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100µm Aperture

Pinhole

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Unmounted Precision Pinhole

1 €72^{,50}

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Volume Pricing	
Qty 1-5	€72,50 each
Qty 6-10	€64,40 each
Qty 11+	€59,60 each
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Product Downloads

- STEP:step
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
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General

Type:	Unmounted
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Physical & Mechanical Properties

Outer Diameter (mm):	9.5	Construction:	Stainless Steel
Fixed Aperture Diameter (µm):	100	Thickness (mm):	0.03 Nominal
Aperture Tolerance (µm):	±5	Aperture Centration (µm):	±50

Regulatory Compliance

RoHS 2015:	Compliant	Certificate of Conformance:	View
Reach 247:	Compliant		

Product Details

- Available in Aperture Mounts for a Secure Mechanical Support
- Pinhole Sized Ranging from 1 to 1,000 Microns
- **High Power Apertures** Available

Unmounted Precision Pinholes

Precision Pinholes are high quality apertures centered to ±0.002" (50 microns). They are constructed of stainless steel and are 3/8" (9.5mm) in diameter. Smaller diameter pinholes will reduce energy throughput, while larger diameter pinholes will pass more spatial noise. Precision pinholes have sizes ranging from 1 to 1,000 microns. Typical applications include leak detection, aerosol studies, holography, fiber optics guides, spatial filtering, research, and more.

Use the [Precision Pinhole Mount](#) to integrate unmounted pinholes into a variety of mechanical components easily.

Mounted Precision Pinholes

Precision Pinholes are available in aperture mounts for secure mechanical support. The mounts also fit into various optical assemblies. Each 9.5mm diameter pinhole is sealed within a 25mm diameter black-anodized aluminum mount. The mount is clearly labeled with a pinhole aperture diameter for easy identification.

Note: Aperture Centering to Mount ± 125 microns.

Edmund Optics offers a wide selection of precision pinholes for leak detection, aerosol studies, holography, fiber optic guides, spatial filtering, research, and more. These pinholes are available in a range of diameters and are ideal for controlling light propagation. Each pinhole is manufactured using high-accuracy techniques, providing consistent circular aperture geometry and high edge quality. Available in a variety of applications, from experimental labs to industrial environments.

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Related Products



Precision Pinhole Mount



Compact Mirror & Lens Mounts

Frequently Purchased Together



#03-627 - C-Mount Male to Olympus (RMS/DIN) Female Step-Down Adapter
€52,00

Qty



#03-630 - C-Mount Double Female Thread Ring
€36,75

Qty



#03-618 - 5mm Spacer to convert CS-Mount Cameras to C-Mount
€29,00

Qty



#03-625 - 30mm - 50mm Length, C-Mount Fine Focus Tube
€118,00

Qty



Resources

Media Type

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Axial Runout

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