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TECHSPEC®

50 x 50mm 50R/50T, VIS Plate Beamsplitter



Visible and NIR Plate Beamsplitters

Stock **#45-854**

CONTACT US

-

1

+

C\$368²⁰

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Volume Pricing	
Qty 1-5	C\$368.20 each
Qty 6-25	C\$287.00 each
Qty 26-99	C\$266.00 each
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Product Downloads

General

Note:

Beamsplitter-coated side is marked with a black dot

Type:

Standard Beamsplitter

Physical & Mechanical Properties

Clear Aperture (%):

>85

Construction:	
Plate	
Dimensions (mm):	
50.0 x 50.0 +0.0/-0.25	
Edges:	
Cut with 0.25mm maximum edge chip	
Parallelism (arcmin):	
≤3	
Thickness (mm):	
3.00 ±0.25	

Optical Properties	
Angle of Incidence (°):	
45	
Coating Specification:	
Surface 1: 50/50 ±5% @ 550nm, ±10% @ 400 - 700nm	
Surface 2: AR R _{avg} ≤1%, R _{abs} ≤2% @ 400 - 700nm	
Reflection/Transmission Ratio (R/T):	
50/50	
Substrate: ☐	
N-BK7	
Surface Flatness (P-V):	
1λ per inch	
Surface Quality:	
60-40	
Wavelength Range (nm):	
400 - 700	

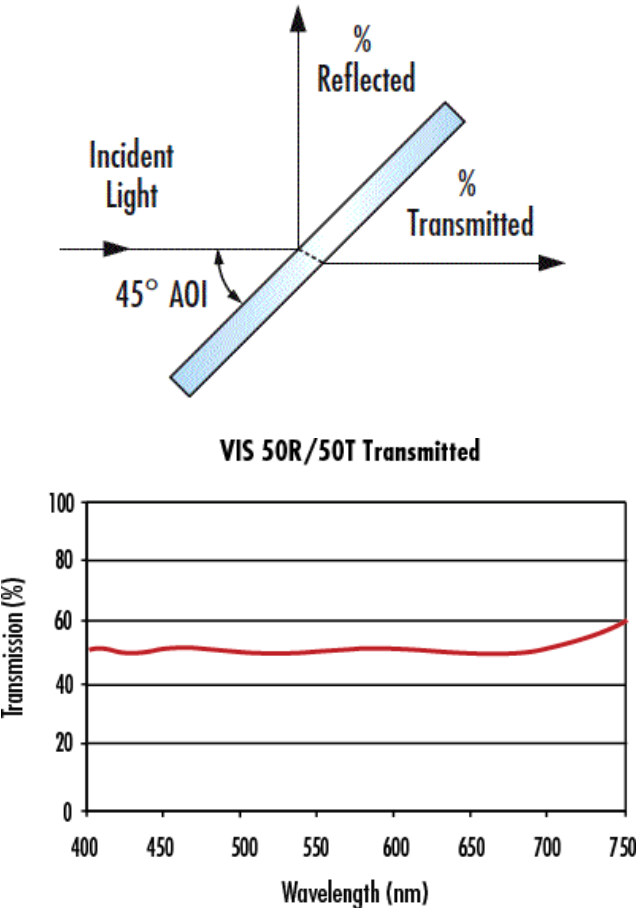
Regulatory Compliance	
RoHS 2015:	
Compliant	
Certificate of Conformance:	
View	
Reach 247:	
Compliant	

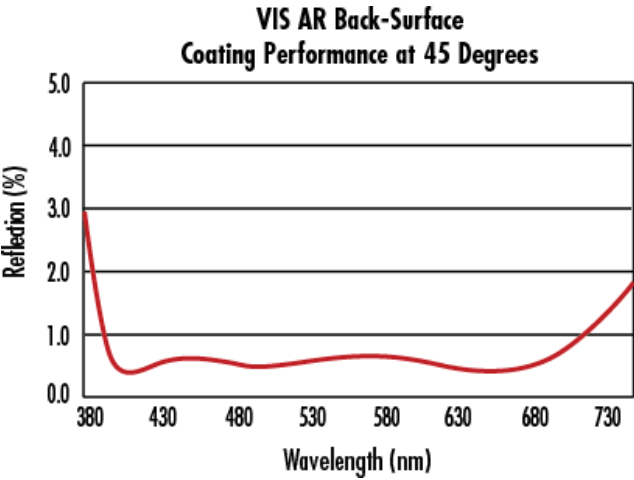
Product Details

- Many Beamsplitting Ratios Available
- Visible and NIR Coating Options Offered
- Multi-Layer AR Coated Second Surface
- [C-Mounted Plate Beamsplitters](#) Also Available

TECHSPEC® Visible and NIR Plate Beamsplitters are ideal for dual magnification [imaging](#) systems and for combining low power [laser](#) beams. These beamsplitters offer the optimum combination of polished, high-quality optical-grade glass with minimum substrate thickness. The broadband dielectric coatings provide maximum throughput, are ideal for minimizing ghost images, and have much less energy loss than metallic coatings. TECHSPEC® Visible and NIR Plate Beamsplitters are coated on their back surfaces with a multi-layer anti-reflection (AR) coating, reducing back reflections to less than 1.0% for each wavelength range. Note that for easy identification, the coated side of the beamsplitter is marked with a black dot.

Technical Information





Custom

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

Compatible Mounts