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

• Datacom/Telecom
• Analog photonic transmitter
• CATV

Feautures
- Wavelengths in O-, C-, 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
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AT A GLANCE
High speed InGaAlAs EML transmitter chips for direct detection schemes
Device variants

- Individual EML with small footprint 360 µm x 250 µm
- 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