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

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

⊖ 1 ⊕ €1.010⁰⁰

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General

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

Physical & Mechanical Properties

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

Length of Hypotenuse (mm):

12.70

Length of Legs (mm):

12.70

Optical Properties

Coating:

Uncoated

Substrate:

Calcium Fluoride (CaF₂)

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

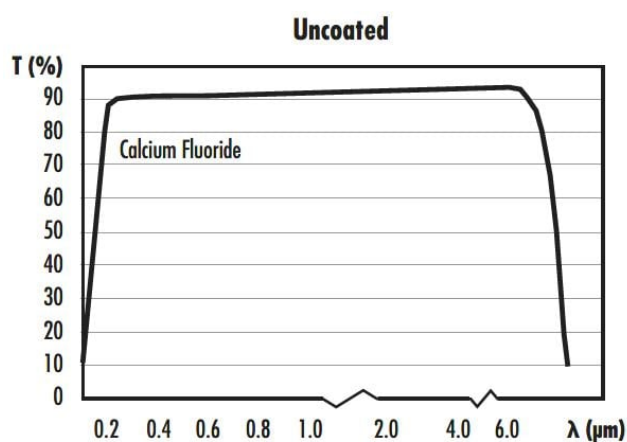
- CaF₂, Ge, and ZnSe Substrates
- Ideal for Wavelength Separation
- Designed for Use with Collimated Sources
- Additional [Infrared Optics](#) Available

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 (CaF₂), germanium (Ge), or zinc selenide (ZnSe) substrates. CaF₂ equilateral prisms offer a low refractive index and broad transmission range from 0.2 – 7 μm, making them ideal for applications requiring high transmission from the UV through the IR. Ge equilateral prisms are transmissive from 2 – 14 μm with a high index of 4.002 at 11 μm and are used in applications where the optical path length needs to be maximized. ZnSe equilateral prisms have high, even transmission from 0.6 - 18 μm and are typically integrated with CO₂ laser systems that feature a 632.8nm HeNe alignment laser and 10.6 μm 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

