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# 12.5µm Aperture Diameter, Unmounted, Precision Pinhole



Unmounted Precision Pinhole

Stock **#38-539** **2 In Stock**

-

1

+

₹5,721

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Product Downloads

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

|                                     |                               |
|-------------------------------------|-------------------------------|
| 12.5                                | Fixed Aperture Diameter (µm): |
| 0.01 Nominal                        | Thickness (mm):               |
|                                     |                               |
| ±5                                  | Aperture Tolerance (µm):      |
| ±50                                 | Aperture Centration (µm):     |
|                                     |                               |
| Regulatory Compliance               |                               |
| Compliant                           | RoHS 2015:                    |
| View                                | Certificate of Conformance:   |
|                                     |                               |
| Compliant                           | Reach 247:                    |
|                                     |                               |
| United States                       | Country of Origin:            |
| Edmund Optics India Private Limited | Imported By:                  |

## 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

