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1200 Grooves, 12.7mm Square, 1000nm NIR Ruled Grating



Stock #43-851 **5 In Stock**

MRP ₹15,639

i Price inclusive of all taxes

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Volume Pricing	
Qty 1-9	₹15,639 each
Qty 10-24	₹14,074 each
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General

Reflective Diffraction Grating **Type:**

Physical & Mechanical Properties

12.7 x 12.7 ±0.5 **Dimensions (mm):**

90 **Clear Aperture (%):**

Construction:

Ruled Grating

Direction of Grooves:

Parallel to Short Dimension

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):

1200

Wavelength Range (nm):

700 - 3000

Blaze Wavelength (nm):

1000

Blaze Angle (°):

36.87

Coating:

Bare Gold

Substrate:

Float Glass

Regulatory Compliance

RoHS 2015:

[Compliant](#)

Certificate of Conformance:

[View](#)

Reach 247:

[Compliant](#)

Country of Origin:

United States

Imported By:

Edmund Optics India Private Limited
267, Greystone Building, Second Floor,
6th Cross Rd, Binnamangala,
Stage 1, Indiranagar, Bengaluru,
Karnataka, India 560038
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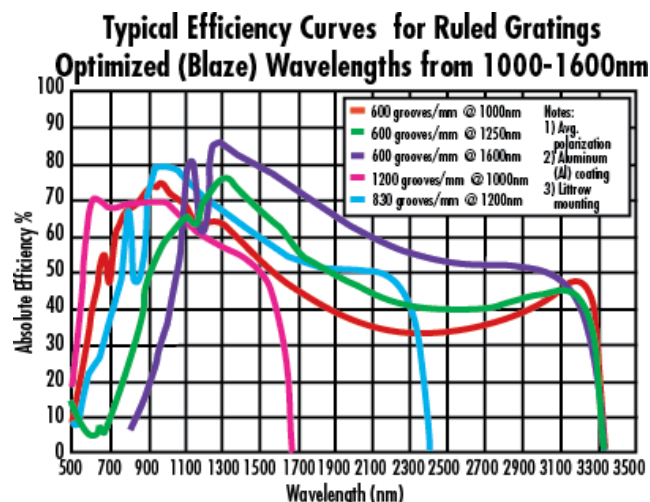
Product Details

- Increased Reflection from 700 - 1100nm

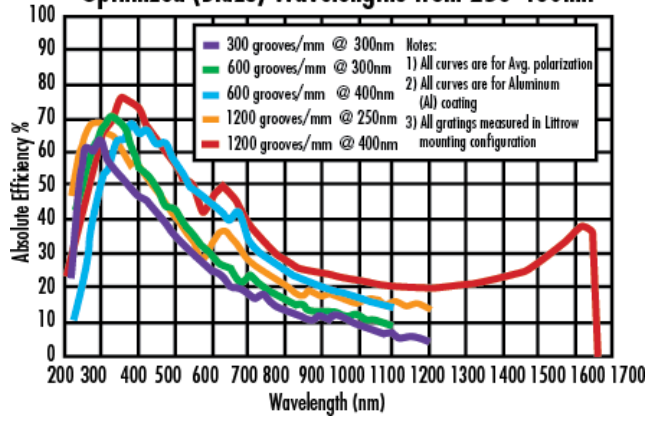
Near-IR (NIR) Reflective Gold Gratings are ruled gold-coated versions of our commercial gratings. These gratings provide increased reflection from 700 - 1100nm. This makes them an excellent choice for applications such as fiber optic pulse compression and spectroscopy setups using [silicon detectors](#). 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 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