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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 ⊕ **\$238⁰⁰**

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Volume Pricing	
Qty 1-9	\$238.00 each
Qty 10-24	\$213.50 each
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General

Reflective Diffraction Grating **Type:**

520R **Master Reference:**

Physical & Mechanical Properties

12.7 x 12.7 ±0.1	Dimensions (mm):
>90	Clear Aperture (%):
Ruled Grating	Construction:
12.70	Length (mm):
6.00 ±0.5	Thickness (mm):
12.70	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):
700 - 1600	Wavelength Range (nm):
1000	Blaze Wavelength (nm):
17.5	Blaze Angle (°):
Gold	Coating:
Float Glass	Substrate: <input type="checkbox"/>
λ/4	Reflected Wavefront, RMS:
S, P and Average	Polarization:
1	Spectral Order (m):

Regulatory Compliance	
View	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.