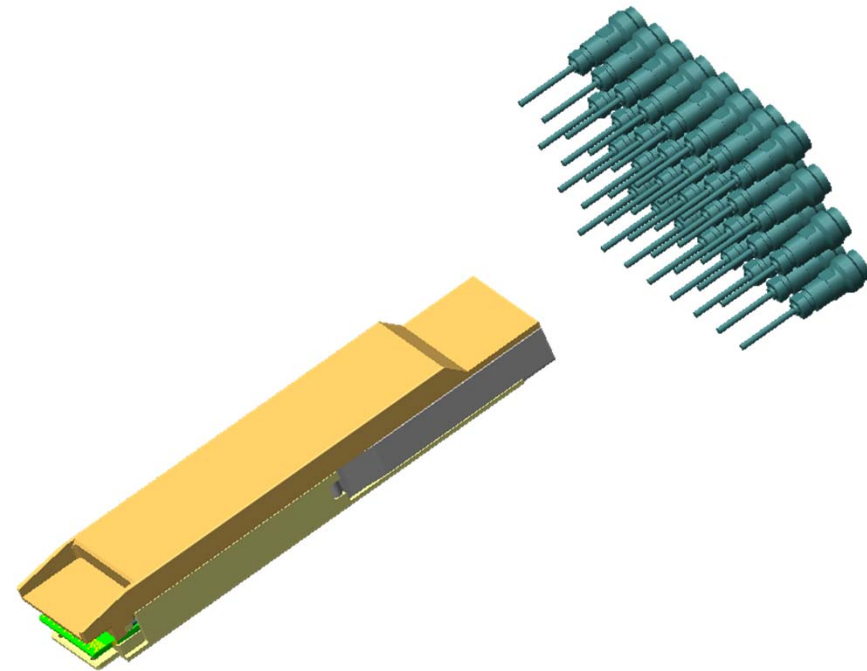


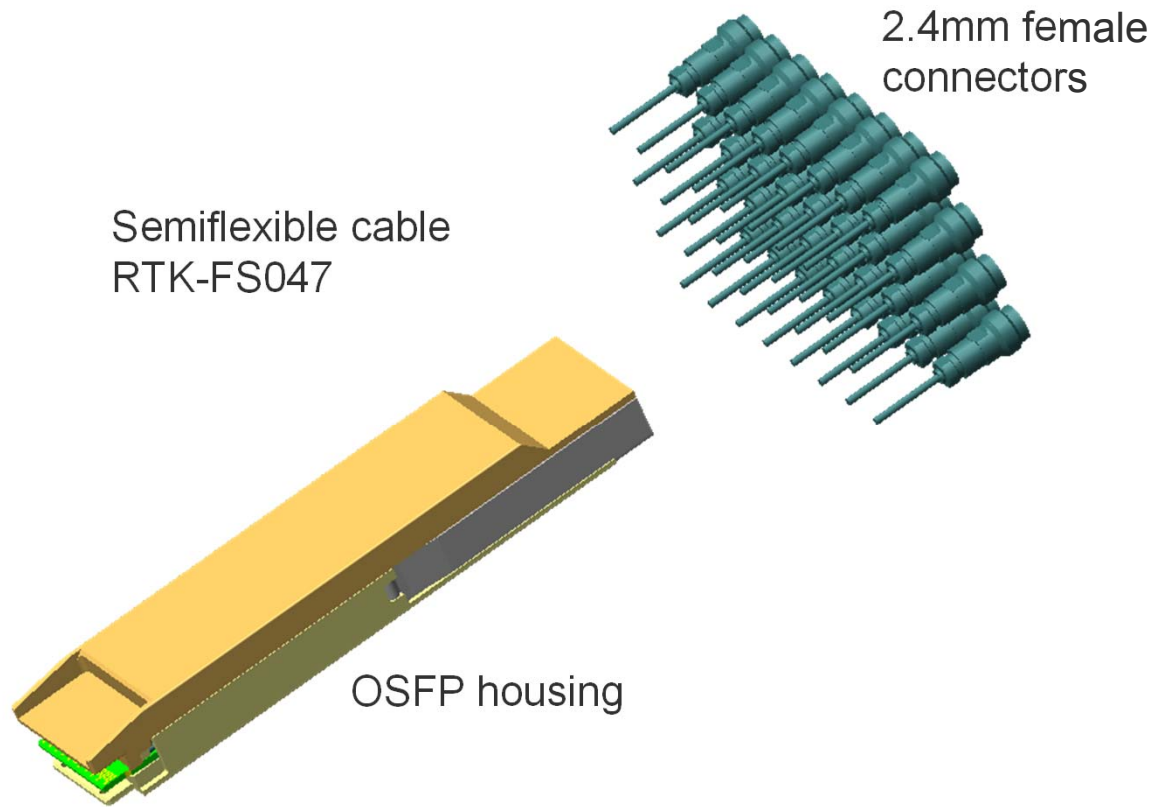


Rosenberger

Host Probing Adapter for OSFP

