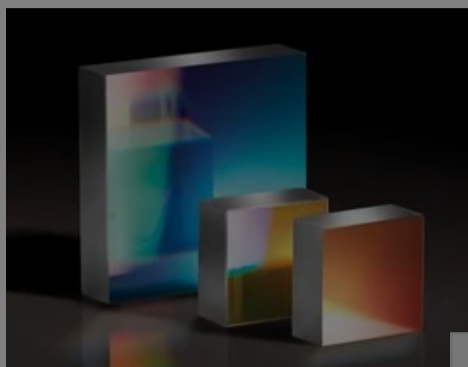


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Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Grating, 750nm,

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Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Grating



Stock #37-126 **4 In Stock**

1

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General

Type: Reflective Diffraction Grating

Master Reference: 2917

Physical & Mechanical Properties

Dimensions (mm): 12.5 x 12.5 ±0.1

Clear Aperture (%): >90

Construction: Ruled Grating

Length (mm): 12.50

Thickness (mm): 6.00 ±0.5

Width (mm): 12.50

Centering of Ruled Area on Substrate (mm): ±1

Alignment of Grooves to Edge (°): ±0.15

Groove Spacing Tolerance (%): <0.05

Optical Properties

Groove Density (grooves/mm): 1200

Wavelength Range (nm): 450 - 1500

Blaze Wavelength (nm): 750 ±25

Blaze Angle (°): 26.7

Peak Efficiency, Typical (%): 91

Coating: Aluminium

Substrate: Float Glass

Reflected Wavefront, RMS: λ/4

Polarization: S and P

Spectral Order (m): 1

Regulatory Compliance

Certificate of Conformance: [View](#)

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Need different specs or modifications?

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

Product Details

- Excellent Efficiency at Blaze Wavelength and Blaze Angle
- Superior Dimensional Tolerances
- Ideally Suited for Spectroscopic Applications
- Custom Sizes Available

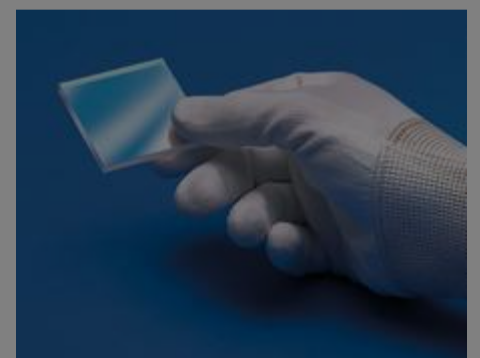
Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Gratings are designed for consistent, predictable performance. The gratings are manufactured from highly accurate masters to provide a high level of repeatability to simplify OEM system designs by reducing the need for tedious alignment adjustments. With $\lambda/4$ reflected wavefronts and up to 90% diffraction efficiency, these gratings are specified to meet the needs of the most demanding applications such as high-resolution spectroscopy. Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Gratings feature bare aluminum coatings, allowing for options that range from 250 to 10,000nm with excellent peak efficiencies. Custom sizes available on request.

Note: The surface of these gratings is very sensitive and should never be touched when handling the optic. If cleaning is required to remove dust particles, non-contact cleaning using clean compressed air is recommended.

Technical Information

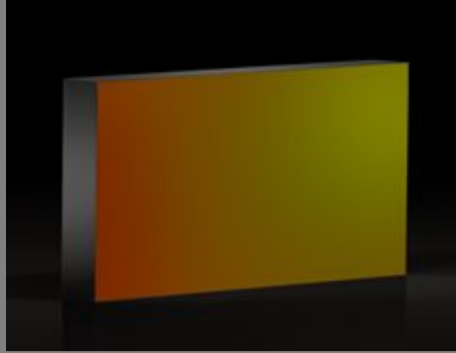
Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools

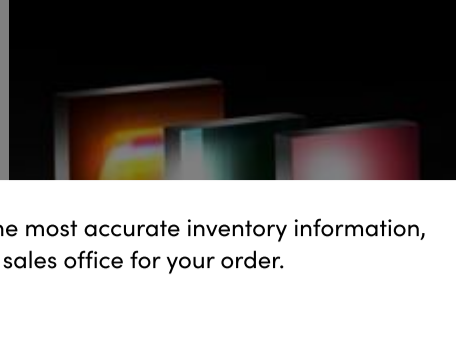
Related Products



Richardson Gratings™ Echelle Reflective Diffraction Gratings



Diffraction Gratings



Diffraction Gratings



Adjustable Grating Mounts

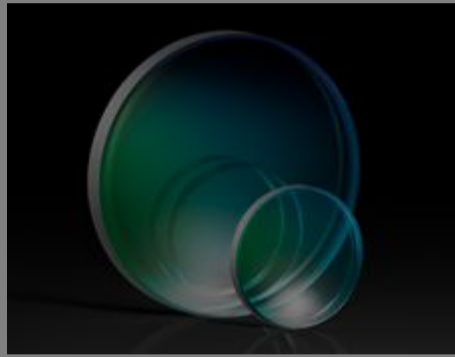
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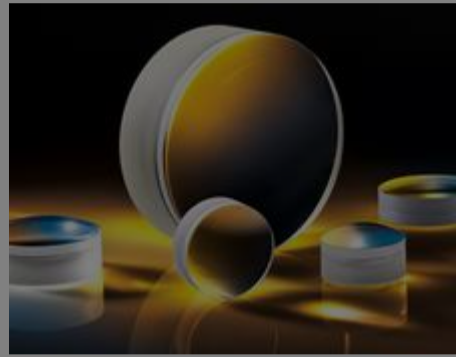
#43-466 - 25mm Dia. x 50mm FL Protected Aluminum, Concave Mirror
€54,50

Qty



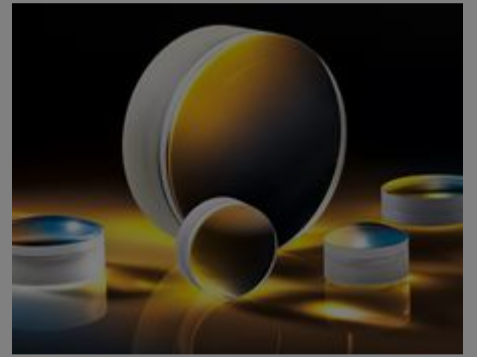
#49-027 - 550nm 12.5mm Diameter, OD 2.0 Longpass Filter
€98,00

Qty



#49-307 - 6.25mm Dia. x 25mm FL, VIS-NIR Coated, Achromatic Lens
€81,00

Qty



#49-311 - 6.25mm Dia. x 50mm FL, VIS-NIR Coated, Achromatic Lens
€81,00

Qty

Resources

Media Type

- Application Note
- Video
- FAQ
- Glossary

WEBINARS

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All About Diffraction Gratings

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