1200 Grooves, 30mm Square, 1000nm NIR Ruled Grating
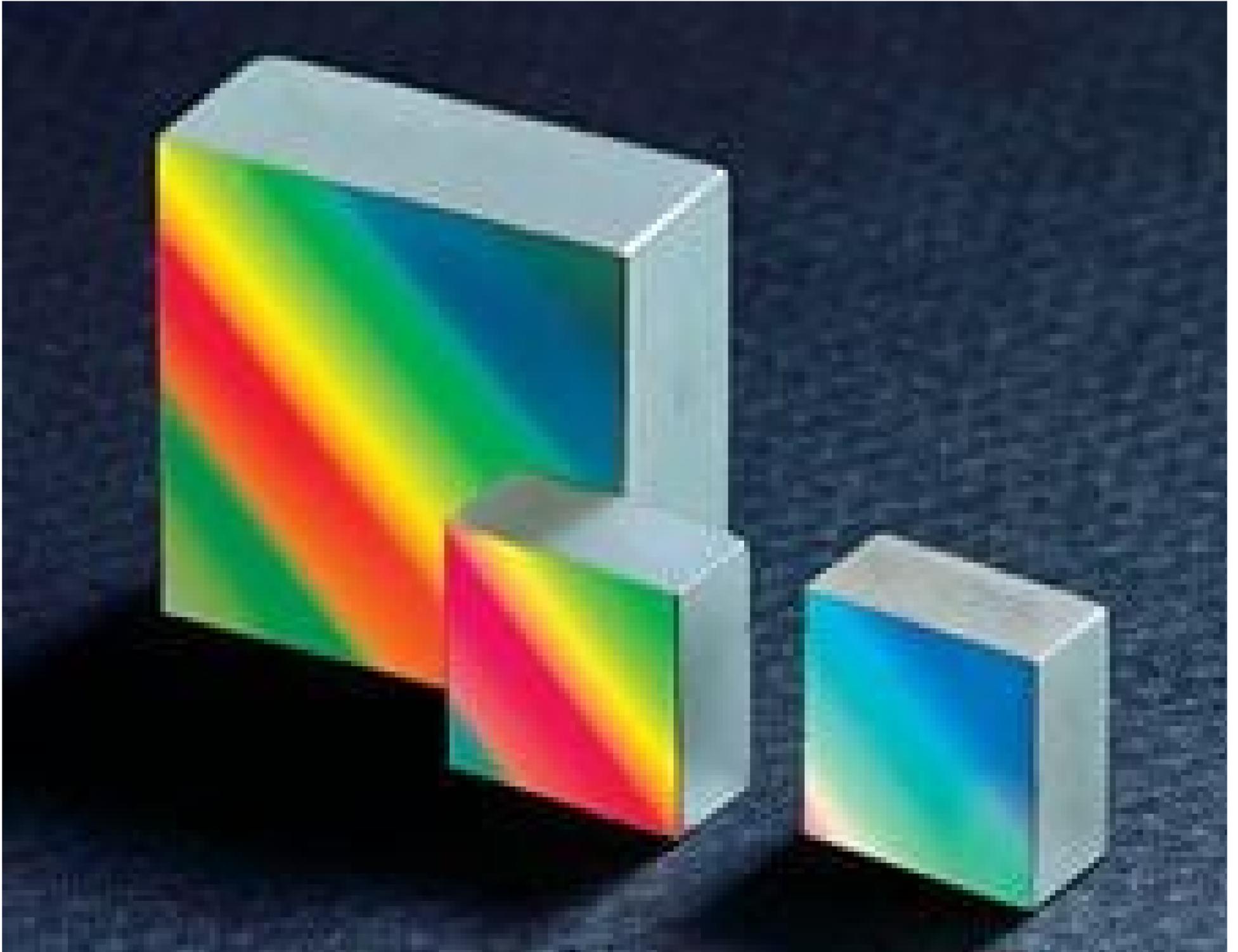
Stock **#55-263**   **20+ In Stock**

⊖ 1 ⊕   **€225**.⁰⁰

ADD TO CART

Volume Pricing	
Qty 1-9	**€225,00** each
Qty 10-24	**€202,50** each
Need More?	**Request Quote**

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

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):
1200	
	Wavelength Range (nm):
700 - 3000	
	Blaze Wavelength (nm):
1000	
	Blaze Angle (°):
36.87	
	Coating:
Bare Gold	
	Substrate:
Float Glass	

Regulatory Compliance

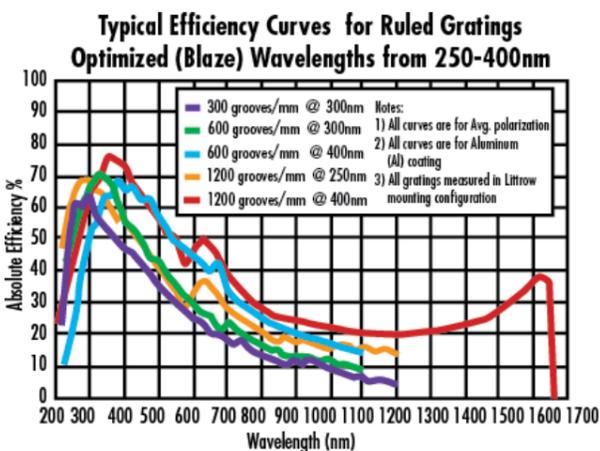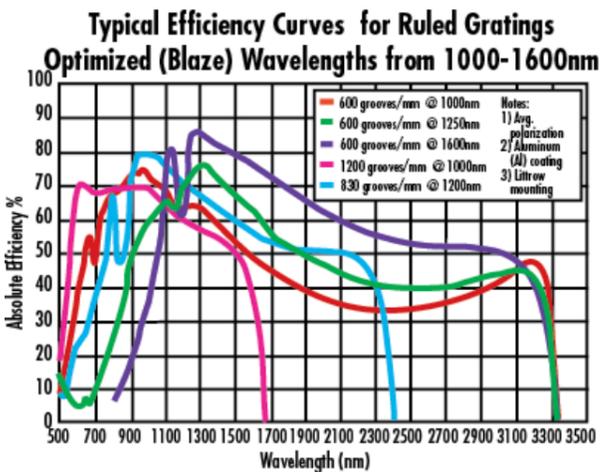|	RoHS 2015:
Compliant	
	Certificate of Conformance:
View	
	Reach 247:
Compliant	

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 1000-1600nm

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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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.