Vertical diode laser stacks:
 yılında actively cooled, with collimation, 9xx nm

Designs
- 210436126 (4 submounts)
- 210436226 (6 submounts)
- 210436326 (8 submounts)
- 210436426 (10 submounts)
- 210436526 (12 submounts)

Features
- High optical output power of 50 W cw per bar after collimation (in fast and slow axis)
- Wavelengths: 938 and 976 nm
- High efficiency, low divergences
- Lifetime > 10,000 h, high reliability

Applications
- Pumping of solid-state lasers and fiber lasers
- Material processing
- Medical applications (e.g. hair removal)
## Specifications (start of life)

### Operation Mode
- **Maximum Optical Output Power**: 
  - 200 W
  - 300 W
  - 400 W
  - 500 W
  - 600 W
  - 200 W
  - 300 W
  - 400 W
  - 500 W
  - 600 W

### Number of Submounts
- 4
- 6
- 8
- 10
- 12

### Power per Submount after Collimation
- 4
- 6
- 8
- 10
- 12

### Center Wavelength at 25 °C
- 938 nm
  - 938 nm
  - 938 nm
  - 938 nm
  - 976 nm
  - 976 nm
  - 976 nm

### Center Wavelength Variation at 25 °C
- 5 nm
  - 5 nm
  - 5 nm
  - 5 nm
  - 5 nm
  - 5 nm

### Typical Spectral Bandwidth (FWHM)
- 3 nm
  - 3 nm
  - 3 nm
  - 3 nm
  - 3 nm

### Maximum Spectral Bandwidth (FWHM)
- 5 nm
  - 5 nm
  - 5 nm
  - 5 nm
  - 5 nm

### Typical Operation Current
- 60 A
- 60 A
- 60 A
- 60 A
- 64 A

### Maximum Operation Current
- 66 A
- 66 A
- 66 A
- 66 A
- 70 A

### Typical Threshold Current
- 6 A
- 6 A
- 6 A
- 6 A
- 6 A

### Maximum Threshold Current
- 9 A
- 9 A
- 9 A
- 9 A
- 9 A

### Typical Slope
- 3.8 W/A
- 3.5 W/A
- 3.5 W/A
- 3.5 W/A
- 3.5 W/A

### Minimum Slope
- 3.3 W/A
- 3.1 W/A
- 3.1 W/A
- 3.1 W/A
- 3.1 W/A

### Maximum Operating Voltage
- 8 V
- 12 V
- 15 V
- 19 V
- 23 V

### Fast Axis Divergence (Full Power)
- < 0.5°

### Slow Axis Divergence (Full Power)
- < 4°

### Operation Conditions
- Cleanroom class ISO 5, non-condensing atmosphere

### Expected Lifetime
- > 10,000 h (constant current)

### Cooling
- **Number of Submounts**
  - 4
  - 6
  - 8
  - 10
  - 12
- **Flow Rate**
  - 1.7 l/min
  - 2.3 l/min
  - 3.0 l/min
  - 3.6 l/min
  - 4.3 l/min
- **Flow Rate Tolerance**
  - ± 10 %
- **Water Temperature**
  - 15 ... 35 °C
- **Maximum Inlet Pressure**
  - 400 kPa
- **Pressure Drop**
  - < 200 kPa
- **Water Quality**
  - Deionized 2 ... 6 μS/cm, mixed bed ion exchanger, particle filter < 25 μm (not included)

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**See general user information!**

Options on request: For additional designs or specifications please visit our website: [www.jenoptik.com](http://www.jenoptik.com)