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## 500 μm Aperture Diameter, 1" OD Mounted, Precision Pinhole



Unmounted Precision Pinhole



Stock #90-306 **NEW** 6 In Stock

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### General

Mounted **Type:**

### Physical & Mechanical Properties

25.4 +0.000/-0.05 **Outer Diameter (mm):**

	<b>Construction:</b>
Stainless Steel	
	<b>Fixed Aperture Diameter (µm):</b>
500	
	<b>Thickness (mm):</b>
0.03 Nominal	
	<b>Aperture Tolerance (µm):</b>
±5	
	<b>Aperture Centration (µm):</b>
±125	

## Threading & Mounting

	<b>Mount Thickness (mm):</b>
2.54	

## Regulatory Compliance

<b>Compliant</b>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<b>Compliant</b>	<b>Reach 247:</b>
United States	<b>Country of Origin:</b>
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	<b>Imported By:</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

