

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



Stock **#43-849** 4 In Stock

-

1

+

£124^{.00}

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Volume Pricing	
Qty 1-9	£124.00 each
Qty 10-24	£111.60 each
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 Prices shown are exclusive of VAT/local taxes

Product Downloads

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):
830	
	Wavelength Range (nm):
700 - 3000	
	Blaze Wavelength (nm):
800	
	Blaze Angle (°):
19.38	
	Coating:
Bare Gold	
	Substrate: ☐
Float Glass	

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

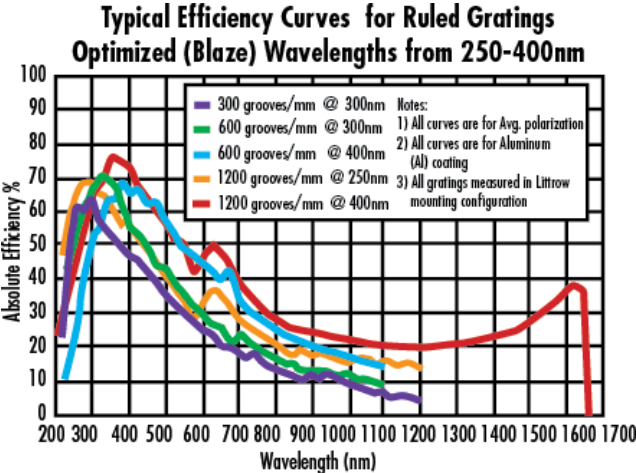
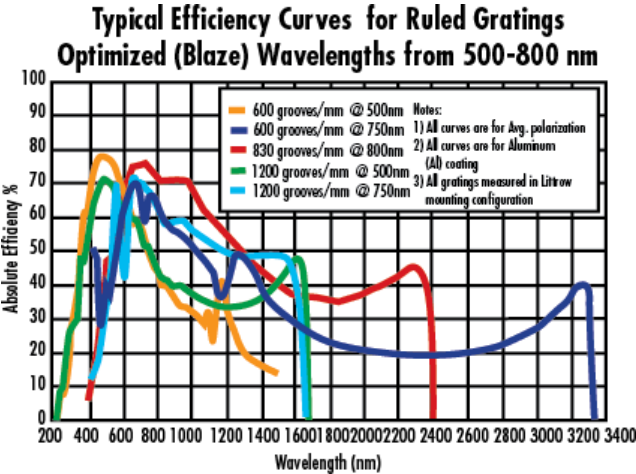
Product Details

• 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



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