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## 25µm Aperture Diameter, Unmounted, Precision Pinhole



Unmounted Precision Pinhole

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### Product Downloads

### General

Unmounted **Type:**

### Physical & Mechanical Properties

9.5 **Outer Diameter (mm):**

**Construction:**

Stainless Steel

25 Fixed Aperture Diameter ( $\mu\text{m}$ ):

0.01 Nominal Thickness (mm):

$\pm 5$  Aperture Tolerance ( $\mu\text{m}$ ):

$\pm 50$  Aperture Centration ( $\mu\text{m}$ ):

## Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Compliant](#) Reach 247:

## 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  $\pm 0.002"$  (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  $\pm 125$  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 both mounted and unmounted formats, these pinholes support a variety of optical setups, from experimental labs to industrial environments.

## Technical Information