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

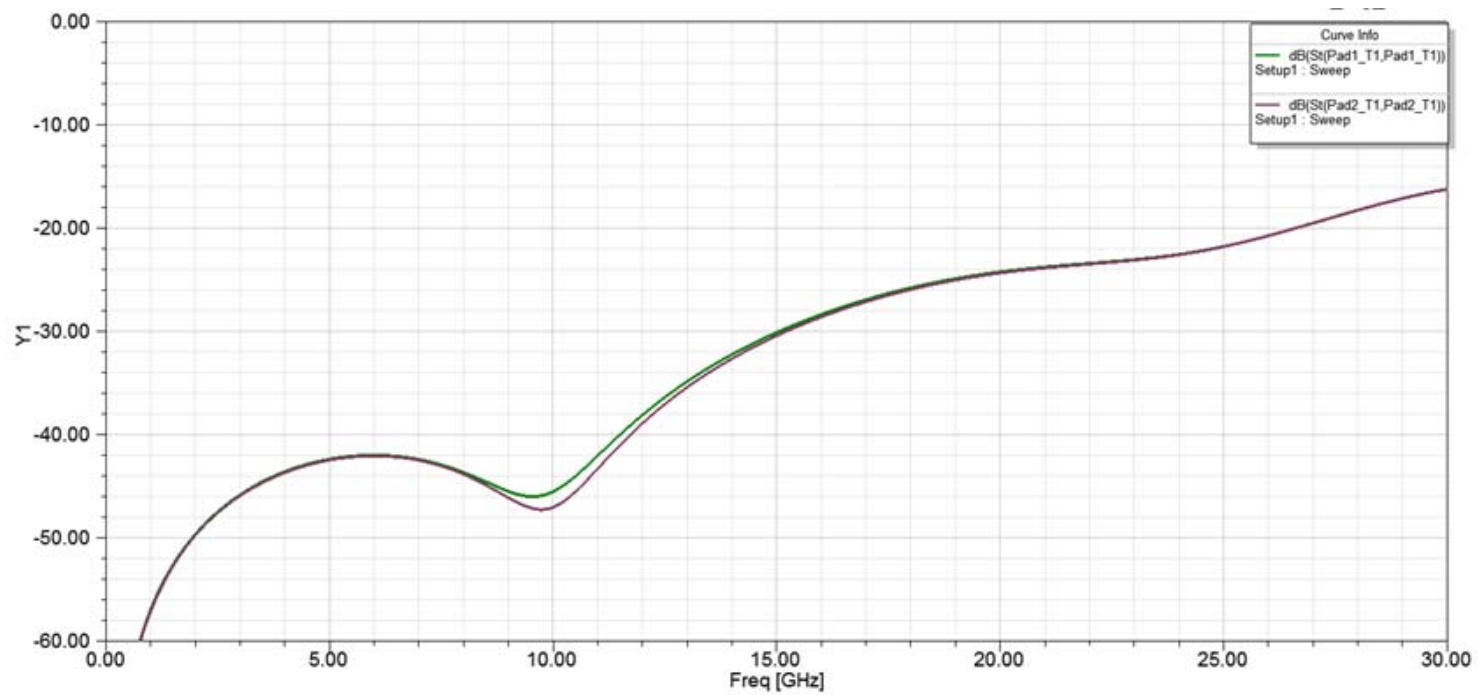




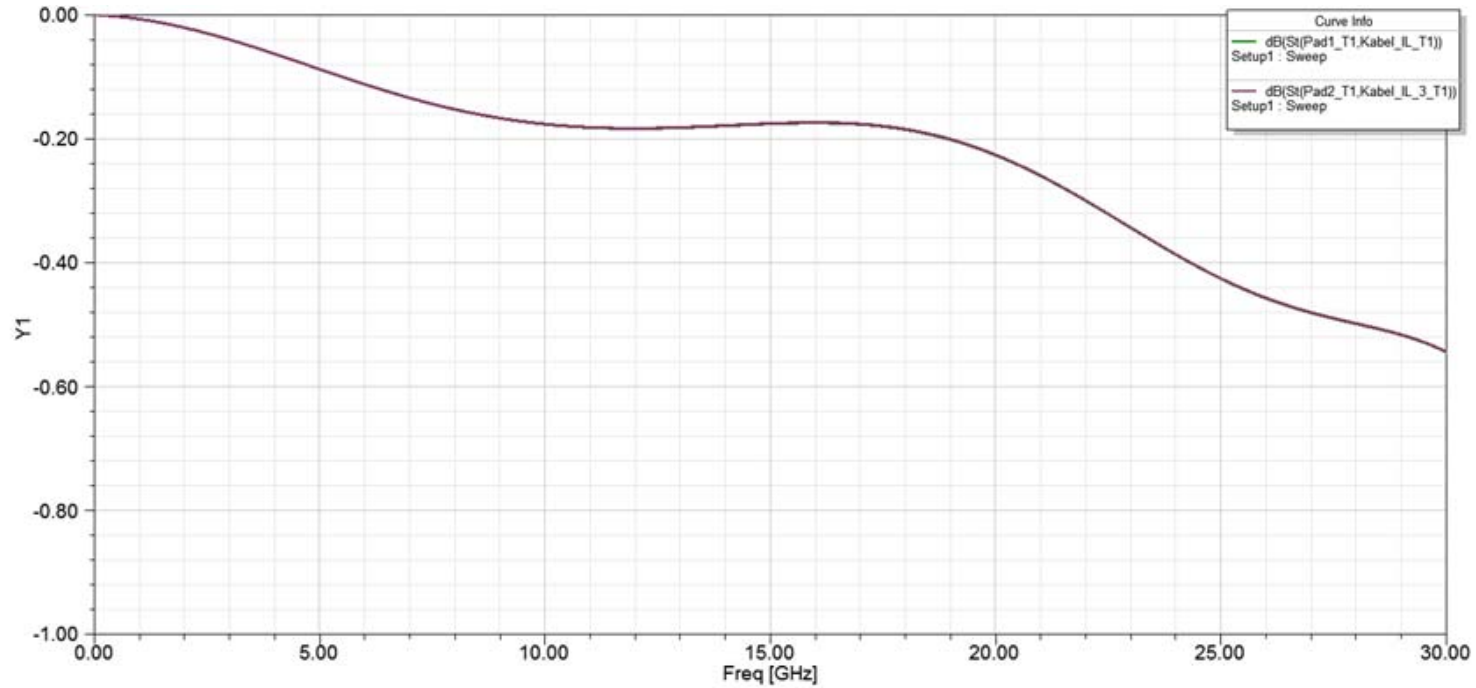
- Frequency range
 - DC-50GHz
- Return loss target
 - ~ 10dB@50GHz
- Impedance of signal traces: 95Ohm (differential)

