

[See all 12 Products in Family](#)

## 830 Grooves/mm, 50mm Sq, UV Transmission Grating Beamsplitter



Stock #85-299 **1 In Stock**

- 1 + \$511.<sup>00</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-9	\$511.00 each
Qty 10-24	\$459.90 each
Qty 25+	\$383.25 each
Need More?	<a href="#">Request Quote</a>

### Product Downloads

#### General

Transmission Diffraction Grating **Type:**

#### Physical & Mechanical Properties

50.00 x 50.00 **Dimensions (mm):**

90 **Clear Aperture (%):**

Blazed Grating	<b>Construction:</b>
50.00	<b>Length (mm):</b>
2.00 ±0.5	<b>Thickness (mm):</b>
50.00	<b>Width (mm):</b>
±0.5	<b>Alignment of Grooves to Edge (°):</b>

### Optical Properties

830	<b>Groove Density (grooves/mm):</b>
250 - 450	<b>Wavelength Range (nm):</b>
19.4	<b>Blaze Angle (°):</b>
<a href="#">Fused Silica</a> (Coming 7980)	<b>Substrate:</b> <input type="checkbox"/>

### Regulatory Compliance

<a href="#">Compliant</a>	<b>RoHS 2015:</b>
<a href="#">View</a>	<b>Certificate of Conformance:</b>
<a href="#">Compliant</a>	<b>Reach 247:</b>

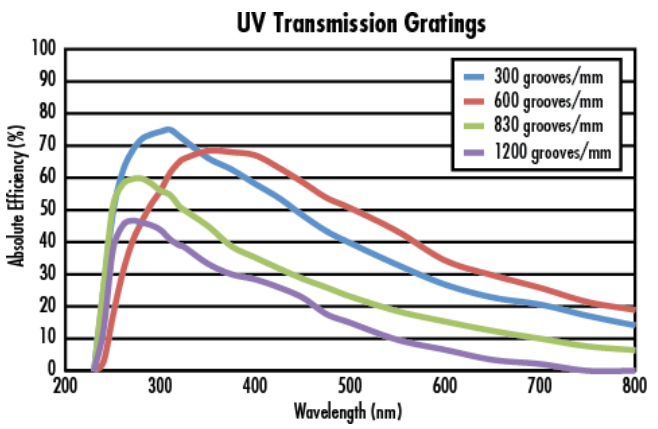
## Product Details

- Multiple Diffraction Angles Available
- UV Grade Fused Silica Substrate
- Ideal for Fixed Grating Applications

Ideal for spectrographs and other compact systems using small detector arrays, UV Transmission Gratings are a simplistic means of dispersing light for fixed grating applications in the 250 – 450nm wavelength range. As incident light strikes the UV Transmission Gratings' coarse groove spacing, it is dispersed on the opposite side of the grating at a fixed angle. As groove spacing increases, the diffraction angle decreases. UV Transmission Gratings are relatively polarization insensitive and are fairly insensitive to alignment errors.

**Handling Gratings:** Gratings require special handling, making them prone to fingerprints and aerosols. Gratings should only be handled by the edges. Before attempting to clean a grating, please [contact us](#).

## Technical Information



## Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools