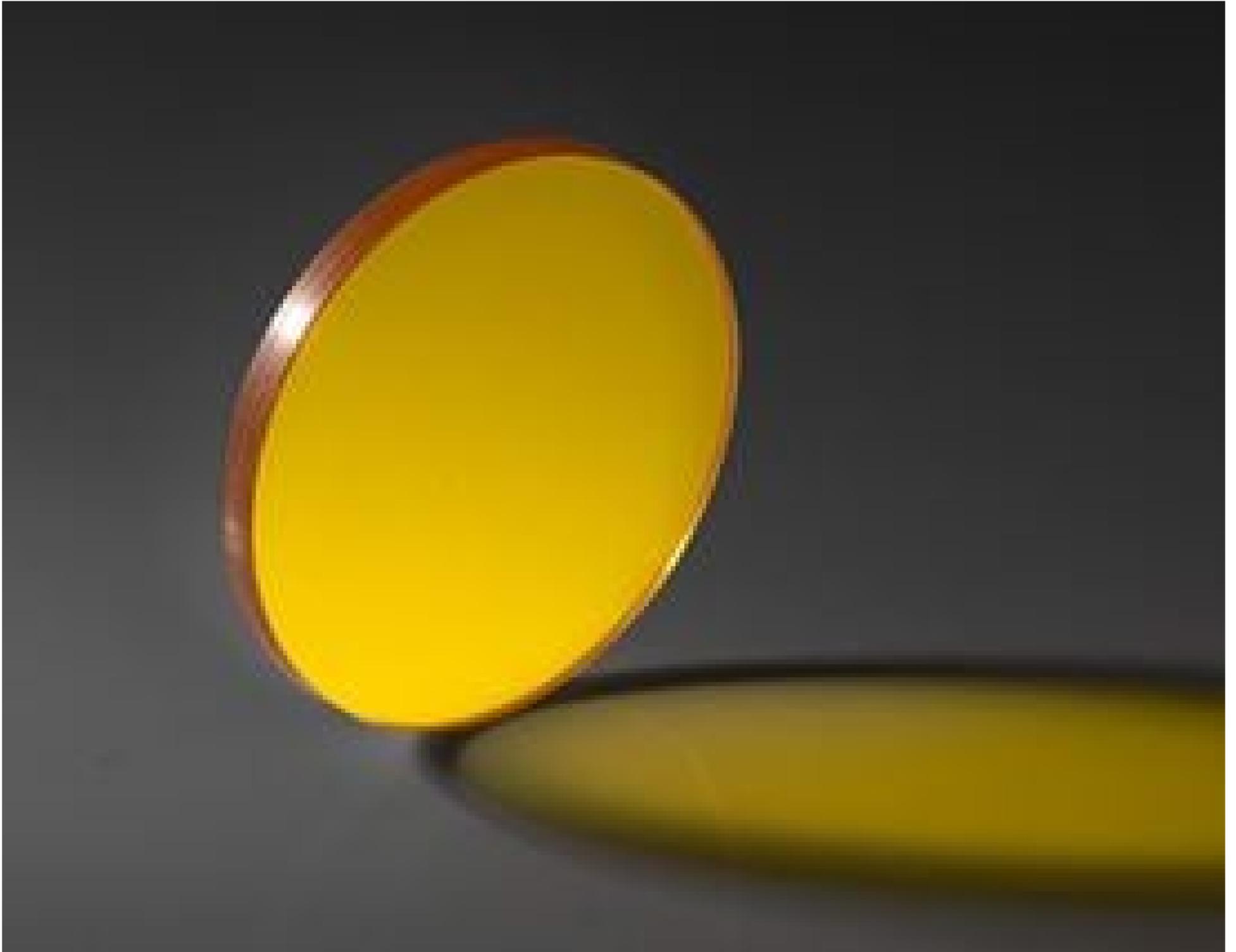


10.6µm, 25.4mm, Diffractive Beam Sampler



HOLO/OR Diffractive Beam Sampler

Stock **#14-696** **5 In Stock**

⊖ 1 ⊕ €2.180⁰⁰

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Volume Pricing	
Qty 1+	€2.180,00 each
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ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

Physical & Mechanical Properties

22.9 Clear Aperture CA (mm):

25.40 +0.05/-0.15 Diameter (mm):

3.00 ±0.1 Thickness (mm):

Optical Properties

Coating:

Laser V-Coat (10.6µm)

10600 **Design Wavelength DWL (nm):**

Zinc Selenide (ZnSe) **Substrate:**

10.6 **Design Wavelength DWL (µm):**

SMor MM **Input Beam Mode:**

0.09 **Minimum Beam Diameter (mm):**

21.06 **Sampled Angle (°):**

1.22 ±0.15 **Sampled Energy (%):**

Damage Threshold, Reference:
[See Link for More Details](#)

Regulatory Compliance

RoHS 2015:
[Compliant](#)

Certificate of Conformance:
[View](#)

Reach 233:
[Compliant](#)

Product Details

- Produces Two Higher Order Beams for Beam Monitoring
- Insensitive to X-Y-Z Displacement
- Compatible with Single Mode or Multimode Beams

HOLO/OR Diffractive Beam Samplers are diffractive optical elements (DOE) used to monitor high power lasers. When an input laser beam passes through the beam sampler as the zero order, two higher order side beams with low energy are produced as the -1 and +1 orders. These higher order beams can then be directed onto a detector to monitor the profile and power level of the laser beam. HOLO/OR Diffractive Beam Samplers are available with Zinc Selenide (ZnSe) substrates for use with CO₂ lasers.

Note: Diffractive optical elements are not intended for use outside of their design wavelength. Diffractive optical elements will have decreased performance if their surfaces become dirty from oil or other substances. It is recommended to always use [gloves or finger cots](#) when handling these optics.

Edmund Optics offers a range of diffractive optical elements from HOLO/OR for laser applications, including:

- **Diffractive Diffusers:** used to convert an input laser beam to a defined shape with homogenized distribution
- **Diffractive Beamsplitters:** used to split an input laser beam into a 1D array or 2D matrix output
- **Diffractive Beam Shapers:** used to transform a nearly-Gaussian laser beam into a defined shape with uniform flat top intensity distribution
- **Diffractive Beam Samplers:** used to transmit an input laser beam while producing two higher order beams that can be used to monitor high power lasers
- **Diffractive Axicons:** used to transform an input laser beam to a Bessel beam that can be focused to a ring
- **Diffractive Vortex Phase Plates:** used to convert a Gaussian profile beam to a donut-shaped energy ring

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

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Compatible Mounts