

38.1mm Dia., 3mm Thick, ISP Optics CaF₂ Infrared (IR) Diffuser | DIF-IR-38-3

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Infrared (IR) Diffusers

Stock **#24-711** CLEARANCE CONTACT US

-

1

+

£161^{.97}

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Volume Pricing	
Qty 1-10	£161.97 each
Qty 11+	£145.33 each
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Product Downloads

SPECIFICATIONS

General

DIF-IR-38-3

Model Number:

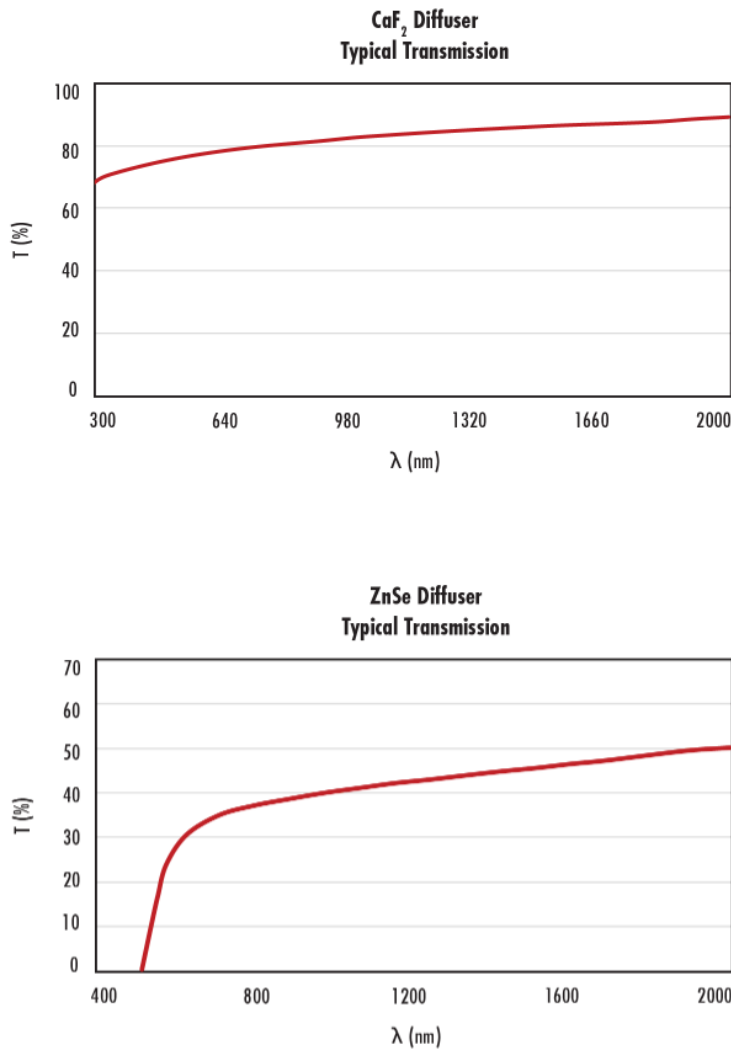
IR Diffuser	Type:
Note: Fine Grind first surface with a roughness (Ra) of ≤ 0.75 microns	
Physical & Mechanical Properties	
38.10 +0.00/-0.13	Diameter (mm):
Ground	Edges:
3.00 $\pm$ 0.13	Thickness (mm):
Optical Properties	
Uncoated	Coating:
Calcium Fluoride (CaF ₂)	Substrate: ☐
300 - 8000	Wavelength Range (nm):
Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 240:

PRODUCT DETAILS

- Even, Diffuse Surface
- Low Scatter Loss
- 0.3 – 12.0 μ m Spectral Range
- [UV Fused Silica Ground Glass Diffusers](#) Also Available

ISP Optics Infrared (IR) Diffusers are useful for creating even intensity distribution of broadband IR light sources. These ground diffusers are polished on one side and sandblasted on the other side to produce a rough surface that will scatter light. These diffusers are available with either calcium fluoride (CaF₂) or Zinc Selenide (ZnSe) substrates. The CaF₂ substrate has a transmission range from 0.3 to 8.0 microns and the ZnSe substrate has transmission range from 0.6 to 12.0 microns. ISP Optics Infrared (IR) Diffusers are ideal for a variety of applications including FTIR systems, laser calibration systems, and illuminator diffusion.

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

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).
