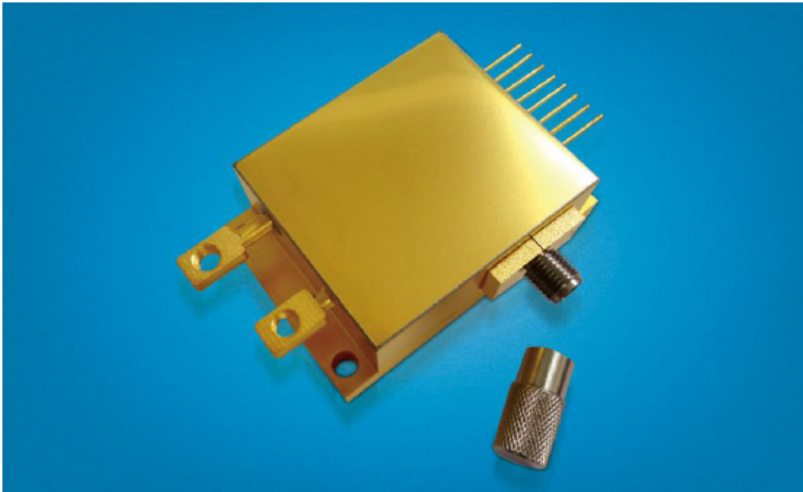


S9XDANC-30W-FS

Product Information



Key Features:

- ◆ 30W output power
- ◆ Standard fiber coupling for 200 μ m NA 0.22
- ◆ 915nm,940nm,976nm wavelength
- ◆ Compact package

Options:

- ◆ 650nm aiming beam
- ◆ Photo diode (PD)
- ◆ Fiber detector



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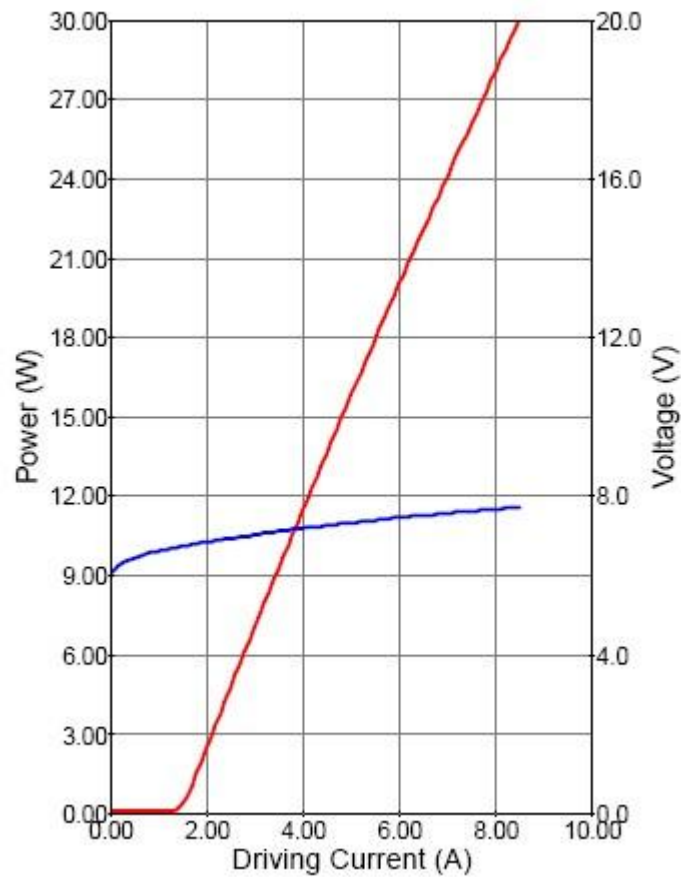
9xxnm High Brightness Diode Laser

| Specifications (25°C) | | Symbol | Unit | K9XDANC-30.00W-FS |
|-----------------------|--|-----------------|---------------|--------------------|
| Optical data | CW-output power | P_o | W | 30 |
| | Center wavelength | λ_c | nm | 915,940,976 |
| | Tolerance of λ | - | nm | $\pm 3, \pm 10$ |
| | Spectral width (FWHM) | $\Delta\lambda$ | nm | <3 |
| | Temperature drift of λ | - | nm/°C | ~0.3 |
| Connector data | Designed for fiber core diameter | W_c | μm | 200 |
| | Designed for fiber numerical aperture | NA | - | 0.22 |
| | Fiber connector | - | - | SMA-905 |
| Electrical data | Operation current | I_{op} | A | 9.5 |
| | Threshold current | I_{th} | A | 0.5 |
| | Conversion efficiency | η | % | 48 |
| | Slope efficiency | η_D | W/A | 3.5 |
| | Operation voltage | V_{op} | V | 7 |
| | Reverse voltage | V_{re} | V | <6 |
| PD data | Current | I_{mo} | mA | <8.0 |
| Aiming beam data | Output power | P_a | mW | >2 |
| | Wavelength | λ_a | nm | 650 ± 10 |
| | Voltage | V_a | V | 2.2 ⁽¹⁾ |
| | Current | I_a | mA | <30 |
| Others | Operation temperature | T_{op} | °C | 10~30 |
| | Storage temperature | T_{st} | °C | -20~+80 |
| | Lifetime | MTBF | h | >10,000 |
| | Dimensions (fiber and connector not included) | - | mm | 52.0×35.0×20.0 |
| | Lead soldering temperature | T_{is} | °C | 260(10 sec.) |

