

830 Grooves, 12.7mm Square, 800nm NIR Ruled Grating



Stock **#43-849** **3 In Stock**

⊖ 1 ⊕ **€217⁰⁰**

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Volume Pricing	
Qty 1-9	€217.00 each
Qty 10-24	€195.30 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 (%):**

Ruled Grating **Construction:**

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):	
830	
Wavelength Range (nm):	
700 - 3000	
Blaze Wavelength (nm):	
800	
Blaze Angle (°):	
19.38	
Coating:	
Bare Gold	
Substrate: <input type="checkbox"/>	
Float Glass	

Regulatory Compliance

RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 247:	
Compliant	

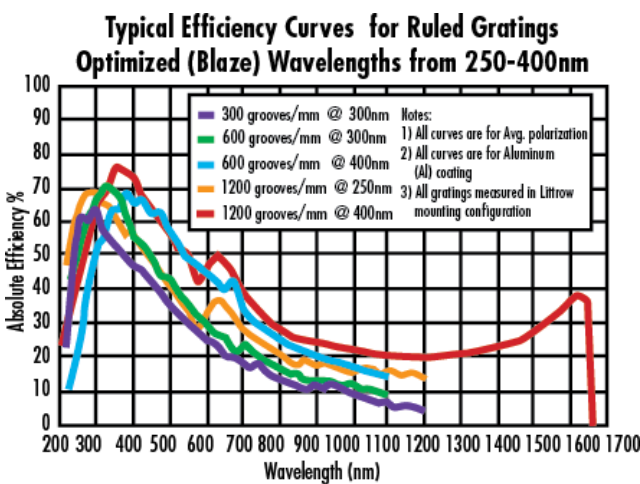
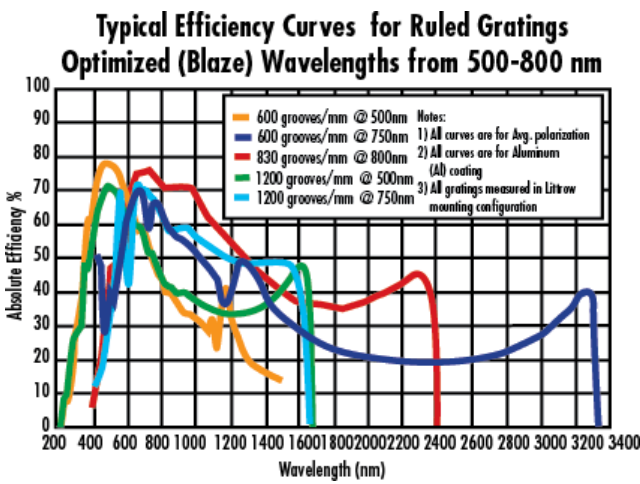
Product Details

- 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



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