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

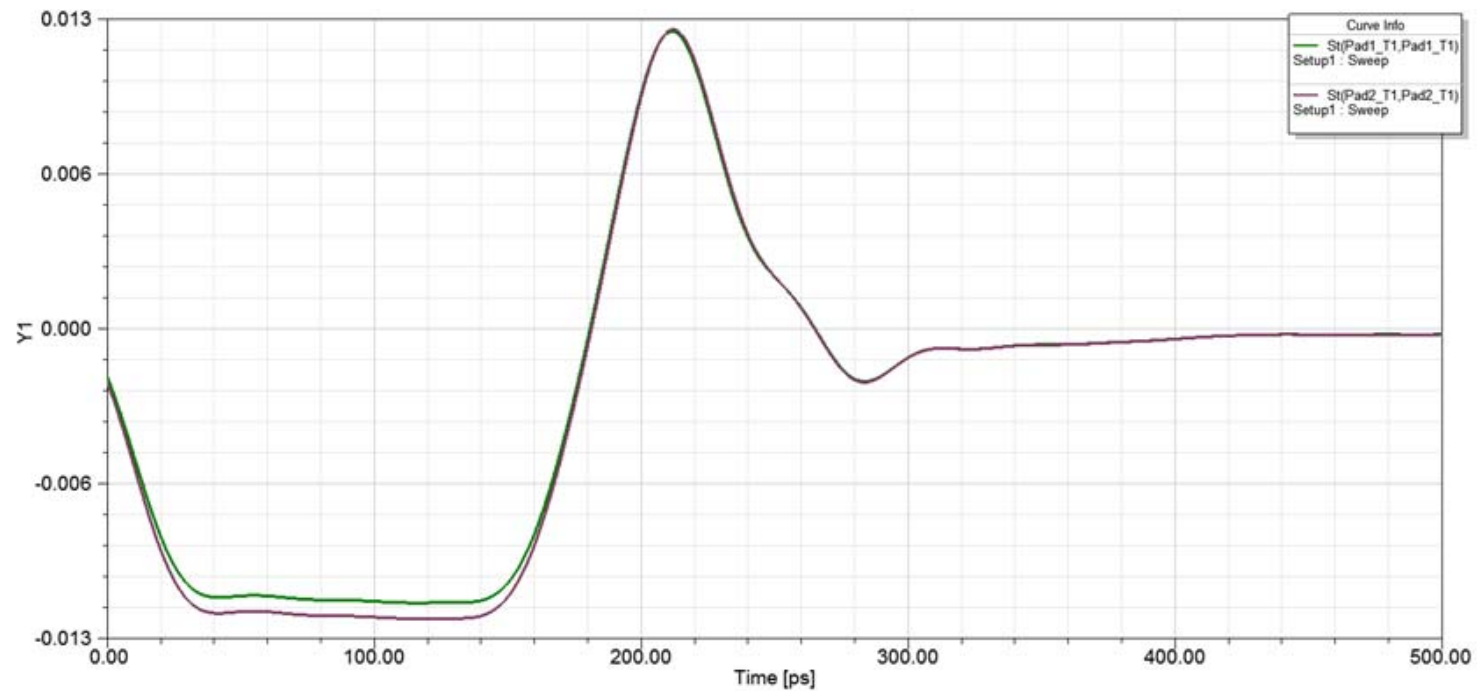
- Return loss



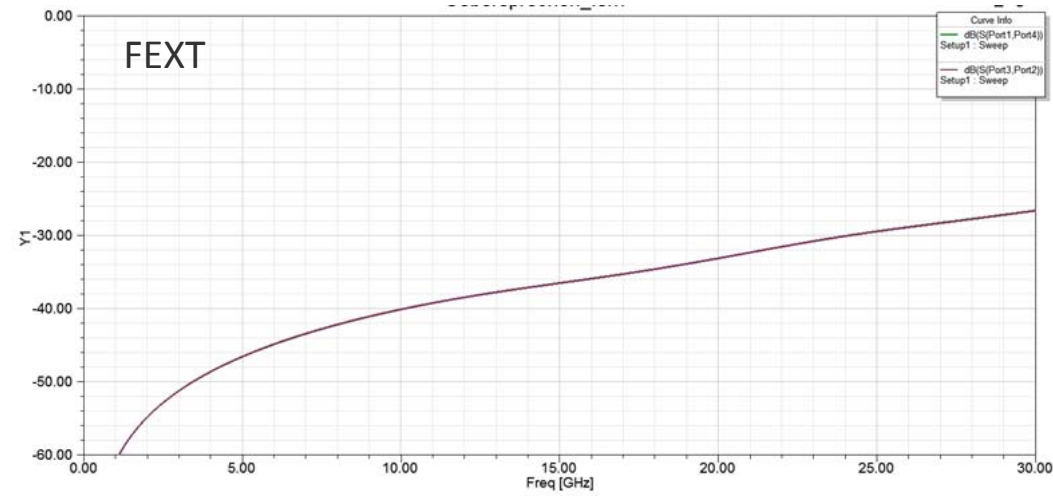
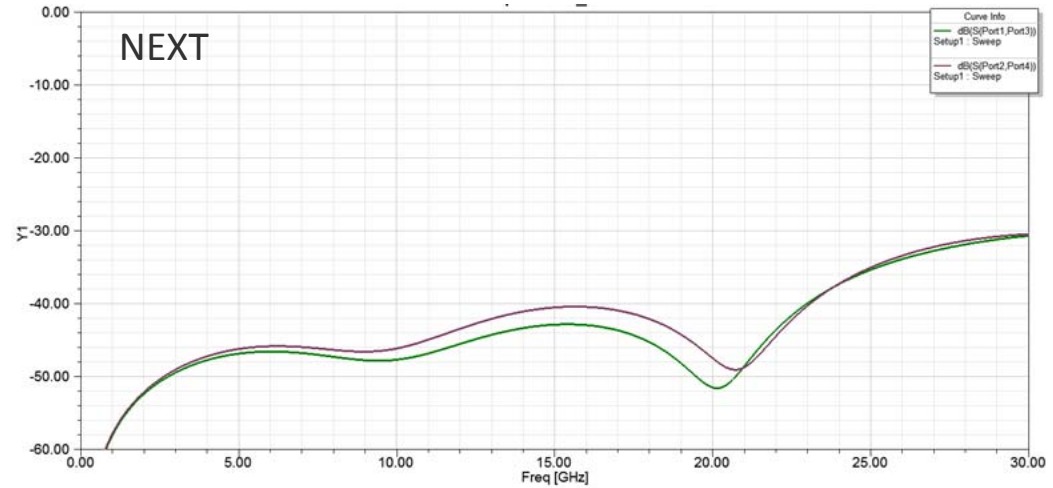
- Insertion loss



- 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