# 2mm spot width wide spectrum fiber collimator 450nm-20um FC/APC

## Product Description

It uses a 90° off-axis parabolic mirror, which maintains a constant focal length across a wide wavelength range. This makes it an optimal choice for collimating broadband wavelengths of light when the focus is accurately adjusted. The lens surface is coated with a silver film for the wavelength range from 450nm to 2000nm, enhancing the output efficiency. This collimator is available with optional FC/PC, FC/APC, or SMA connectors.

## Part Number

NIR-CLM-W450/20-2-7.5-FA

## Product features

Surface coated with silver film (450nm-20μm), gold film (450nm-20μm), or aluminum film (250-450nm), offering high reflectivity、 The reflective coating is protected with an additional layer, improving environmental adaptability 、Reflective working mode with chromatic aberration correction across the entire reflective bandwidth spectrum、 Suitable for collimating multi-wavelength light

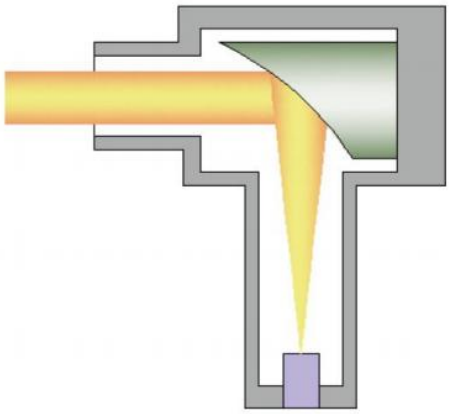
or coupling light into optical fibers、 Non-magnetic stainless steel housing、 Standard interface design for easy installation and use

## ● Application area

Spectral analysis、 Fluorescence analysis、 Gas remote sensing、 Water quality composition analysis、 Food safety、 Medical analytical instruments

## Parameters

Dimensional Drawing



Technical Parameters

| Operating Wavelength | 450nm - 20um |
|---|---|
| Coating | Silver coating/Aluminum coating |
| Reflectance (average value) | ≥96% |
| Exit beam diameter | 2mm、4mm、8.5mm、12mm (using fiber NA=0.13) |
| Numerical aperture | 0.4、0.36、0.167、0.216 |
| Clear aperture | Φ7.5mm、Φ11mm、Φ22mm |
| Connector type | FC/PC、FC/APC、SMA |
| Operating temperature | -10~70℃ |