

1200 Grooves/mm, 25mm Square, UV Holographic Grating



Reflective Holographic Gratings

Stock #48-465 **5 In Stock**

MRP ₹19,674

i Price inclusive of all taxes

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Volume Pricing	
Qty 1-9	₹19,674 each
Qty 10-24	₹17,706 each
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General

Reflective Diffraction Grating **Type:**

Physical & Mechanical Properties

25.0 x 25.0 ±0.5 **Dimensions (mm):**

Holographic Grating **Construction:**

25.00	Length (mm):
9.50 ±0.5	Thickness (mm):
25.00	Width (mm):
±0.5	Alignment of Grooves to Edge (°):

Optical Properties

1200	Groove Density (grooves/mm):
250 - 400	Wavelength Range (nm):
Bare Aluminum	Coating:
Float Glass	Substrate: <input type="checkbox"/>
UV	Wavelength:
74	Absolute Peak Efficiency, Typical (%):
>69	Peak Efficiency Avg, Typical (%):

Regulatory Compliance

Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:
United States	Country of Origin:
Edmund Optics India Private Limited 267, Greystone Building, Second Floor, 6th Cross Rd, Binnamangala, Stage 1, Indiranagar, Bengaluru, Karnataka, India 560038 Phone: +91- 80-6845 0000	Imported By:

Product Details

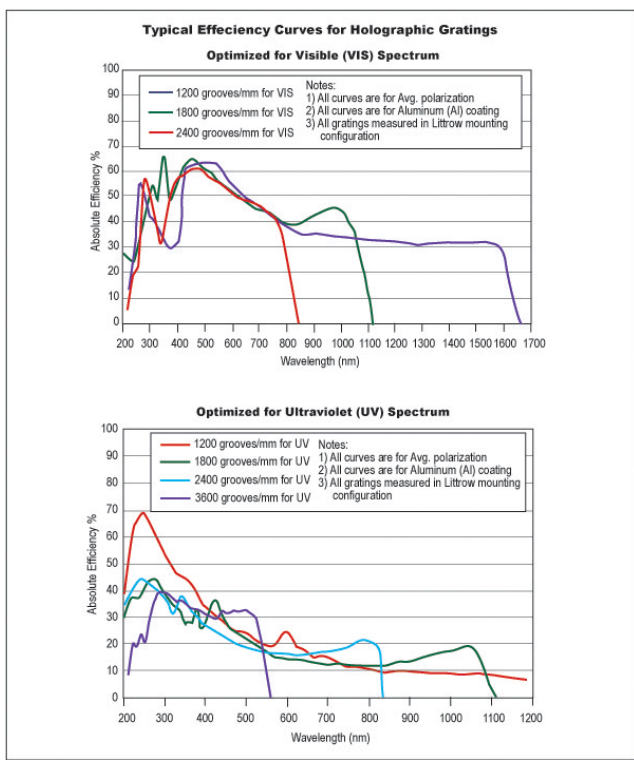
- Groove Density up to 3600 Grooves per mm
- Bare Aluminum Coating
- Sinusoidal Grating Profile
- Available Wavelength Range of 250 - 1500nm

Holographic gratings are formed by an interference fringe field of two laser beams whose standing wave pattern is exposed to a polished substrate coated with photoresist. Processing of the exposed medium results in a pattern of straight lines with a sinusoidal cross section.

Holographic gratings produce less stray light than ruled gratings. They can also be produced with up to 3600 grooves per millimeter for greater theoretical resolving power. Due to their sinusoidal cross section, holographic gratings cannot be easily blazed and their efficiency is usually considerably less than a comparable ruled grating. There are, however, special exceptions which should be noted. When groove spacing to wavelength ratio is near one, a holographic grating has virtually the same efficiency as the ruled version. Also, a holographic grating with 1800 grooves per millimeter has the same efficiency at 500nm as a blazed ruled grating. Holographic master gratings are replicated by a process identical to that used for ruled gratings.

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