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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**

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1

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 ₹85,082

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| Qty 1+         | ₹85,082 each                  |
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General

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

Physical & Mechanical Properties

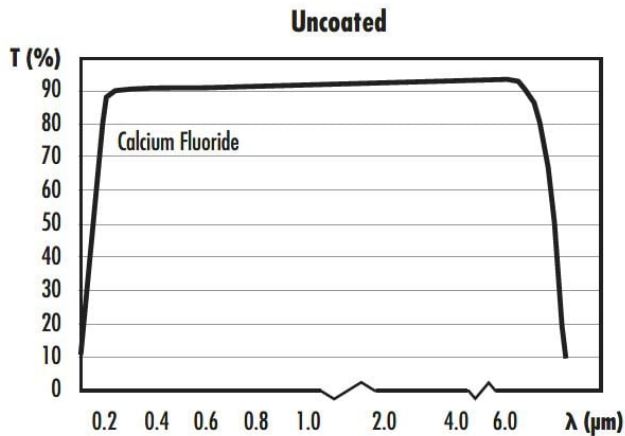
|                             |  |
|-----------------------------|--|
| Dimensional Tolerance (mm): |  |
| ±0.25                       |  |
| Clear Aperture (%):         |  |
| 85                          |  |

|                                      |                             |
|--------------------------------------|-----------------------------|
| 12.70                                | Length of Hypotenuse (mm):  |
| 12.70                                | Length of Legs (mm):        |
| Optical Properties                   |                             |
| Uncoated                             | Coating:                    |
| Calcium Fluoride (CaF <sub>2</sub> ) | Substrate: □                |
| 40-20                                | Surface Quality:            |
| ±10                                  | Angle Tolerance (arcmin):   |
| 200 - 7000                           | Wavelength Range (nm):      |
| 0.2 - 7                              | Wavelength Range (μm):      |
| 2λ                                   | Surface Flatness (P-V):     |
| Regulatory Compliance                |                             |
| Compliant                            | RoHS 2015:                  |
| View                                 | Certificate of Conformance: |
| Compliant                            | Reach 240:                  |
| Latvia                               | Country of Origin:          |
| Edmund Optics India Private Limited  | Imported By:                |

## 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 – 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 CO<sub>2</sub> 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

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