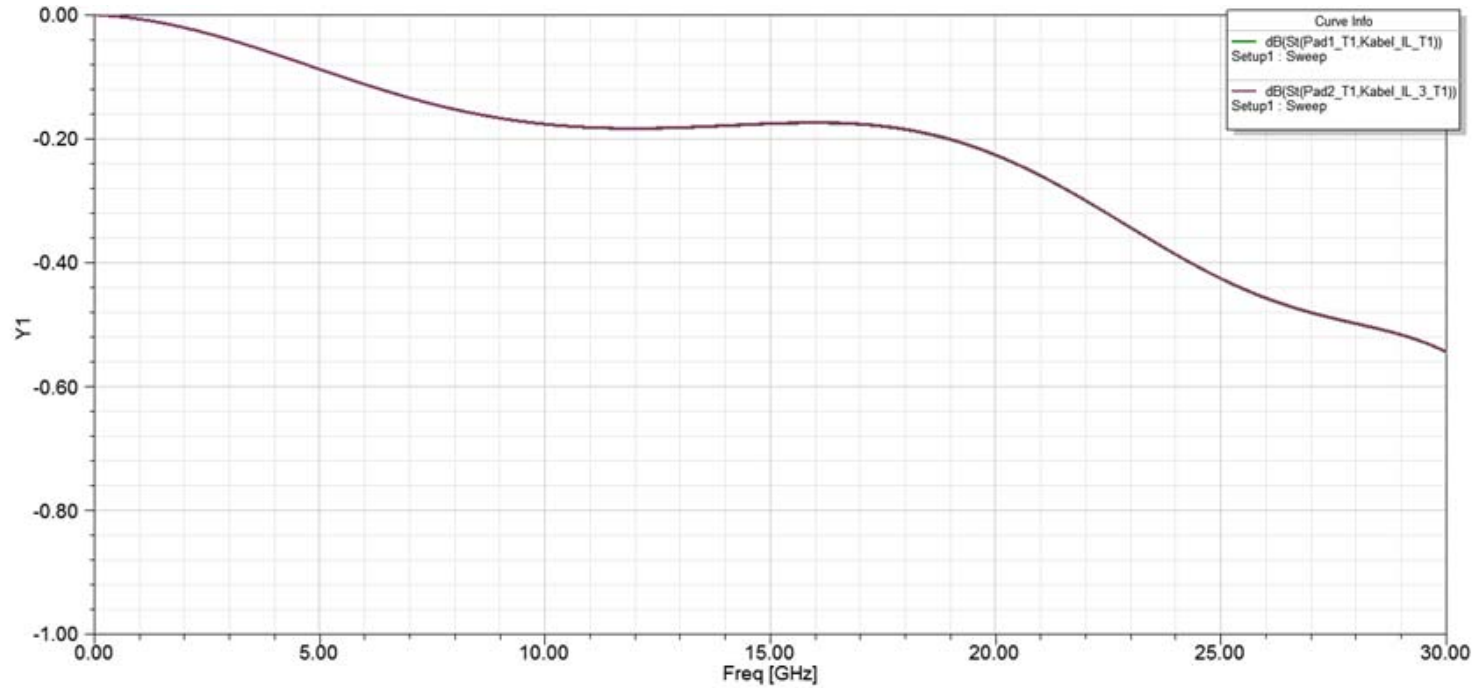
- Frequency range
  - DC-50GHz
- Return loss target
  - ~ 10dB@50GHz
- Impedance of signal traces: 95Ohm (differential)

- Cable type RTK-FS047
- Flexscreen cable
- 50Ω impedance
  - Transition from 95Ω differential impedance is required
- Insertion loss spec
  - 30GHz: 0.85 dB/m

