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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

+

S\$1,414^{.00}

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General

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

Physical & Mechanical Properties

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

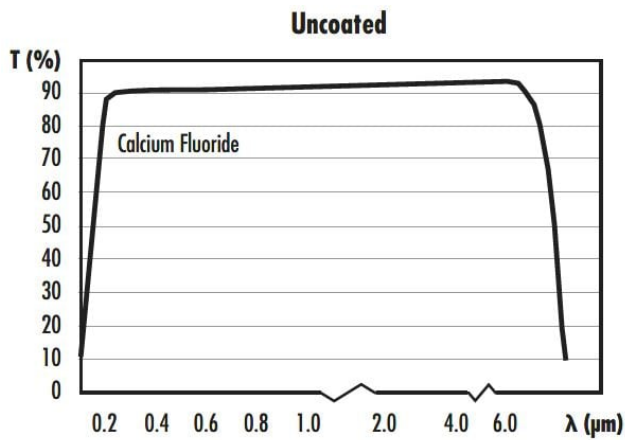
12.70	Length of Hypotenuse (mm):
12.70	Length of Legs (mm):
Optical Properties	
Uncoated	Coating:
Calcium Fluoride (CaF ₂)	Substrate: □
40-20	Surface Quality:
±10	Angle Tolerance (arcmin):
200 - 7000	Wavelength Range (nm):
0.2 - 7	Wavelength Range (μm):
2λ	Surface Flatness (P-V):

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

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 – 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 CO₂ 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

