

[See all 6 Products in Family](#)

# 12.7mm, ISP Optics Calcium Fluoride Equilateral Prism | CF-EP-12

See More by [ISP Optics](#)



Stock #19-709 CLEARANCE **5 In Stock**

S\$1,369<sup>13</sup>

ADD TO CART

Volume Pricing	
Qty 1+	S\$1,369.13 each
Need More?	<a href="#">Request Quote</a>

Product Downloads

**General**

Equilateral Prism Type:  
CF-EP-12 Model Number:

**Physical & Mechanical Properties**

±0.25 Dimensional Tolerance (mm):  
85 Clear Aperture (%):

Length of Hypotenuse (mm):

12.70

Length of Legs (mm):

12.70

## Optical Properties

Coating:

Uncoated

Substrate:

Calcium Fluoride (CaF<sub>2</sub>)

Surface Quality:

40-20

Angle Tolerance (arcmin):

±10

Wavelength Range (nm):

200 - 7000

Wavelength Range (μm):

0.2 - 7

Surface Flatness (P-V):

2λ

## Regulatory Compliance

RoHS 2015:

Compliant

Certificate of Conformance:

[View](#)

Reach 240:

Compliant

## Product Details

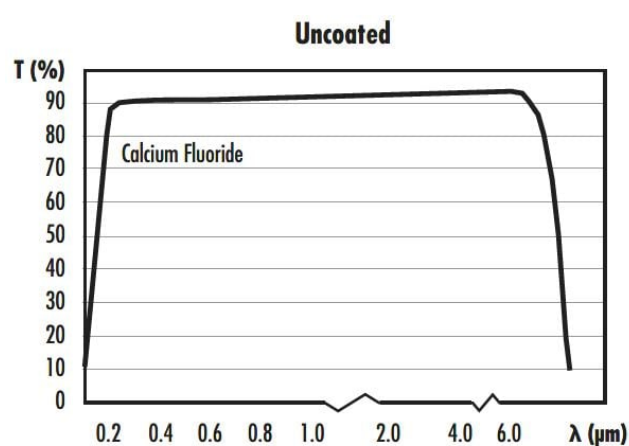
- CaF<sub>2</sub>, Ge, and ZnSe Substrates
- Ideal for Wavelength Separation
- Designed for Use with Collimated Sources
- Additional [Infrared Optics](#) Available

• Due to material supply chain disruptions with germanium, there may be increased lead times and price changes on our germanium products. For more information, please contact our [customer service team](#).

ISP Optics Infrared (IR) Equilateral Prisms, also referred to as dispersion prisms, feature three equal 60° angles and are used in wavelength separating applications. These prisms are available with calcium fluoride (CaF<sub>2</sub>), germanium (Ge), or zinc selenide (ZnSe) substrates. CaF<sub>2</sub> equilateral prisms offer a low refractive index and broad transmission range from 0.2 – 7μm, making them ideal for applications requiring high transmission from the UV through the IR. Ge equilateral prisms are transmissive from 2 – 14μm with a high index of 4.002 at 11μm and are used in applications where the optical path length needs to be maximized. ZnSe equilateral prisms have high, even transmission from 0.6 - 18μm and are typically integrated with CO<sub>2</sub> laser systems that feature a 632.8nm HeNe alignment laser and 10.6μm output beam.

**Note:** Special care should be taken when handling Zinc Selenide as it is a toxic material. Always wear rubber or plastic gloves to avoid risk of contamination.

## Technical Information



## 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

