

## 50µm Aperture Diameter, Mounted, Precision Pinhole



50µm Aperture Diameter, Mounted, Precision Pinhole, #56-282

Stock **#56-282** **15 In Stock**

⊖ 1 ⊕ **S\$117<sup>00</sup>**

**ADD TO CART**

### Volume Pricing

Qty 1-5	<b>S\$117.60</b> each
Qty 6-10	<b>S\$103.88</b> each
Qty 11+	<b>S\$96.04</b> each
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### Product Downloads

### General

Mounted **Type:**

### Physical & Mechanical Properties

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

Stainless Steel **Construction:**

Fixed Aperture Diameter (µm):

50

Thickness (mm):

0.03 Nominal

Aperture Tolerance (µm):

±5

Aperture Centration (µm):

±125

## Threading & Mounting

Mount Thickness (mm):

1.25 ±0.05

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

## Technical Information

