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25.4mm, ISP Optics Germanium Equilateral Prism | GE-EP-25

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Stock **#19-712** **3 In Stock**

- 1 +

S$3,080.00

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Volume Pricing	
Qty 1-5	**S$3,080.00** each
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Qty 26-49	**S$2,310.00** each
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General

Type:

Equilateral Prism

Model Number:

ZC-EP-25

Physical & Mechanical Properties

Dimensional Tolerance (mm):

±0.25

Clear Aperture (%):	
85	
Length of Hypotenuse (mm):	
25.40	
Length of Legs (mm):	
25.40	

Optical Properties

Coating:	
Uncoated	
Substrate:	
Germanium (Ge)	
Surface Quality:	
60-40	
Angle Tolerance (arcmin):	
±10	
Wavelength Range (nm):	
2000 - 14000	
Wavelength Range (µm):	
2 - 14	
Surface Flatness (P-V):	
2λ	

Regulatory Compliance

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

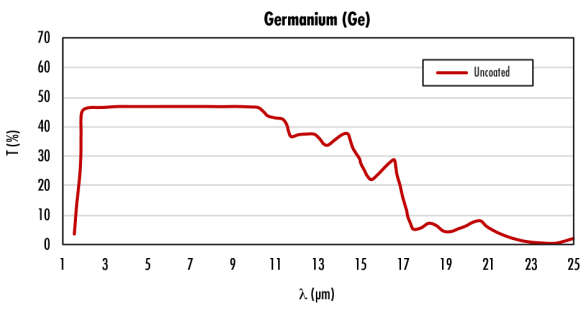
Product Details

- CaF_2, 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_2), germanium (Ge), or zinc selenide (ZnSe) substrates. CaF_2 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_2 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

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