



Features:

- ◆ 969nm wavelength
- ◆ 160W output power
- ◆ 106.5μm fiber core diameter
- ◆ 0.22 NA
- ◆ 1020nm~1200nm feedback protection

Applications:

- ◆ Solid-state laser pumping

969nm 160W High Power Wavelength-Stabilized Fiber Coupled Diode Laser RPK969S-L9-160.0W-10522-HP

| Specifications (25℃) | | Symbol | Unit | RPK969S-L9-160.0W-10522-HP | | |
|-----------------------------|---|-------------------|------|----------------------------|---------|---------|
| | | | | Minimum | Typical | Maximum |
| Optical Data ⁽¹⁾ | CW Output Power | P _O | W | 160 | - | - |
| | Center Wavelength | λ _c | nm | 969±0.5 | | |
| | Spectral Width(FWHM) | Δλ | nm | - | 1 | - |
| | Wavelength Locked range ⁽²⁾ | - | Å | 3Å~I _{op} | | |
| | Wavelength Shift with Temperature | Δλ/ΔT | nm/℃ | - | 0.03 | - |
| Electrical Data | Electrical-to-Optical Efficiency | PE | % | - | 48 | - |
| | Threshold Current | I _{th} | A | - | 0.9 | - |
| | Operating Current | I _{op} | A | - | 13.5 | 15 |
| | Operating Voltage | V _{op} | V | - | 24 | 26 |
| | Slope Efficiency | η | W/A | - | 13 | - |
| Fiber Data | Core Diameter | D _{core} | μm | - | 106.5 | - |
| | Cladding Diameter | D _{clad} | μm | - | 125 | - |
| | Numeric Aperture | NA | - | - | 0.22 | - |
| | Fiber Length | L _f | m | - | 2 | - |
| | Fiber Loose Tubing Diameter | - | mm | - | 3 | - |
| | Minimum Bending Radius | - | mm | 60 | - | - |
| | Fiber Termination | - | - | HP-SMA905 | | |
| Feedback Isolation | Wavelength Range | - | nm | 1020~1200 | | |
| | Isolation | - | dB | - | 30 | - |
| Others | ESD | V _{esd} | V | - | - | 500 |
| | Storage Temperature ⁽³⁾ | T _{st} | ℃ | -20 | - | 70 |
| | Lead Soldering Temp | T _{ls} | ℃ | - | - | 260 |
| | Lead Soldering Time | t | sec | - | - | 10 |
| | Operating Case Temperature ⁽⁴⁾ | T _{op} | ℃ | 23 | - | 27 |
| | Relative Humidity | RH | % | 15 | - | 75 |

(1) Data measured under operation output at 160W@25℃.

(2) Wavelength-Stabilized : Percentage of power in band of 967.5nm to 970.5nm ≥90%.

(3) A non-condensing environment is required for operation and storage.

(4) Operating temperature defined by the package case. Acceptable operating range is 23℃~27℃, but performance may vary.

