

MWIR & LWIR Collimating Lenses

- High numerical aperture for max collection efficiency
- Compact, single lens design
- Diffraction limited performance
- RoHS Compliant



MWIR/LWIR collimating lenses have a high numerical aperture for maximum light collection for collimating light from MWIR and LWIR lasers, including quantum cascade lasers (QCL). The aspheric design enables a single lens to replace complex multiple component optical system.

Lens Code 390036

| | |
|------------------------------|-----------------------|
| Optical Glass Material | BD-2 |
| Design Wavelength | 2.5 μm |
| Numerical Aperture (NA) | 0.56 |
| Clear Aperture (CA) | 5.00 mm |
| Effective Focal Length (EFL) | 4.0 mm \pm 1% |
| Magnification | Infinite |
| RMS WFE | < Diffraction Limited |
| Outer Diameter (OD) | 6.50 mm |
| Working Distance (WD) | 3.05 mm |
| Center Thickness (CT) | 2.5 mm |

Lens Code 390037

| | |
|------------------------------|-----------------------|
| Optical Glass Material | BD-2 |
| Design Wavelength | 7 μm |
| Numerical Aperture (NA) | 0.85 |
| Clear Aperture (CA) | 4.00 mm |
| Effective Focal Length (EFL) | 1.873 mm \pm 1% |
| Magnification | Infinite |
| RMS WFE | < Diffraction Limited |
| Outer Diameter (OD) | 5.50 mm |
| Working Distance (WD) | 0.723 mm |
| Center Thickness (CT) | 3.0 mm |

Mounted MWIR/LWIR

| 390036XX-MT | 390037XX-MT | General Specifications and Tolerances | |
|-------------|-------------|---------------------------------------|---------------------|
| | | Holder Material | Stainless Steel 304 |
| | | Holder Outer Diameter | \pm 0.025 mm |
| | | Holder Inner Diameter | \pm 0.100 mm |
| | | Holder Length | \pm 0.100 mm |
| | | Length of Threaded Section | \pm 0.100 mm |