

[See all 96 Products in Family](#)

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



Unmounted Precision Pinhole



Stock **#90-268** NEW **2 In Stock**

-

1

+

S\$140<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-5        | S\$140.00 each                |
| Qty 6+         | S\$124.60 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

| General                          |                      |
|----------------------------------|----------------------|
| Mounted                          | Type:                |
| Physical & Mechanical Properties |                      |
| 12.7 +0.000/-0.05                | Outer Diameter (mm): |
|                                  | Construction:        |

|                 |                               |
|-----------------|-------------------------------|
| Stainless Steel |                               |
|                 |                               |
| 12.5            | Fixed Aperture Diameter (µm): |
|                 |                               |
| 0.01 Nominal    | Thickness (mm):               |
|                 |                               |
| ±5              | Aperture Tolerance (µm):      |
|                 |                               |
| ±125            | Aperture Centration (µm):     |

Threading & Mounting

|      |                       |
|------|-----------------------|
|      |                       |
| 2.54 | Mount Thickness (mm): |

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 ±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

