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## Sill Optics 1030-1090nm 2X Fixed Beam Expander, S6EXK0020-328

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Sill Optics 1030-1090nm 1.5X Fixed Beam Expander, S6EXK0015-328

Stock **#70-161** **2 In Stock**

⊖ 1 ⊕ C\$1,561<sup>00</sup>

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Volume Pricing	
Qty 1-4	C\$1,561.00 each
Qty 5+	C\$1,407.00 each
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### Product Downloads

#### General

S6EXK0020-328	<b>Model Number:</b>
Beam Expander	<b>Type:</b>
Fixed Magnification	<b>Style:</b>

#### Physical & Mechanical Properties

44.70 **Length (mm):**

0.20 **Weight (g):**

44.00 **Housing Diameter (mm):**

<1 **Pointing Accuracy (mrad):**

### Optical Properties

12.00 **Entrance Aperture (mm):**

26.00 **Exit Aperture (mm):**

2X **Expansion Power:**

Fused Silica **Substrate:**

>99 **Transmission (%):**

1064 **Coating:**

1064 **Design Wavelength DWL (nm):**

1030 - 1090 **Wavelength Range (nm):**

1030nm - 1090nm R < 0.20% - low absorption **Coating Specification:**

5.0 J/cm<sup>2</sup> per 1ns pulse at 50Hz **Damage Threshold, By Design:**

Rotating Optics **Divergence Adjustment:**

### Threading & Mounting

M30 x 1.0 **Mounting Threads:**

### Regulatory Compliance

[View](#) **Certificate of Conformance:**

## Product Details

- Fused Silica Optical Elements Reduce Thermal Expansion
- 1.5X, 2.5X, and 3X Fixed Magnification Options Available
- High Damage Thresholds up to 5.0 J/cm<sup>2</sup> (1ns, 50Hz)

Sill Optics Fixed Beam Expanders are designed to optimize focus diameter, focus position, and beam propagation within a laser system. All optical elements within these beam expanders are constructed from fused silica substrates featuring a special low-absorption coating to minimize thermal effects. These beam expanders can withstand the high thermal strain of small beam diameters and provide stable and reliable performance while utilizing high average or high peak power lasers. Sill Optics Fixed Beam Expanders are available for use with 1030 – 1090nm wavelength ranges and feature high damage thresholds for pulsed lasers up to 5.0 J/cm<sup>2</sup> (1ns, 50Hz). These beam expanders are ideal for high-power laser applications requiring a fixed magnification, such as prototyping, solar cell manufacturing, confocal microscopy, or R&D.