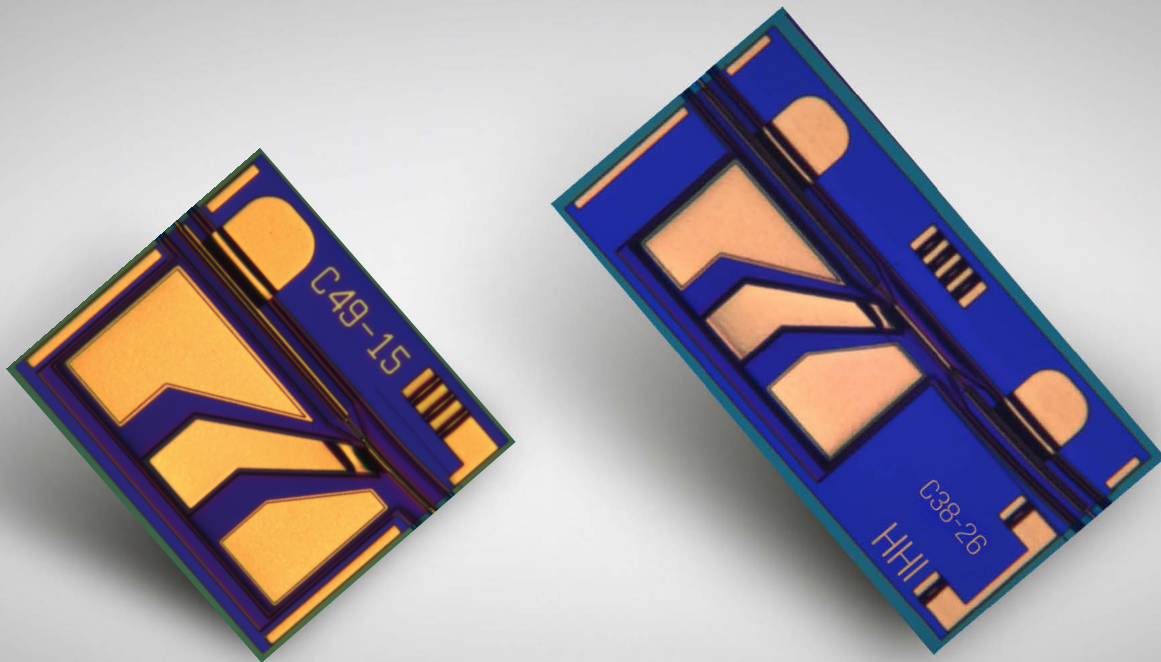


# ELECTROABSORPTION-MODULATED LASERS (EML) FOR 100G / 200G / 400G



## AT A GLANCE

High speed InGaAlAs EML transmitter chips for direct detection schemes



### Features

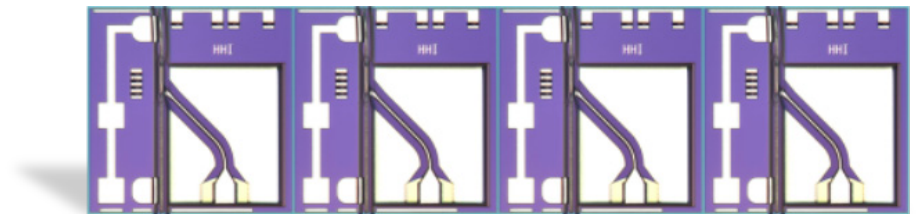
- Wavelengths in O-Band, C-Band, L-Band
- Modulation bandwidth > 50 GHz
- Operation up to 100 Gb/s NRZ, 200 Gb/s PAM4
- Small footprint
- Single chips and 4-arrays, 8-arrays
- Monolithically integrated amplifier section as high power option
- Typical operation temperature: 50°C
- Extended operation temperature: 20°C to 85°C
- fully customizable

### Applications

- Datacom / Telecom
- Analog photonic transmitter
- CATV

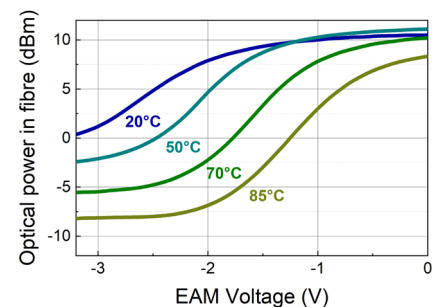
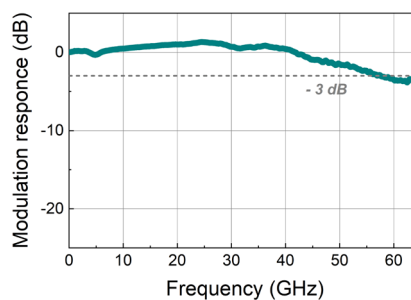
### Device variants

- Individual EML with small footprint 360  $\mu\text{m}$  x 250  $\mu\text{m}$
- EML with integrated semiconductor optical amplifier (SOA)
- N-fold EML-arrays with on-chip RF routing

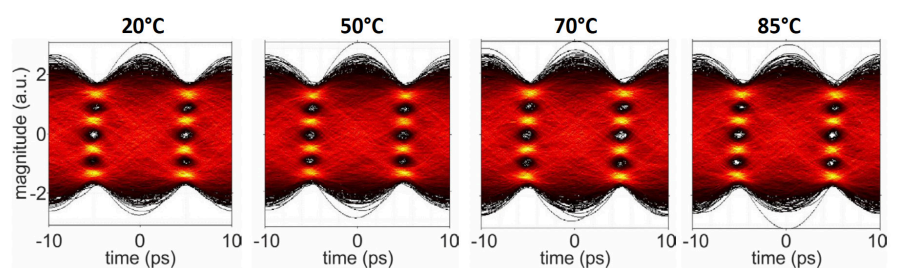


### Typical performance

- > 10 mW facet output power
- > 50 GHz modulation bandwidth @50°C



### 200 Gb/s PAM4 Optical Eyes



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