

# 0805 High Power Collimator

## HCL5001

### 2000 nm High Power Far Field Collimator, SM, 100 W

The HCL5001 has very low insertion loss, high return loss and high stability & reliability. It can be used for research, pump laser and Q-switched laser.

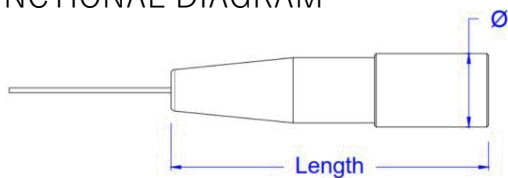
#### FEATURES

- High Return Loss
- Low Insertion Loss
- High Reliability & Stability

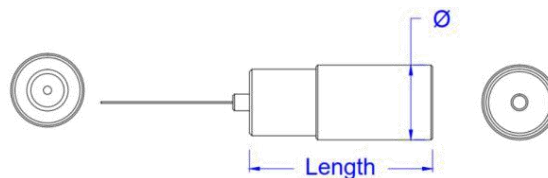
#### USE IN

- Research
- Pump Laser
- Q-Switched Laser

#### FUNCTIONAL DIAGRAM



with 3.0 mm loose tube



with bare fiber & 0.9 mm loose tube

|  |                             |
|--|-----------------------------|
| Stage                                      | Single Fiber                |
| Center Wavelength                          | 2000 nm                     |
| Working Distance                           | 0.5 W, 1 W or Specified     |
| Beam Diameter @1/e <sup>2</sup>            | 1.0 mm, 2.0 mm or Specified |
| Beam Divergence (Far Field)                | 2.5 mrad max.               |
| Beam Pointing Error                        | 1.0 deg max.                |
| Beam Roundness                             | 90% min.                    |
| Insertion Loss at 23°C (Free Space Output) | 0.4 dB typ.; 0.5 dB max.    |
| Return Loss at 23°C                        | 50 dB min.                  |
| Optical Power (CW)                         | 100 W                       |
| Peak Power for ns Pulse                    | 10 kW or Specified          |
| Tensile Load                               | 5 N max.                    |
| Operating Temperature                      | +10°C to +50°C              |
| Storage Temperature                        | 0°C to +60°C                |
| Fiber Type                                 | SM                          |

\* With connectors, the handling power is 1 W only, IL is 0.3 dB higher, RL is 5 dB lower, ER is 2 dB lower.