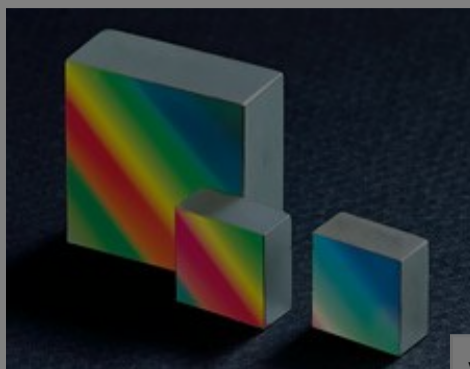


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/ [Near-IR \(NIR\) Reflective Gold G](#)

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600 Grooves, 30



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1

€225⁰⁰

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Volume Pricing

Qty 1-9 €225,00 each

Qty 10-24 €202,50 each

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Product Downloads

- STEP:step
- Curve:pdf
- PDF Drawing:pdf
- IGES:igs
- eDrawing:eprt
- EO Spec Sheet
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General

Type: Reflective Diffraction Grating

Physical & Mechanical Properties

Dimensions (mm): 30.0 x 30.0 ±0.5

Clear Aperture (%): 90

Construction: Ruled Grating

Direction of Grooves: Parallel to Short Dimension

Length (mm): 30.00

Thickness (mm): 9.50 ±0.5

Width (mm): 30.00

Alignment of Grooves to Edge (°): ±0.5

Optical Properties

Groove Density (grooves/mm): 600

Wavelength Range (nm): 700 - 3000

Blaze Wavelength (nm): 1600

Blaze Angle (°): 28.68

Coating: Bare Gold

Substrate: Float Glass

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Reach 247: [Compliant](#)

- Increased Reflection from 700 - 1100nm

Near-IR (NIR) Reflective Gold Gratings are ruled gold-coated versions of our commercial gratings. These gratings provide increased reflection from 700 - 1100nm. This makes them an excellent choice for applications such as fiber optic pulse compression and spectroscopy setups using [silicon detectors](#). Near-IR (NIR) Reflective Gold Gratings feature a float glass substrate and a ruled grating construction. The gratings are available in three sizes, with varying groove densities and blaze wavelengths.

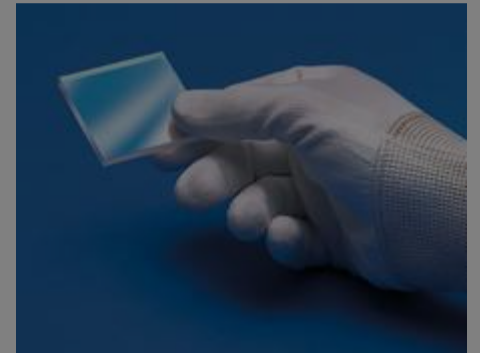
Handling Gratings: Gratings require special handling, making them prone to fingerprints and scratches. Gratings should only be handled by the edges. Before attempting to clean a grating, please [contact us](#).

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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



#48-796 - 50.0mm Dia. x 75.0mm FL, NIR I Coated, Plano-Convex Lens
€72,50

Qty



#48-797 - 50.0mm Dia. x 100.0mm FL, NIR I Coated, Plano-Convex Lens
€70,00

Qty



#49-508 - 50mm Dia. x 50mm FL, NIR I Coated, Double-Convex Lens
€75,00

Qty



#49-510 - 50mm Dia. x 150mm FL, NIR I Coated, Double-Convex Lens
€75,00

Qty

Resources

Media Type

- Glossary
- Application Note
- Video
- FAQ

GLOSSARY
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VIC (NIP)

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Correct
Diffraction...

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