

# 1000μm Aperture Diameter, Unmounted, Precision Pinhole



Unmounted Precision Pinhole

Stock **#39-730** 20+ In Stock

-

1

+

S\$101<sup>50</sup>

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| Qty 1-5        | S\$101.50 each                |
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Product Downloads

| General                          |                      |
|----------------------------------|----------------------|
| Unmounted                        | Type:                |
| Physical & Mechanical Properties |                      |
| 9.5                              | Outer Diameter (mm): |
| Stainless Steel                  | Construction:        |

|              |                               |
|--------------|-------------------------------|
| 1000         | Fixed Aperture Diameter (µm): |
| 0.03 Nominal | Thickness (mm):               |
| ±5           | Aperture Tolerance (µm):      |
| ±50          | Aperture Centration (µm):     |

|                       |                             |
|-----------------------|-----------------------------|
| Regulatory Compliance |                             |
| Compliant             | RoHS 2015:                  |
| View                  | Certificate of Conformance: |
| Compliant             | Reach 247:                  |

## Product Details

- Available in Aperture Mbunts 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

