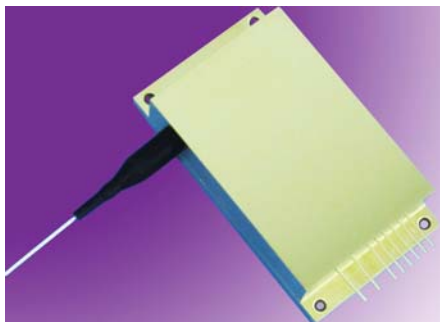


LDM-976-60-C1



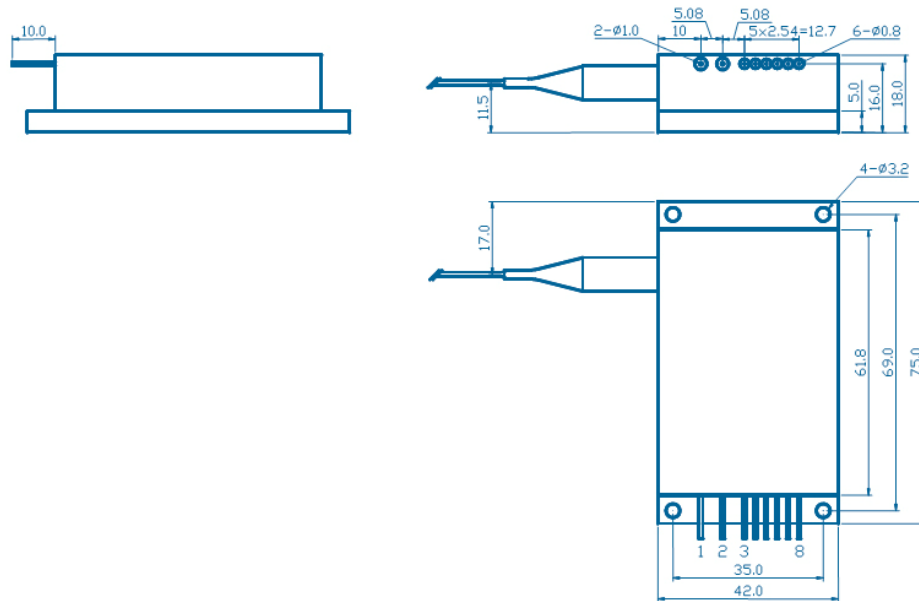
| Characteristics |
|--|
| Output Power 60W |
| Narrow line width<0.5nm |
| 976nm wavelength locked |
| Fiber Coupling 105μm |
| Fiber Core Dia. 0.22NA |
| Electrically isolated housing |
| Fiber laser feedback protection |
| Application |
| Fiber laser pumping |

| Parameter | | Symbol | Typical | Unit |
|------------|------------------------------------|-------------------------------|---------|---------|
| Optical | CW Out Power | P_{op} | 60 | W |
| | Center Wavelength | λ | 976±0.5 | nm |
| | Spectral Width (90% of Power) | $\Delta\lambda$ | <0.5 | nm |
| | Wavelength Shift width Temperature | $\Delta\lambda/\Delta T$ | 0.02 | nm / °C |
| | Wavelength Shift width Current | $\Delta\lambda/\Delta I_{op}$ | 0.05 | nm/A |
| | Feedback Protection(1030-1100nm) | FP | >40 | dB |
| Electrical | Threshold Current | I_{th} | 0.65 | A |
| | Operating current | I_{op} | 11 | A |
| | Operating Voltage | V_{op} | 14 | V |
| | Slop Efficiency | η_{es} | 5.8 | W / A |
| | Power Conversion Efficiency | η_{ep} | 40 | % |
| Fiber | Fiber Core Diameter | d_{core} | 105 | μm |
| | Fiber Cladding Diameter | d_{clad} | 125 | μm |
| | Fiber Buffer Diameter | d_{buffer} | 250 | μm |
| | Numerical Aperture | NA | 0.22 | - |
| | Fiber Length | L | 1.0 | m |

Other Parameters

| Parameter | Operating Temperature/°C | Operating Relative Humidity/% | Storage Temperature/°C | Storage Relative Humidity/% | Lead Soldering Temperature, 10s max/°C |
|-----------|--------------------------|-------------------------------|------------------------|-----------------------------|--|
| Min | 10 | - | -20 | - | - |
| Max | 40 | 75 | 80 | 90 | 250 |

Package Dimensions (mm)



| Pins and Functions | | | |
|--------------------|-----------|-----|------------|
| Pin | Function | Pin | Function |
| 1 | Laser(+) | 5 | Thermistor |
| 2 | Laser (-) | 6 | Thermistor |
| 3 | PD(N) | 7 | NA |
| 4 | PD(P) | 8 | NA |



976nm Diode Laser Characteristics (25°C)

