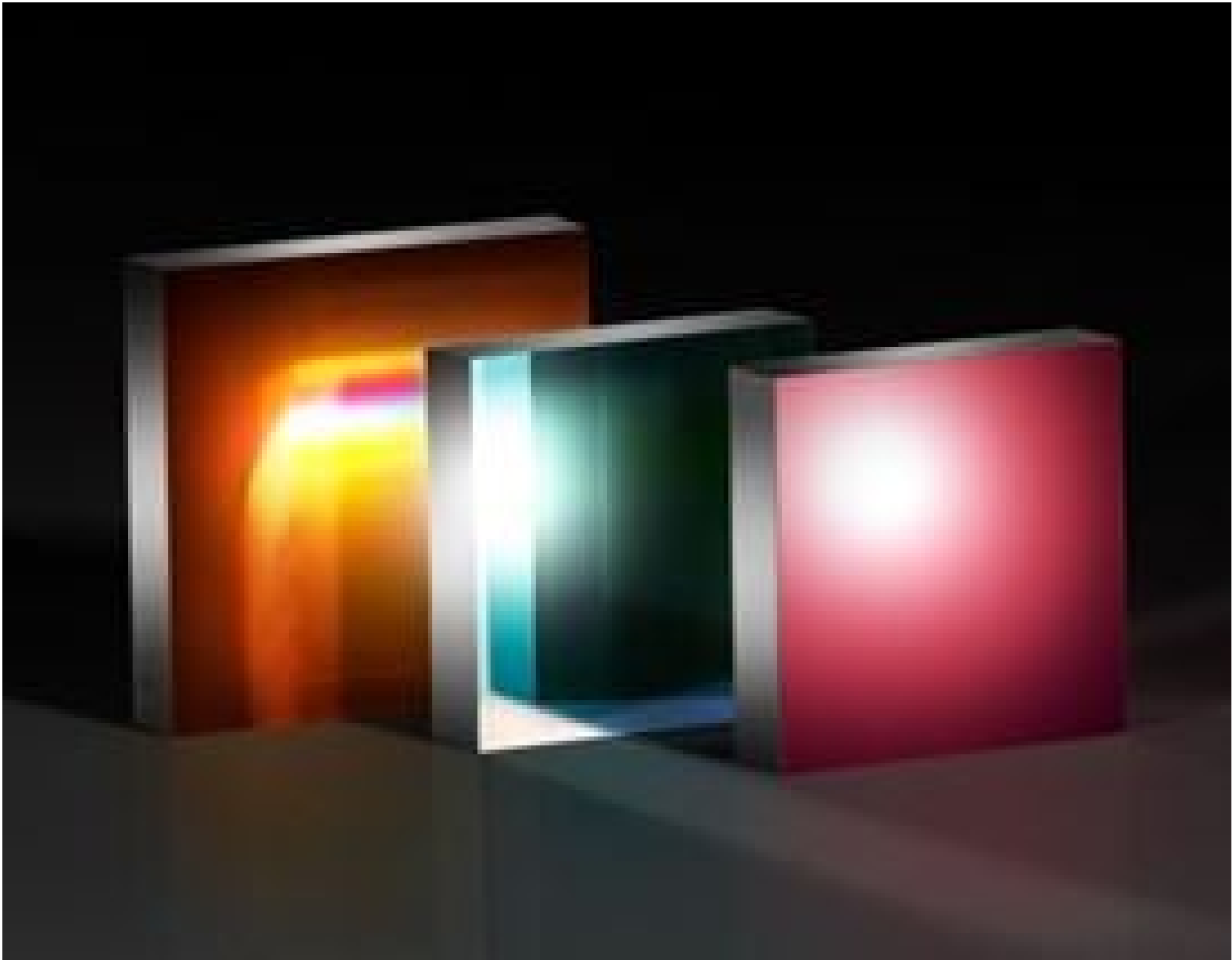


Richardson Gratings™ 600 Grooves, 30 x 30mm, Plane Ruled Gold Reflection Grating

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Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings



Stock #15-780 12 In Stock

-

1

+

£176<sup>.00</sup>

ADD TO CART

| Volume Pricing |                               |
|----------------|-------------------------------|
| Qty 1-9        | £176.00 each                  |
| Qty 10-24      | £158.00 each                  |
| Need More?     | <a href="#">Request Quote</a> |

!

 Prices shown are exclusive of VAT/local taxes

Product Downloads

SPECIFICATIONS

General

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| Reflective Diffraction Grating   | Type:                                      |
| 520R                             | Master Reference:                          |
| Physical & Mechanical Properties |                                            |
| 30.0 x 30.0 ±0.1                 | Dimensions (mm):                           |
| >90                              | Clear Aperture (%):                        |
| Ruled Grating                    | Construction:                              |
| 30.00                            | Length (mm):                               |
| 6.00 ±0.5                        | Thickness (mm):                            |
| 30.00                            | 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):               |
| 700 - 1600                       | Wavelength Range (nm):                     |
| 1000                             | Blaze Wavelength (nm):                     |
| 17.5                             | Blaze Angle (°):                           |
| Gold                             | Coating:                                   |
| Float Glass                      | Substrate: □<br>.....                      |
| 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.