

## 1µm Aperture Diameter, Mounted, Precision Pinhole



1µm Aperture Diameter, Mounted, Precision Pinhole, #56-272

Stock **#56-272** **5 In Stock**

⊖ 1 ⊕ **S\$222<sup>00</sup>**

**ADD TO CART**

### Volume Pricing

Qty 1-5	<b>S\$222.60</b> each
Qty 6-10	<b>S\$196.00</b> each
Qty 11+	<b>S\$181.02</b> each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

### General

Mounted **Type:**

### Physical & Mechanical Properties

25 +0.4/-0.000 **Outer Diameter (mm):**

Stainless Steel **Construction:**

1	<b>Fixed Aperture Diameter (µm):</b>
0.01 Nominal	<b>Thickness (mm):</b>
±0.5	<b>Aperture Tolerance (µm):</b>
±125	<b>Aperture Centration (µm):</b>

### Threading & Mounting

1.25 ±0.05	<b>Mount Thickness (mm):</b>
------------	------------------------------

### Regulatory Compliance

<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 ±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 both mounted and unmounted formats, these pinholes support a variety of optical setups, from experimental labs to industrial environments.

## Technical Information

