![Edmund Optics | worldwide]
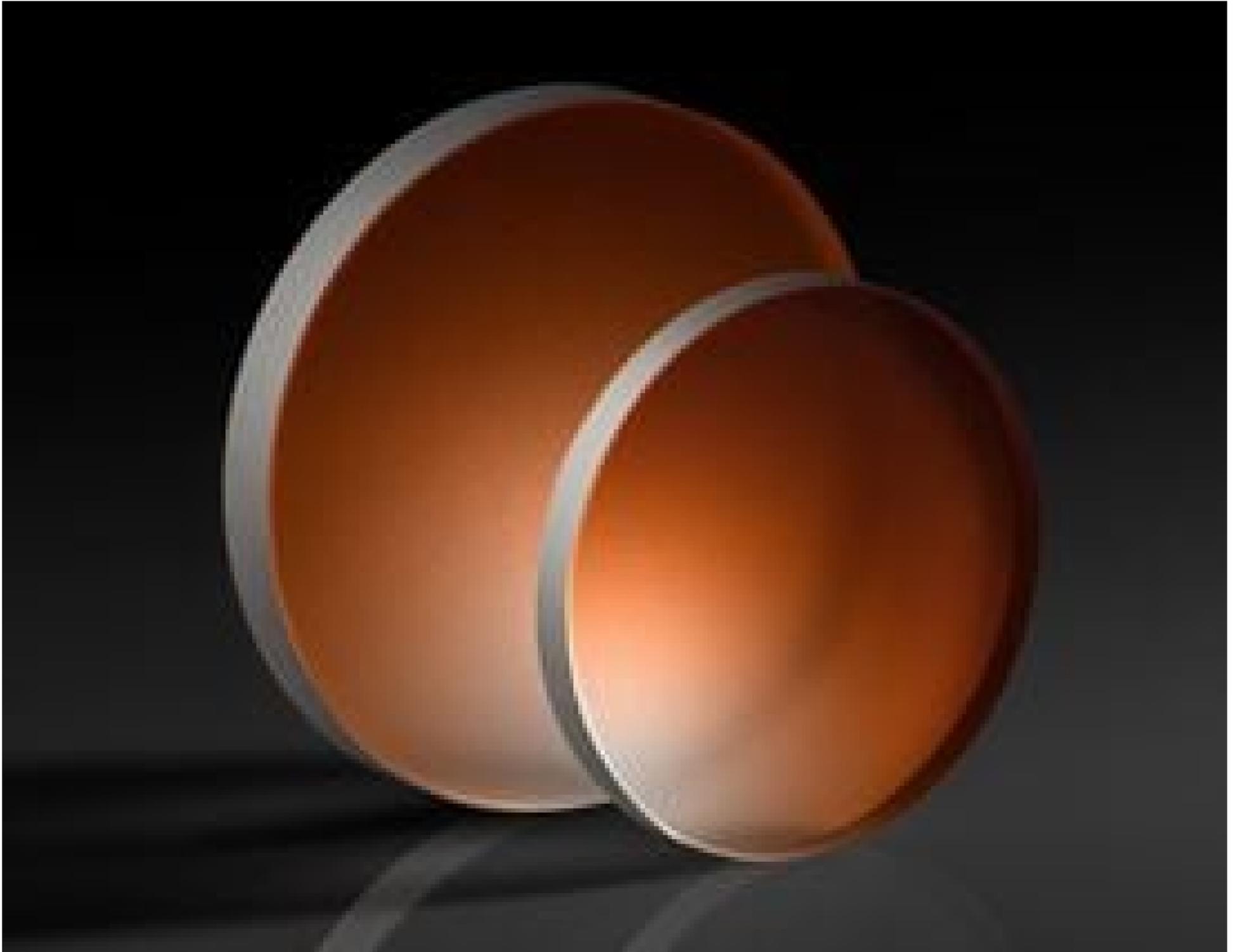
5mm Dia., 1mm Thick, Zinc Selenide (ZnSe) Diffuser

IR Calcium Fluoride (CaF2) Diffusers

Stock **#72-632** NEW   **6 In Stock**

⊖   1   ⊕   **S$366**.⁸⁰

ADD TO CART

Volume Pricing	
Qty 1-5	**S$366.80** each
Qty 6-25	**S$294.00** each
Qty 26+	**S$275.80** each
Need More?	**Request Quote**

Product Downloads

General

Type:	
IR Diffuser	
Note:	
Fine Grind S1 to 180 grit, Polished S2	

Physical & Mechanical Properties

Clear Aperture CA (mm):	
4.5 Specified for S2	

	Diameter (mm):
5.00 ±0.01	
	Edges:
Fine Ground	
	Thickness (mm):
1.00 ±0.10	
	Parallelism (°):
<1 arcmin	
	Bevel:
Protective as needed	

Optical Properties

	Coating:
Uncoated	
	Substrate: ☐
ZnSe	
	Wavelength Range (nm):
600 - 12000	
	Surface Quality:
80-50 Specified for S2	
	Surface Accuracy, P-V:
S1: N/A S2: λ/2	

Regulatory Compliance

	Certificate of Conformance:
View	

Product Details

- Evenly Ground First Surface for Even Diffusion
- Low Index of Refraction Maximizes Throughput
- Broad Transmission Range

IR Diffusers feature an evenly fine ground first surface to produce even diffusion in the visible (VIS) and infrared (IR) spectra. Available in both ZnSe and CaF2 options with transmission ranges of 600nm-12000nm and 300nm-7000nm respectively, these diffusers can be used with a variety of coherent and incoherent light sources. The low index of refraction of calcium fluoride maximizes the throughput of these diffusers without use of an antireflection (AR) coating. IR Diffusers are ideal for use in laser calibration systems and general diffusion of VIS - IR light sources.

Technical Information

CaF₂ Diffuser Typical Transmission
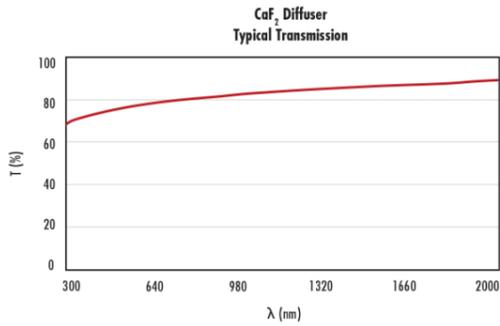
Special Handling

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