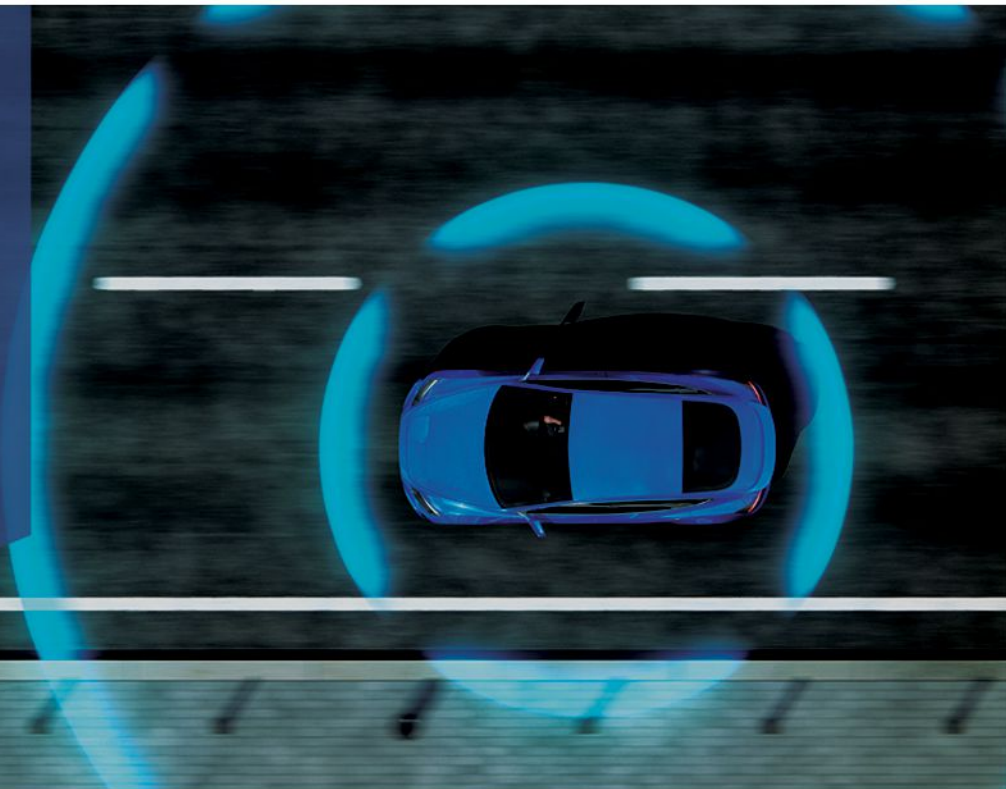


# Light Sources for Automotive Lidar



## Features & Benefits

Semiconductor Optical Amplifier (SOA)

- High optical gain of >20dB at 40°C
- High saturation output power of >9dBm
- Broadband over C-band
- Excellent beam divergence for coupling to silicon photonics waveguide
- P-side up assembly electrode configuration
- Designed for booster amplification applications



## Features & Benefits

Gain Chip (CoS)

- High optical gain in C-band
- Optical coating of HR/AR on facets
- Angled front facet for back-reflection suppression
- Excellent beam divergence for coupling to fiber
- P-side up assembly electrode configuration
- Designed as laser gain source for external cavity laser system



## Product Specifications

SOA 1550 nm

- |                               |         |
|-------------------------------|---------|
| • Centre wavelength           | 1550nm  |
| • Bandwidth FWHM              | >35nm   |
| • Power @ 200mA               | >14 mW  |
| • Ripple                      | ≤0.5 dB |
| • Polarization Dependent Gain | ≥15 dB  |



## Product Specifications

Gain Chip 1550 nm

- |                      |        |
|----------------------|--------|
| • Centre wavelength  | 1550nm |
| • Optical Exit Angle | 23°    |
| • Power @ 350mA      | ≥20 mW |

## Why DenseLight?



Established Manufacturing facility since 2000.



Integrated Light Module (driver + light source) production lines in Singapore for assembly of ASE & Wind Lidar Seed Lasers.



Wafer Fabrication, assembly & testing plant in Singapore.



150+ customers in 26 countries.

## Get in Touch



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