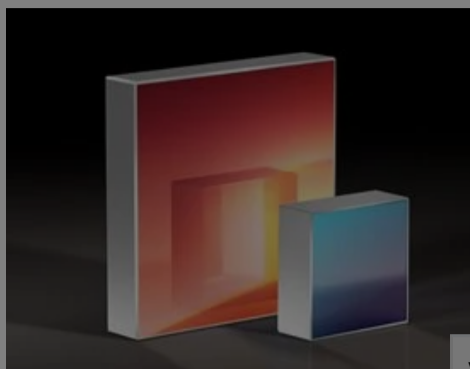


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2400 Grooves/mm



Reflective Holographic Gratings

Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

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1

€125⁰⁰

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Volume Pricing

Qty 1-9 €125,00 each

Qty 10-24 €112,50 each

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Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- Spec Sheets:pdf
- eDrawing:eprt
- EO Spec Sheet
- [Download All](#)

General

Type: Reflective Diffraction Grating

Physical & Mechanical Properties

Dimensions (mm): 12.7 x 12.7 ±0.5

Construction: Holographic Grating

Length (mm): 12.70

Thickness (mm): 6.00 ±0.5

Width (mm): 12.70

Alignment of Grooves to Edge (°): ±0.5

Optical Properties

Groove Density (grooves/mm): 2400

Wavelength Range (nm): 400 - 700

Coating: Bare Aluminum

Substrate: Float Glass

Wavelength: VIS

Absolute Peak Efficiency, Typical (%): 80

Peak Efficiency Avg, Typical (%): >61

Regulatory Compliance

RoHS 2015: **Compliant**

Certificate of Conformance: [View](#)

Reach 247: **Compliant**

Product Details

- Groove Density up to 3600 Grooves per millimeter
- Bare Aluminum Coating
- Sinusoidal Grating Profile
- Available Wavelength Range of 250 - 1500 nm

Holographic gratings are formed by an interference process on a substrate coated with photoresist. Processing of the exposed medium results in a pattern of structures.

Holographic gratings produce less stray light than ruled gratings. Due to their sinusoidal cross section, holographic gratings cannot be easily blazed and their efficiency is usually considerably less than a comparable ruled grating. There are, however, special exceptions which should be noted. When groove spacing to wavelength ratio is near one, a holographic grating has virtually the same efficiency as the ruled version. Also, a holographic grating with 1800 grooves per millimeter has the same efficiency at 500nm as a blazed ruled grating. Holographic master gratings are replicated by a process identical to that used for ruled gratings.

Handling Gratings: Gratings require special handling, making them prone to fingerprints and aerosols. Gratings should only be handled by the edges. Before attempting to clean a grating, please [contact us](#).

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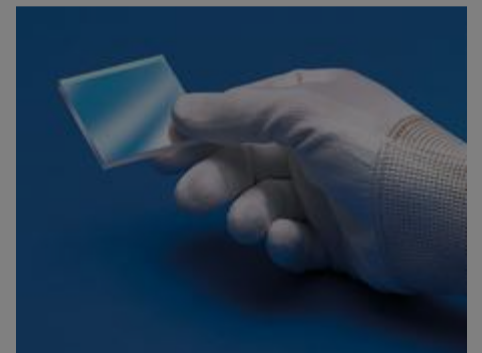
substrate coated with photoresist. Processing

er theoretical resolving power. Due to their

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



Adjustable Grating Mounts

Frequently Purchased Together



#01-307 - 25,400 Lines/Inch,
2" Square Card, 15/Pack,
Holographic Diffraction
Grating Film
€28,50

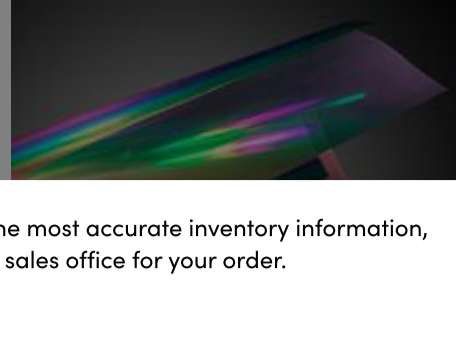
Qty



Please select your shipping country to view the most accurate inventory information, and to determine the correct Edmund Optics sales office for your order.

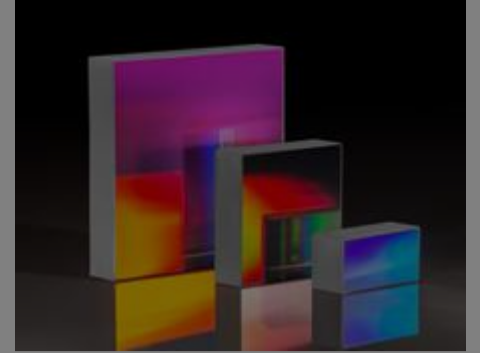
Select Your Country/Region:

Qty



Diffraction Grating Film
€19,75

Qty



#43-004 - 1200 Grooves,
12.5 x 25mm, 500nm Ruled
Diffraction Grating
€120,00

Qty

Resources

Media Type

- Application Note
- Video
- FAQ
- Glossary

WEBINARS

Helpful Tips for
Selecting the
Correct
Diffraction...

APPLICATION NOTE

All About
Diffraction
Gratings

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Richardson
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Unboxing

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