

# 940nm, 200μm, Conduction-Cooled, Single Bar, Fiber-Coupled Module

## Features

- High coupling efficiency
- High brightness
- Sealed housing
- Standard fiber coupling (HP-SMA) for 200μm NA 0.22



## Device Specification

| Optical Parameters <sup>1</sup>      | Units |       |
|--------------------------------------|-------|-------|
| Center Wavelength Range <sup>3</sup> | nm    | 940   |
| Center Wavelength Tolerance          | nm    | ±3    |
| Output Power <sup>2</sup>            | W     | 30    |
| Spectral Width (FWHM)                | nm    | 5     |
| Slope Efficiency                     | W/A   | >0.80 |
| Wavelength Temp. Coefficient         | nm/°C | ~0.34 |

| Fiber Parameters                |                                          |      |
|---------------------------------|------------------------------------------|------|
| Numerical Aperture <sup>5</sup> | NA                                       | 0.22 |
| Fiber Core Diameter             | μm                                       | 200  |
| Fiber Connector                 | HP-SMA 905 with Free Standing Fiber Tips |      |

| Electrical Parameters <sup>1</sup> |   |      |
|------------------------------------|---|------|
| Power Conversion Efficiency        | % | >45  |
| Threshold Current ( $I_{TH}$ )     | A | <7.0 |
| Operating Current ( $I_{OP}$ )     | A | <50  |
| Operating Voltage ( $V_{OP}$ )     | V | <1.9 |

| Thermal Parameters                    |    |            |
|---------------------------------------|----|------------|
| Operating Temperature <sup>3, 4</sup> | °C | +20 to +30 |
| Storage Temperature <sup>4</sup>      | °C | 0 to +55   |
| Recommended Heatsink Capacity         | W  | >70        |

| Optional                                           |
|----------------------------------------------------|
| True unpolarized output is available as an option. |

<sup>1</sup>Data at 25°C cold plate temperature.

<sup>2</sup>Reduced lifetime if used above nominal operating conditions.

<sup>3</sup>Others available upon request.

<sup>4</sup>A non-condensing environment is required for storage and operation below the ambient dew point.

<sup>5</sup>Low numerical aperture option available at 0.12 for 400μm.

**DILAS**  
The diode laser company.

(Optional monitor photo diode and temperature sensor/NTC)

