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website!

UNIVERSAL FREQUENCY-COMB PLATFORM

for datacenter communications



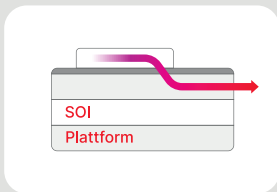
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2 OPTIONS



QD-COMB LASER

FSR = 25 – 100 GHz



μ-COMB LASER

FSR = 0.1 – 1 THz

DATA-TRANSCEIVER DEMONSTRATOR

SOI PIC Plattform



Comb Laser Source

+



Modulation

+



WDM Amplification

COMB LASER

- ▶ Up to 64 lines per laser
- ▶ O-band wavelength
- ▶ RIN < -135 dB/Hz
- ▶ Ideal for high data rates

COMB SOA

- ▶ WDM amplification after modulation
- ▶ Compensation for SOI Losses
- ▶ High Efficiency
- ▶ Low Bit Error Rate (BER)