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## 100 μm Aperture Diameter, 0.5" OD Mounted, Precision Pinhole



Unmounted Precision Pinhole



Stock #90-277 NEW 2 In Stock

A\$142<sup>00</sup>

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**General**

Mounted Type:

**Physical & Mechanical Properties**

12.7 +0.000/-0.05 Outer Diameter (mm):

Construction:

Stainless Steel	
100	<b>Fixed Aperture Diameter (µm):</b>
0.03 Nominal	<b>Thickness (mm):</b>
±5	<b>Aperture Tolerance (µm):</b>
±125	<b>Aperture Centration (µm):</b>
<b>Threading &amp; Mounting</b>	
2.54	<b>Mount Thickness (mm):</b>
<b>Regulatory Compliance</b>	
<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

## 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

