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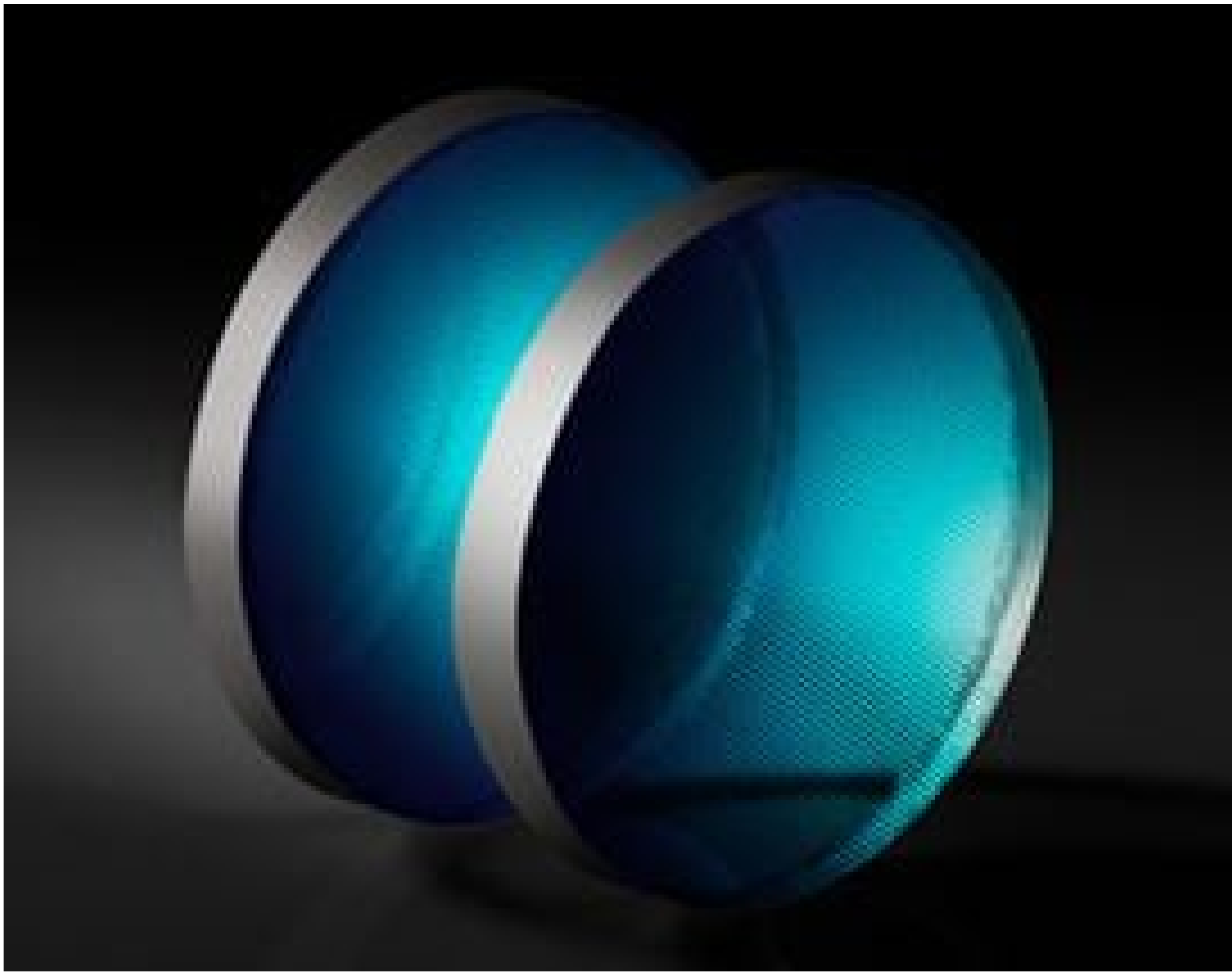
12.7mm Dia 50R/50T, VIS-NIR Polka-Dot Beamsplitters



VIS-NIR Polka-Dot Beamsplitters

Stock **#15-983** **20+ In Stock**

- 1 + **C$187**.60

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Volume Pricing	
Qty 1-10	**C$187.60** each
Qty 11-25	**C$159.60** each
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General

Type:

Standard Beamsplitter

Physical & Mechanical Properties

Center to Center Spacing (mm):

0.15

Clear Aperture (%):

90

Construction:

Polka-Dot

Diameter (mm):
12.70 +0.0/-0.5

Parallelism (arcmin):
<3

Thickness (mm):
1.65 ±0.1

Optical Properties

Angle of Incidence (°):
0 - 45

Coating:
Square Aluminum ($AlMgF_2$) Apertures

Minimum Aperture (mm):
2.00

Reflection/Transmission Ratio (R/T):
50/50

Reflection/Transmission Tolerance (%):
±5 @ 45°

Substrate:
B270

Surface Quality:
80-50

Wavelength Range (nm):
400 - 2000

Environmental & Durability Factors

Operating Temperature (°C):
150 Maximum

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 247:
Compliant

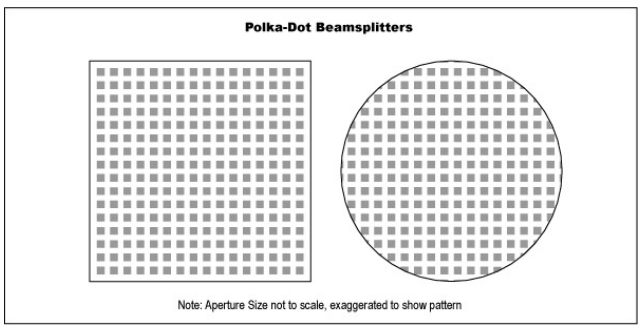
Product Details

- 50/50 and 30/70 Reflection/Transmission Ratios Available
- B270 Substrates for High Performance from 400 – 2000nm
- UV-NIR Versions Available

VIS-NIR Polka-Dot Beamsplitters feature a constant reflection/transmission ratio over the VIS to NIR spectrum. A vacuum deposited enhanced aluminum coating on SCHOTT B270 substrates, with fixed square apertures guarantees 30/70, 50/50 reflection/transmission ratios from 400 to 2000nm. Incident light is reflected by the coated area and is transmitted through the surrounding uncoated substrate. VIS-NIR Polka-Dot Beamsplitters are not angle sensitive, therefore they are ideal for splitting energy from a radiant light source with a beam diameter of at least 2mm. These beamsplitters are especially useful with broadband, extended sources, such as tungsten, halogen, and xenon lamps, and for use in monochromators, spectrophotometers, and other optical systems.

Note: The surface of these beamsplitters is very sensitive and should never be touched when handling the optic. If cleaning is required to remove dust particles, non-contact cleaning using clean compressed air is recommended.

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.

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

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