

# 10 μm Aperture Diameter, 1" OD Mounted, Precision Pinhole



Unmounted Precision Pinhole



Stock #90-291 NEW 3 In Stock

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1

+

£80<sup>00</sup>

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| Qty 1-5        | £80.00 each                   |
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SPECIFICATIONS

General

Type:

|                                  |                               |
|----------------------------------|-------------------------------|
| Mounted                          |                               |
| Physical & Mechanical Properties |                               |
| 25.4 +0.000/-0.05                | Outer Diameter (mm):          |
| Stainless Steel                  | Construction:                 |
| 10                               | Fixed Aperture Diameter (µm): |
| 0.01 Nominal                     | Thickness (mm):               |
| ±1                               | 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

