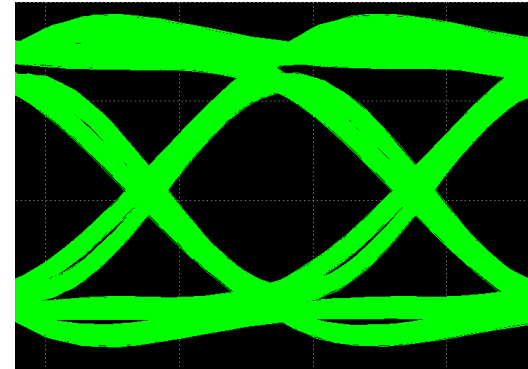
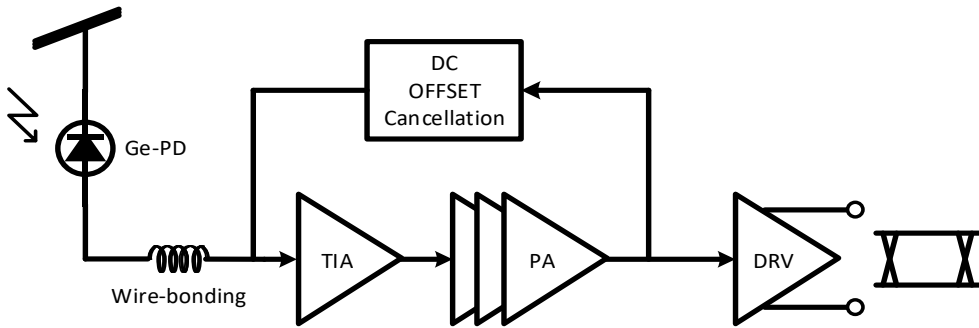
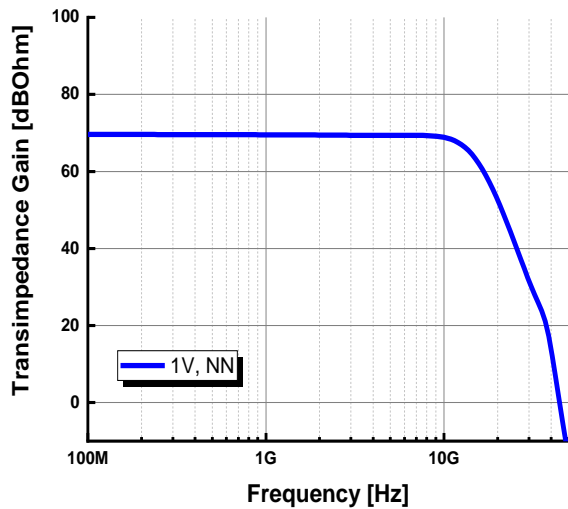


# Low-power optical receiver front-end

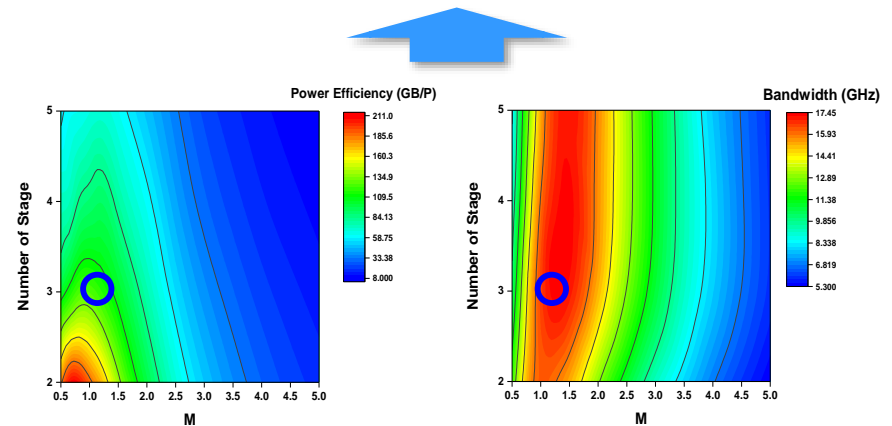
- 25 Gb/s Low-power ORx front-end using inverter-based TIA & PA