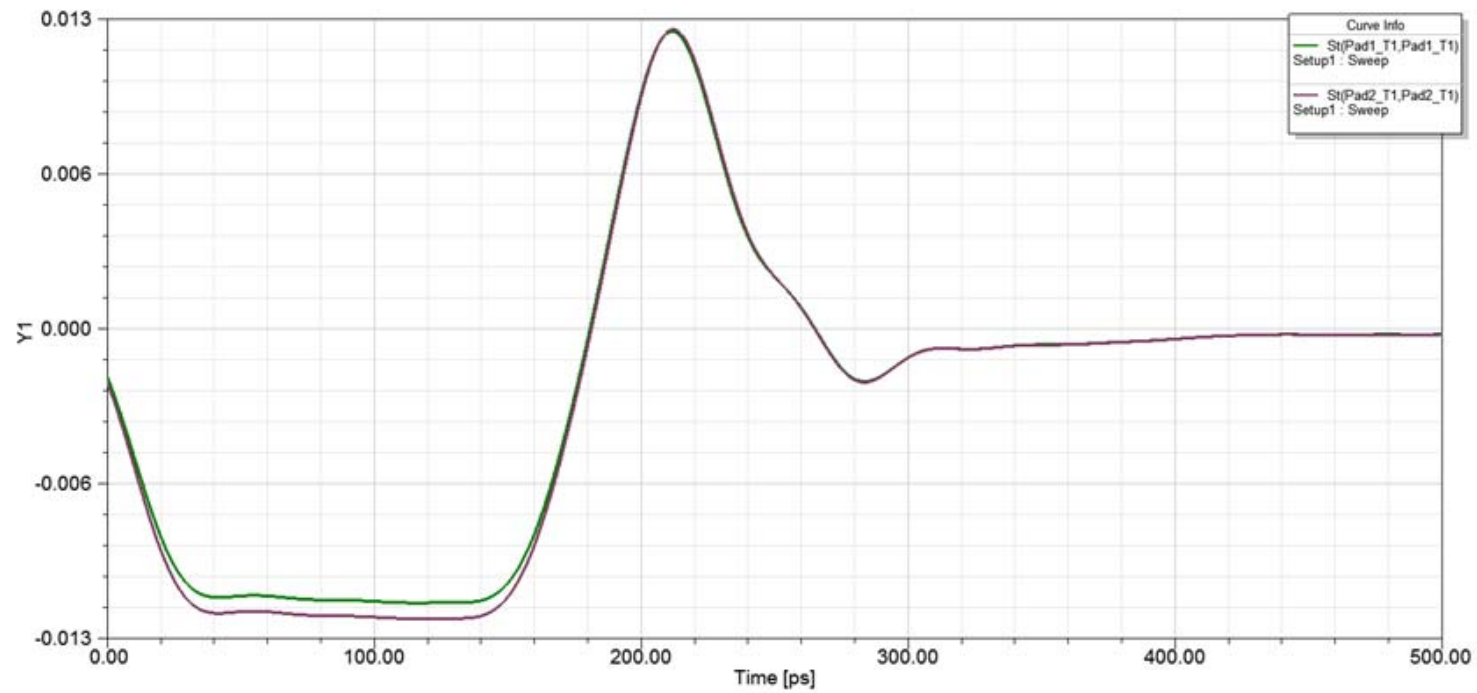
- Return loss



- Insertion loss

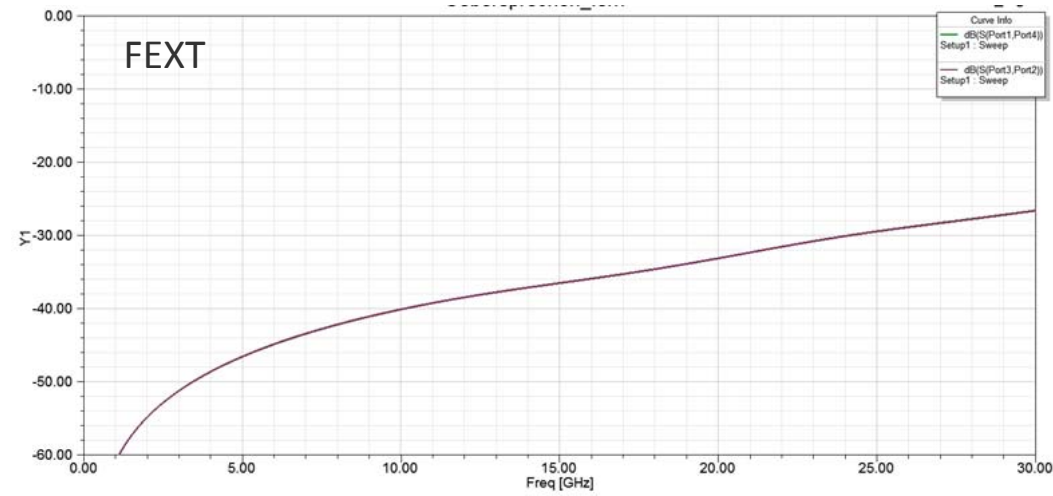
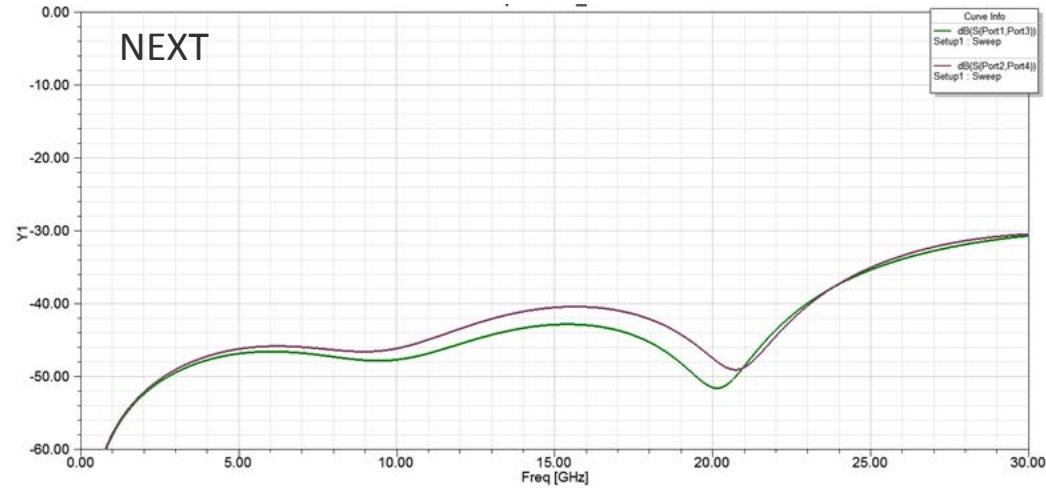


- Time domain





# X-talk: With Screening Shield



- Frequency to 30 GHz
- Returnloss better 15dB @ 30GHz
- Insertion loss per channel < 2.3dB @ 30GHz (1.5dB @ 17GHz) including PCB, cable and connector.
- Skew pairwise < 2ps
- X-talk better 30dB