

Sill Optics 369nm, 41.2mm FL, 0.4NA, Trapped Ion Lens, S6ASS2246

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Sill Optics Trapped Ion Lenses

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C\$6,637⁶⁸

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SPECIFICATIONS

General

Model Number:

S6ASS2246

Physical & Mechanical Properties

0.36	Field of View (mm):
2.00	Window Thickness (mm):
Optical Properties	
369	Design Wavelength DWL (nm):
41.20	Focal Length FL (mm):
Fused Silica	Substrate:
0.4	Numerical Aperture NA:
38.70	Working Distance (mm):
Regulatory Compliance	
View	Certificate of Conformance:

PRODUCT DETAILS

- Designed For 369nm Ion Fluorescence Wavelengths
- High Numerical Aperture and Diffraction Limited Performance
- Ideal for Ytterbium (Yb+) Ion Quantum Computing and Sensing Applications

Sill Optics Trapped Ion Lenses are designed for observation of experiments and applications reliant on trapped ions such as quantum computing and quantum sensing. Designed for ytterbium (Yb+) ion quantum computing, this lens features a high numerical aperture (NA) of 0.4 and a design wavelength of 369nm guaranteeing diffraction-limited imaging of the reflected fluorescence wavelength for sharp focus of a trapped ion. These lenses can be customized for a variety of window thicknesses, wavelength options, working distances, and focal lengths to support unique laboratory environments utilizing ytterbium (Yb+), calcium (Ca+), Berylium (Be+), and Barium (Ba+) ions. Sill Optics Trapped Ion Lenses are specially designed to overcome the limitations imposed on the NA and minimum distance between the lens and the focal plane by vacuum windows up to 2mm thick between the lens and the trapped ion chamber. All optical elements within this trapped ion lens are constructed from fused silica substrates featuring a special low-absorption coating to minimize thermal effects and provide stable and reliable performance.

CUSTOM

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

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