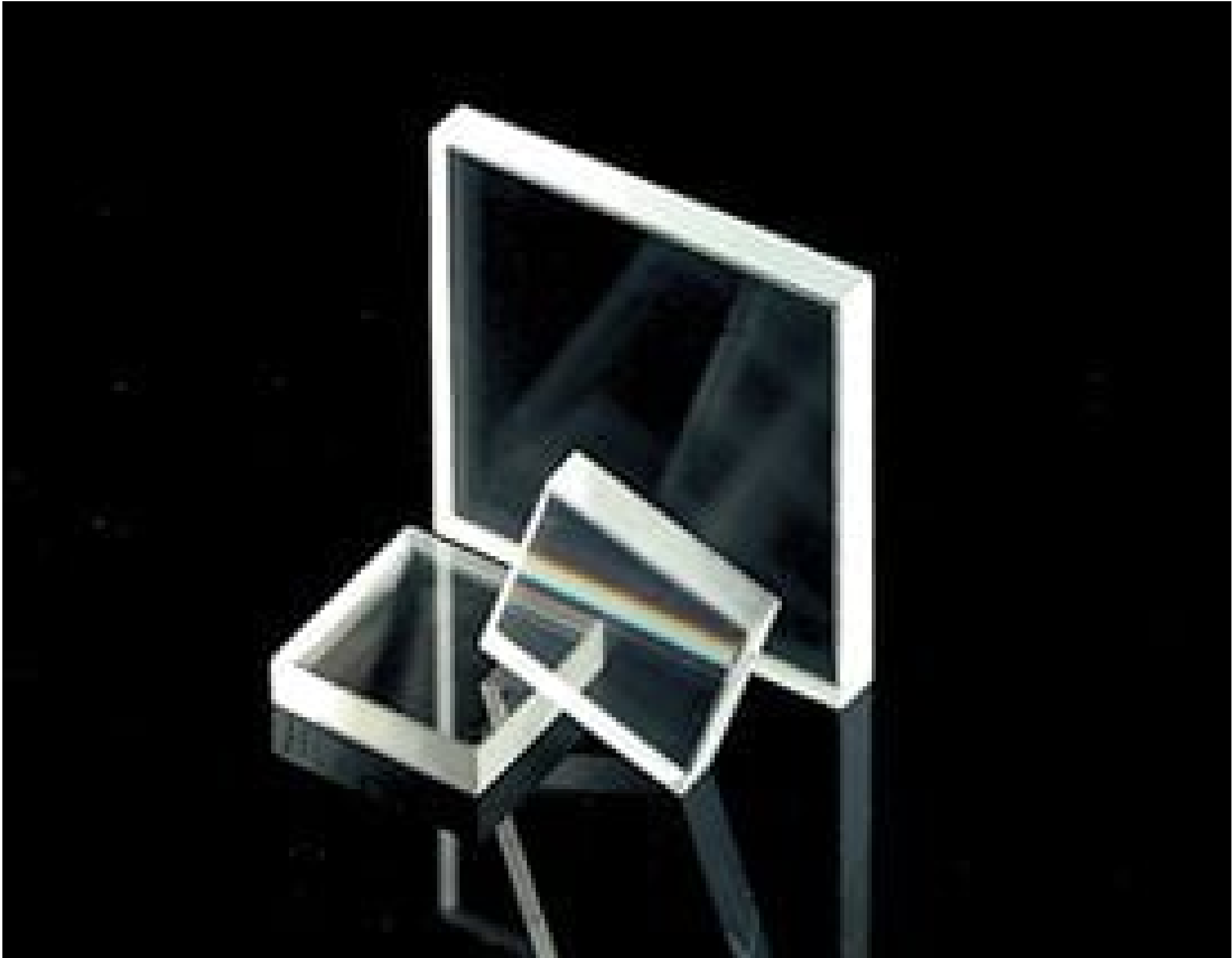


70 Grooves/mm, 12.7mm Sq, Transmission Grating Beamsplitter



Stock **#46-067** 12 In Stock

-

1

+

€155^{.00}

ADD TO CART

Volume Pricing	
Qty 1-9	€155,00 each
Qty 10-24	€139,50 each
Qty 25+	€116,25 each
Need More?	Request Quote

ⓘ Prices shown are exclusive of VAT/local taxes

Product Downloads

General

Transmission Diffraction Grating

Type:

Physical & Mechanical Properties

12.7 x 12.7 ±0.5

Dimensions (mm):

90

Clear Aperture (%):

Blazed Grating	Construction:
12.70	Length (mm):
3.00 ±0.5	Thickness (mm):
12.70	Width (mm):

Optical Properties	
70	Groove Density (grooves/mm):
632.8	Design Wavelength DWL (nm):
B270	Substrate: ☐

Regulatory Compliance	
Compliant	RoHS 2015:
View	Certificate of Conformance:
Compliant	Reach 247:

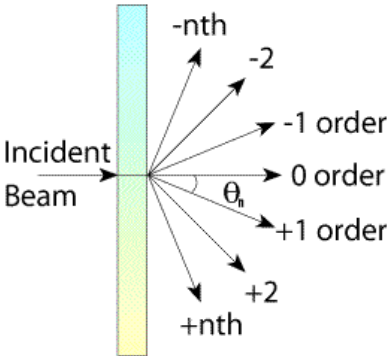
Product Details

• Ideal for Laser Beam Division
• Designed for 0 Degree AOI
• Low Groove Density for Maximized Beam Separation

Transmission Grating Beamsplitters are commonly used for laser beam division and multiple laser line separation in visible wavelengths. The transmitted beam is diffracted into multiple orders. Edmund Optics' transmission grating beamsplitters consist of an index-matched epoxy replica on a polished glass substrate for a high total efficiency. Transmission Grating Beamsplitters are available in several gratings, offering different dispersion and power distributions. The diffraction angle for any wavelength may be calculated using the grating equation for normal incident light.

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



He-Ne Diffracted Order Typical Distribution @ 632nm (%)					Stock No.	
2	-1	0	+1	+2	12.7mm x 12.7mm	25mm x 25mm
—	—	41	32	—	#46-067	#46-068
5	25	25	25	5	#46-069	#46-070
—	20	45	20	—	#46-071	#46-072
—	25	28	25	—	#46-073	#46-074

A diagram illustrating the diffraction of an incident beam by a transmission grating. The incident beam, labeled "Incident Beam", is shown as a horizontal arrow pointing from the left towards a vertical grating. The grating is represented by a vertical bar with a blue-to-yellow gradient. From the point of incidence, several diffracted beams emerge at different angles, labeled as follows: "-nth", "-2", "-1 order", "0 order", "+1 order", "+2", and "+nth". The angle between the incident beam and the 0th order beam is labeled θ_n .

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

Compatible Mounts