

1200 Grooves, 25mm Square, 750nm NIR Ruled Grating



Stock #43-848 **5 In Stock**

- 1 + C\$259⁰⁰

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Volume Pricing	
Qty 1-9	C\$259.00 each
Qty 10-24	C\$233.10 each
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Product Downloads

General

Reflective Diffraction Grating **Type:**

Physical & Mechanical Properties

25.0 x 25.0 ±0.5 **Dimensions (mm):**

90 **Clear Aperture (%):**

Ruled Grating **Construction:**

Direction of Grooves:
Parallel to Short Dimension

Length (mm):
25.00

Thickness (mm):
9.50 ±0.5

Width (mm):
25.00

Alignment of Grooves to Edge (°):
±0.5

Optical Properties

Groove Density (grooves/mm):
1200

Wavelength Range (nm):
700 - 3000

Blaze Wavelength (nm):
750

Blaze Angle (°):
26.73

Coating:
Bare Gold

Substrate:
Float Glass

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

Product Details

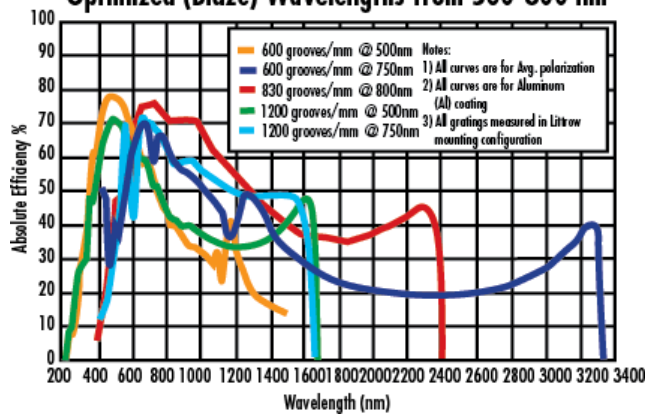
- Increased Reflection from 700 - 1100nm

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.

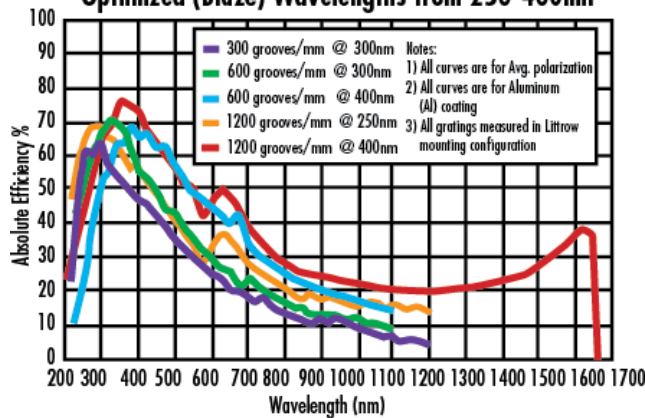
Handling Gratings: Gratings require special handling, making them prone to fingerprints and aerosols. Gratings should only be handled by the edges. Before attempting to clean a grating, please [contact us](#).

Technical Information

**Typical Efficiency Curves for Ruled Gratings
Optimized (Blaze) Wavelengths from 500-800 nm**



**Typical Efficiency Curves for Ruled Gratings
Optimized (Blaze) Wavelengths from 250-400nm**



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

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