

[See all 32 Products in Family](#)

# 12.7mm Dia. x 50.8mm FL, Uncoated, ISP Optics Zinc Selenide (ZnSe) Meniscus Lens | ZC-PM-12-50

See More by [ISP Optics](#)



Stock #24-910 **CLEARANCE** 2 In Stock

⊖ 1 ⊕ C\$470<sup>00</sup>

**ADD TO CART**

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1+         | C\$470.40 each                |
| Need More?     | <a href="#">Request Quote</a> |

## Product Downloads

### General

Meniscus Lens **Type:**  
ZC-PM-12-50 **Model Number:**

### Physical & Mechanical Properties

|                   |                                  |
|-------------------|----------------------------------|
| 12.70 +0.00/-0.13 | <b>Diameter (mm):</b>            |
| 1.80 ±0.20        | <b>Center Thickness CT (mm):</b> |
| <3                | <b>Centering (arcmin):</b>       |
| 90                | <b>Clear Aperture (%):</b>       |
| 11.43             | <b>Clear Aperture CA (mm):</b>   |
| 1.50              | <b>Edge Thickness ET (mm):</b>   |

## Optical Properties

|                                 |  |
|---------------------------------|--|
| 50.80 @ 10.6µm                  | <b>Effective Focal Length EFL (mm):</b>    |
| Zinc Selenide (ZnSe), CVD Grade | <b>Substrate:</b> <input type="checkbox"/> |
| 4.00                            | <b>f#:</b>                                 |
| 0.13                            | <b>Numerical Aperture NA:</b>              |
| Uncoated                        | <b>Coating:</b>                            |
| 600 - 18000                     | <b>Wavelength Range (nm):</b>              |
| ±2                              | <b>Focal Length Tolerance (%):</b>         |
| 107.65                          | <b>Radius R<sub>1</sub> (mm):</b>          |
| 42.85                           | <b>Radius R<sub>2</sub> (mm):</b>          |
| 60-40                           | <b>Surface Quality:</b>                    |
| λ/20                            | <b>Irregularity (P-V) @ 10.6µm:</b>        |

## Regulatory Compliance

|                           |                                    |
|---------------------------|------------------------------------|
| <a href="#">Compliant</a> | <b>RoHS 2015:</b>                  |
| <a href="#">View</a>      | <b>Certificate of Conformance:</b> |
| <a href="#">Compliant</a> | <b>Reach 240:</b>                  |

## Product Details

- Positive or Negative Meniscus Lenses
- CVD Grade Zinc Selenide (ZnSe) Ideal for CO<sub>2</sub> Systems
- Uncoated or BBAR Coated for 8 – 12µm

ISP Optics Zinc Selenide (ZnSe) Meniscus Lenses feature positive and negative meniscus designs that minimize spherical aberration. Positive meniscus lenses enable smaller spot sizes than possible with PCX lenses, making them ideal for use in CO<sub>2</sub> laser applications for precise marking or cutting. Negative meniscus lenses are used to increase the focal length when used with additional lenses, decreasing the numerical aperture of an optical system. ISP Optics Zinc Selenide (ZnSe) Meniscus Lenses are available in standard imperial sizes either uncoated or Broadband Anti-Reflection (BBAR) coated for enhanced transmission from 8 – 12µm.

## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools