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Richardson Gratings™ 600 Grooves, 12.7 x 12.7mm, Plane Ruled Gold Reflection Grating

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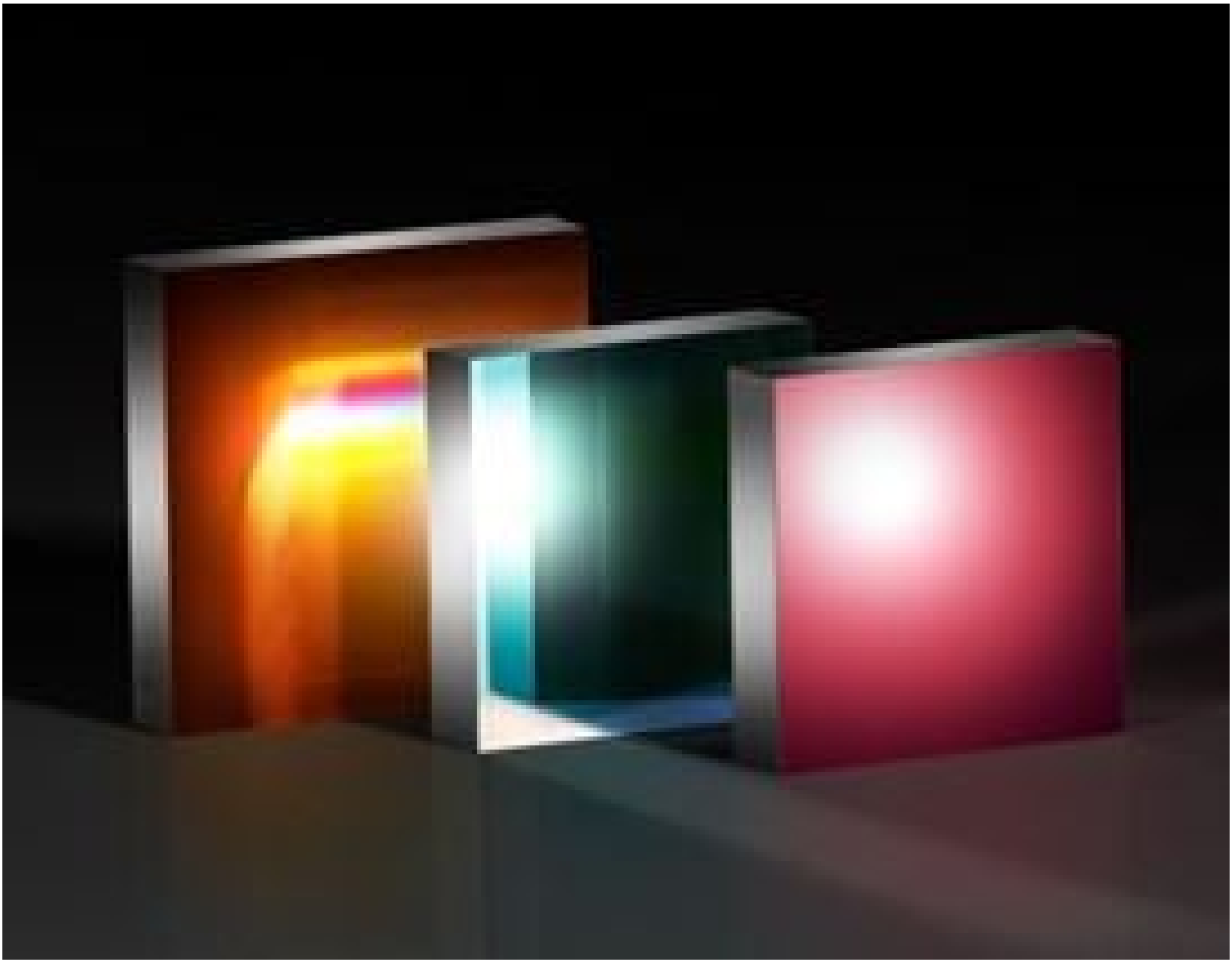

Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings

Stock **#15-775** **14 In Stock**

- 1 + **A$272**.00

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Volume Pricing	
Qty 1-9	**A$272.00** each
Qty 10-24	**A$244.00** each
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Product Downloads

General

Type:
Reflective Diffraction Grating

Master Reference:
260R

Physical & Mechanical Properties

Dimensions (mm):
12.7 x 12.7 ±0.1

Clear Aperture (%):
>90

Construction:
Ruled Grating

Length (mm):
12.70

Thickness (mm):
6.00 ±0.5

Width (mm):
12.70

Centering of Ruled Area on Substrate (mm):
±1

Alignment of Grooves to Edge (°):
±0.15

Groove Spacing Tolerance (%):
<0.05

Optical Properties

Groove Density (grooves/mm):
600

Wavelength Range (nm):
350 - 800

Blaze Wavelength (nm):
500

Blaze Angle (°):
8.6

Coating:
Gold

Substrate:
Float Glass

Reflected Wavefront, RMS:
λ/4

Polarization:
S, P and Average

Spectral Order (m):
1

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- Optimized for use from 350-800nm (500nm) or 700-1600nm (1000nm)
- Available in standard sizes 12.7 x 12.7, 25 x 25 and 30 x 30mm
- Groove Spacing Tolerance <0.05%
- Custom Sizes Available

Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings are gold coated versions of the Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Gratings. They are available with blaze wavelengths 500nm or 1000nm and optimized for use at 350-800nm or 700-1600nm respectively. These ruled gratings are characterized by a superior efficiency at their design wavelength compared with holographic gratings. Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings are an excellent choice for spectroscopy setups using silicon detectors or fiber-optic telecommunication applications for which higher reflectivity in NIR/IR spectral regions is required. Custom sizes are available on request.

Note: The surface of these gratings is very sensitive and should never be touched when handling the optic. If cleaning is required, i.e. to remove dust particles, non-contact cleaning using clean compressed air is recommended.

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