# Fixed Focus Large Beam Collimator 1550nm

## Product Description

Using air-gap cemented lenses, it can provide superior collimation performance compared to aspherical lenses and achromatic lenses. The low aberration lens group design achieves a beam closer to a Gaussian beam, with a smaller divergence angle and reduced wavefront error.

## Part Number

NIR-CLM-1550-6.9-0.016-SA

## Product features

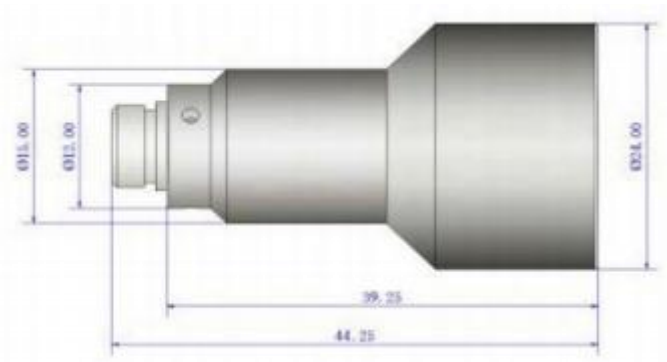
Multiple working wavelengths available、 Can be used for collimated emission or coupled reception、 Beam divergence angle (full angle) < 0.02°、 All lenses are coated with anti-reflection coating to minimize surface reflection 、 Standard FC/APC, FC/PC, SMA connectors

## ● Application area

Distributed fiber optic sensing (ψ-OTDR/ C-OTDR, DAS/DVS, BOTDA/ BOTDR)、 Laser wind measurement radar、 Optical coherence tomography、 Spectral measurement / ns-level optical pulse detectiont

## Parameters

Dimensional Drawing




Technical Parameters

| Center Wavelength | Lens Coating Wavelength | Waist Spot | Beam Divergence Angle | Effective Focal Length | Numerical Aperture (Lens) | Package Diameter | Input Fiber Type | Connector | Transmission Rate |
|---|---|---|---|---|---|---|---|---|---|
| 405nm | 400-700nm | 5.3mm | 0.009° | 33.2mm | 0.27 | 24.×42 | S405-HP | FC/PC FC/APC SMA905 | >95% |
| 450nm | 400-700nm | 5.8mm | 0.007° | 33.5mm | 0.26 | 24.×42 | 460HP | | |
| 525nm | 400-700nm | 6.3mm | 0.006° | 34.3mm | 0.26 | 24.×42 | 460HP | | |
| 635nm | 400-700nm | 7.0mm | 0.007° | 35.3mm | 0.25 | 24.×42 | 630HP | | |
| 780nm | 700-1050nm | 7.4mm | 0.008° | 36.0mm | 0.25 | 24.×42 | 78OHIP | | |
| 850nm | 700-1050nm | 7.8mm | 0.008° | 36.2mm | 0.25 | 24.×42 | 780HP | | |
| 980nm | 700-1050nm | 8.5mm | 0.009° | 36.4mm | 0.25 | 24.×42 | 980HP | | |

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|---|---|---|---|---|---|---|---|---|---|
| 1064nm | 1050-1700nm | 7.9 mm | 0.010° | 36.6 mm | 0.25 | 24.×42 | 980HP | | |
| 1310nm | 1050-1700nm | 6.6 mm | 0.014° | 36.7 mm | 0.24 | 24.×42 | SMF-28e | | |
| 1550nm | 1050-1700nm | 6.9 mm | 0.016° | 37.1 mm | 0.24 | 24.×42 | SMF-28e | | |