

[See all 6 Products in Family](#)

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



VIS-NIR Polka-Dot Beamsplitters

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

MRP ₹13,519

Price inclusive of all taxes

ADD TO CART

Volume Pricing	
Qty 1-10	₹13,519 each
Qty 11-25	₹11,501 each
Need More?	Request Quote

Product Downloads

General

Standard Beamsplitter **Type:**

Physical & Mechanical Properties

0.15 **Center to Center Spacing (mm):**

90 **Clear Aperture (%):**

Polka-Dot	Construction:
12.70 +0.0/-0.5	Diameter (mm):
<3	Parallelism (arcmin):
1.65 ±0.1	Thickness (mm):

Optical Properties

0 - 45	Angle of Incidence (°):
Square Aluminum (AlMgF ₂) Apertures	Coating:
2.00	Minimum Aperture (mm):
50/50	Reflection/Transmission Ratio (R/T):
±5 @45°	Reflection/Transmission Tolerance (%):
B270	Substrate: □
80-50	Surface Quality:
400 - 2000	Wavelength Range (nm):

Environmental & Durability Factors

150 Maximum	Operating Temperature (°C):
-------------	------------------------------------

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:

Need different specs or modifications?

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](#).

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.



Component Handling Tools

Compatible Mounts

;