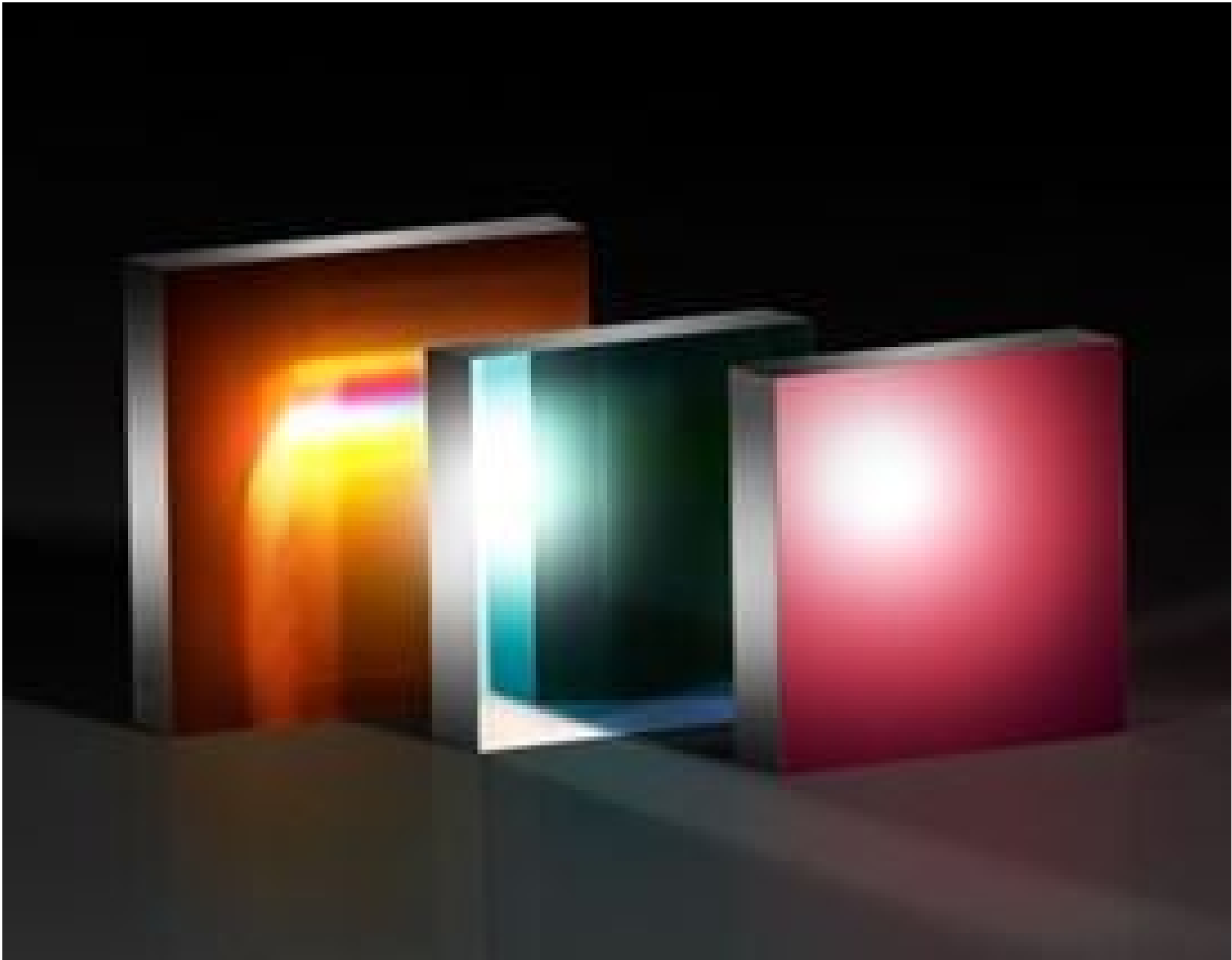


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# Richardson Gratings™ 600 Grooves, 25 x 25mm, Plane Ruled Gold Reflection Grating

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Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings



Stock **#15-776** **9 In Stock**

-

1

+

A\$328<sup>00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | A\$328.00 each                |
| Qty 10-24      | A\$294.40 each                |
| Need More?     | <a href="#">Request Quote</a> |

Product Downloads

General

Type:

Reflective Diffraction Grating

Master Reference:

260R

Physical & Mechanical Properties

|                       |                                            |
|-----------------------|--------------------------------------------|
| 25.0 x 25.0 ±0.1      | Dimensions (mm):                           |
| >90                   | Clear Aperture (%):                        |
| Ruled Grating         | Construction:                              |
| 25.00                 | Length (mm):                               |
| 6.00 ±0.5             | Thickness (mm):                            |
| 25.00                 | Width (mm):                                |
| ±1                    | Centering of Ruled Area on Substrate (mm): |
| ±0.15                 | Alignment of Grooves to Edge (°):          |
| <0.05                 | Groove Spacing Tolerance (%):              |
| Optical Properties    |                                            |
| 600                   | Groove Density (grooves/mm):               |
| 350 - 800             | Wavelength Range (nm):                     |
| 500                   | Blaze Wavelength (nm):                     |
| 8.6                   | Blaze Angle (°):                           |
| Gold                  | Coating:                                   |
| Float Glass           | Substrate: □                               |
| λ/4                   | Reflected Wavefront, RMS:                  |
| S, P and Average      | Polarization:                              |
| 1                     | Spectral Order (m):                        |
| Regulatory Compliance |                                            |
| <a href="#">View</a>  | Certificate of Conformance:                |

## 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.