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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 #15-778 **13 In Stock**

⊖ 1 ⊕ A\$272.<sup>00</sup>

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Volume Pricing	
Qty 1-9	A\$272.00 each
Qty 10-24	A\$244.00 each
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**General**

Reflective Diffraction Grating **Type:**

520R **Master Reference:**

**Physical & Mechanical Properties**

12.7 x 12.7 ±0.1	<b>Dimensions (mm):</b>
>90	<b>Clear Aperture (%):</b>
Ruled Grating	<b>Construction:</b>
12.70	<b>Length (mm):</b>
6.00 ±0.5	<b>Thickness (mm):</b>
12.70	<b>Width (mm):</b>
±1	<b>Centering of Ruled Area on Substrate (mm):</b>
±0.15	<b>Alignment of Grooves to Edge (°):</b>
<0.05	<b>Groove Spacing Tolerance (%):</b>
<b>Optical Properties</b>	
600	<b>Groove Density (grooves/mm):</b>
700 - 1600	<b>Wavelength Range (nm):</b>
1000	<b>Blaze Wavelength (nm):</b>
17.5	<b>Blaze Angle (°):</b>
Gold	<b>Coating:</b>
Float Glass	<b>Substrate:</b> <input type="checkbox"/>
λ/4	<b>Reflected Wavefront, RMS:</b>
S, P and Average	<b>Polarization:</b>
1	<b>Spectral Order (m):</b>

<b>Regulatory Compliance</b>	
<a href="#">View</a>	<b>Certificate of Conformance:</b>

## 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.