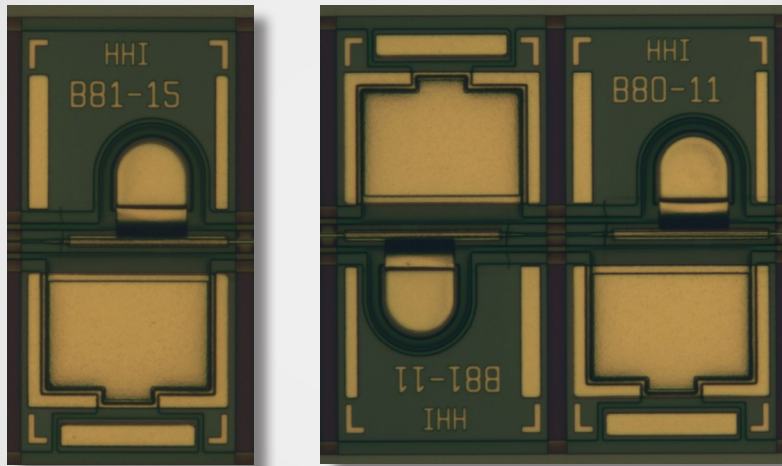


DIRECTLY MODULATED LASER FOR UNCOOLED 28 GBPS AND COOLED 56 GBPS



AT A GLANCE

High speed DML transmitter for direct detection schemes

Features

- Wavelength in O-band
- **Uncooled DML:**
Operation temperature: 20 °C to 70 °C:
Modulation Bandwidth > 25 GHz
Output power > 30 mW
Threshold current < 6 mA
- **Dual DFB (Passive Feedback Laser):**
Operation temperature: 20°C
Modulation Bandwidth > 55 GHz
Output power > 30 mW
Threshold current < 10 mA
- Customized variants possible

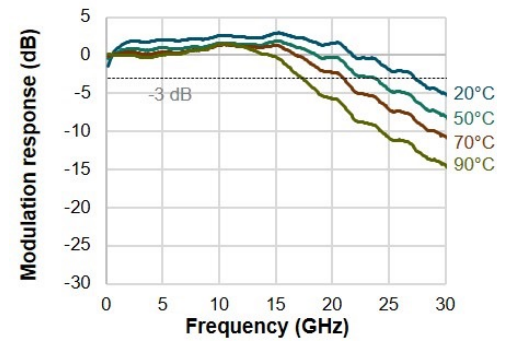
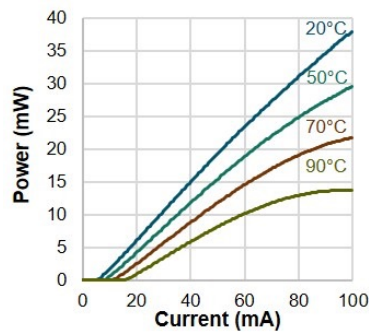
Applications

- Telecom/Datacom
- Analog photonic transmitter
- Gas sensing

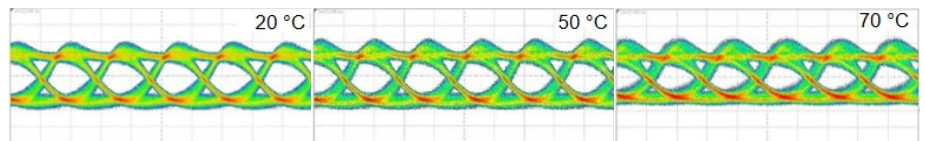
Technical Background

- Active layers based on InAlGaAs multi quantum wells
- Aluminum free output facets

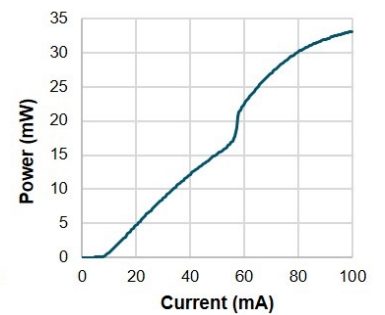
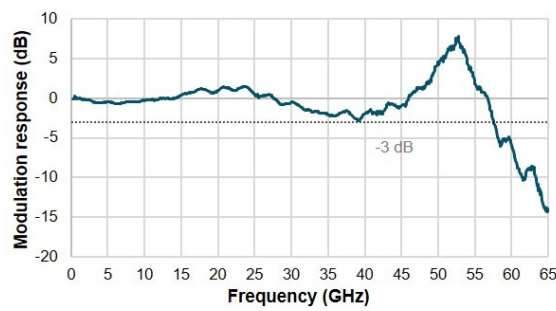
Uncooled 28Gbps DML



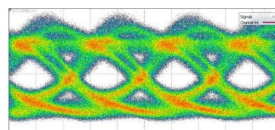
Example of 28 Gbps NRZ optical eyes



56 Gbps Dual DFB



Example of 56 Gbps NRZ optical eyes



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