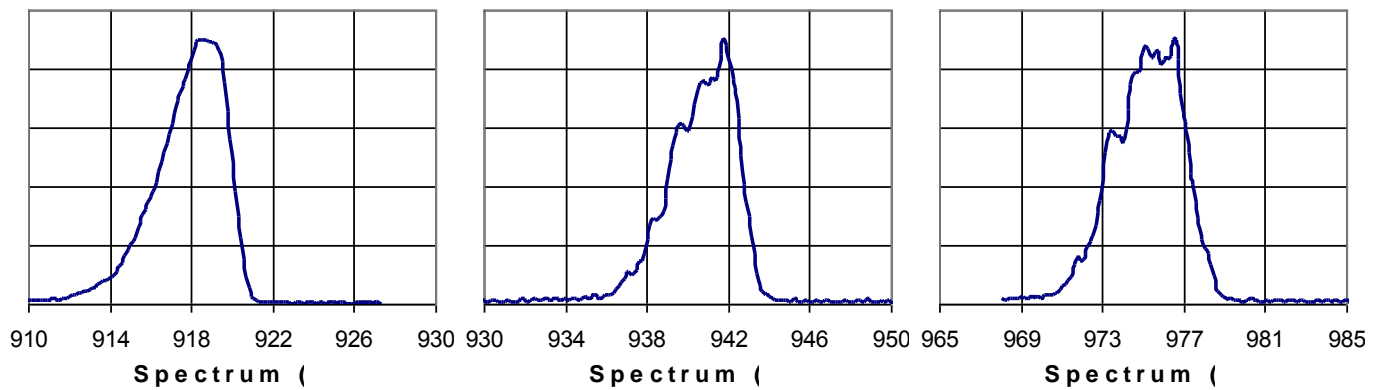
(1) Optional 5V DC input.

9xxnm High Brightness Diode Laser

Characteristics

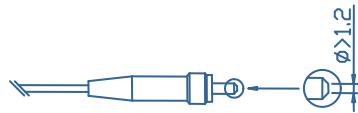
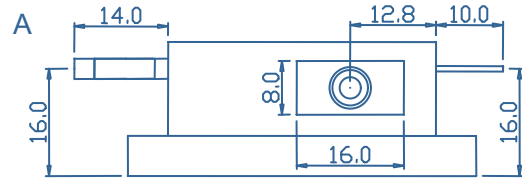
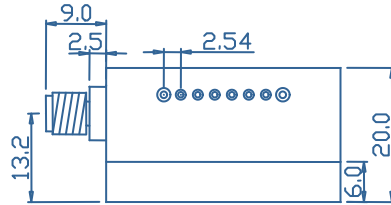


Typ. spectrum (T=25°C)



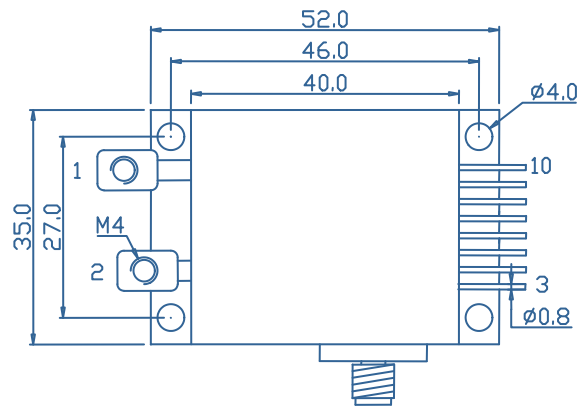
9xxnm High Brightness Diode Laser

Package Dimensions (mm)



※The end of connector should be > 1.2mm

| Pin | Function | Pin | Function |
|-----|---------------------------|-----|------------------------------|
| 1 | LD (-) | 6 | Aiming Beam LD (+) PD (N) |
| 2 | LD (+), Case | 7 | Aiming Beam LD (-) |
| 3 | FCD LED (+) | 8 | PD (P) |
| 4 | FCD LED (-) FCD PD (P) | 9 | Thermistor |
| 5 | FCD PD (N) | 10 | Thermistor |



OPERATING NOTES

- Avoid eye exposure to direct or scattered radiation.
- ESD precautions must be taken.
- Please connect pins to wires by solder instead of using socket when operation current is higher than 6A. Soldering point should be close to the root of the pins. Soldering temperature should be lower than 260°C and time shorter than 10 second.
- Use constant current power supply. Avoid surge current.
- Laser diode must be used according to the specifications.
- Laser diode must work with good cooling.
- Operation temperature is 10°C~ 30°C.
- Storage: -20°C~ +80°C, all pins short-circuit.

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