< -14 dBm & 25 Gb/s Eye Simulation >



< Rx Frequency response >

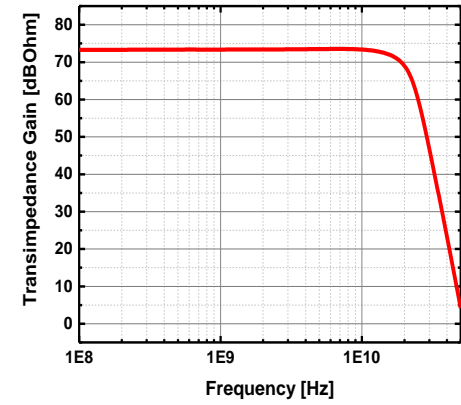
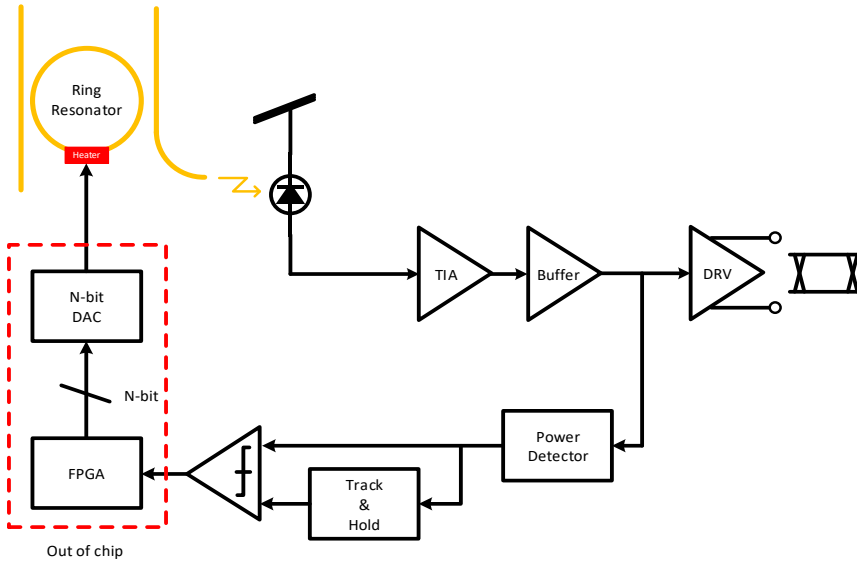


< PA Power efficiency & BW optimizing >

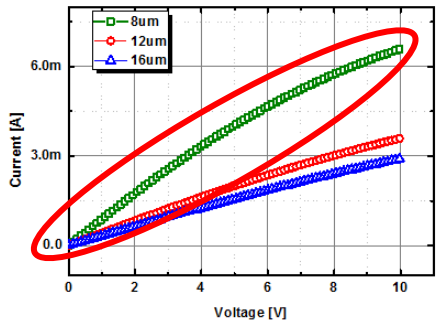
✓ **110 fJ/b** power efficiency @ 1V supply

# 4 channel WDM receiver

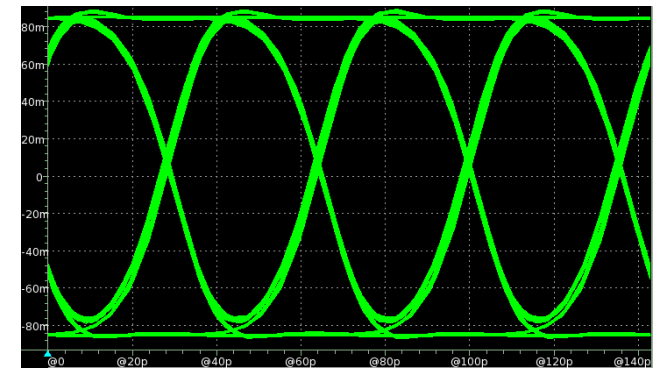
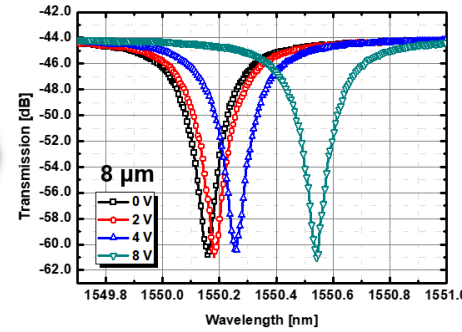
- 4 X 25 Gb/s WDM receiver with wavelength monitoring circuit



< Rx Frequency response >



< Thermal tuning of ring resonator >



< -10 dBm & 25 Gb/s Eye Simulation >