

25.4mm Dia 70R/30T, UV-NIR Polka-Dot Beamsplitter



Stock #47-608 2 In Stock

1 C\$305^{.20}

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Volume Pricing	
Qty 1-10	C\$305.20 each
Qty 11-25	C\$253.40 each
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Product Downloads	
STEP:step	PDF Drawing:pdf
IGES:igs	eDrawing:eprt
EO Spec Sheet	Download All

General

Type: Standard Beamsplitter

Physical & Mechanical Properties

Center to Center Spacing (mm):	0.15	Clear Aperture (%):	90
Construction:	Polka-Dot	Diameter (mm):	25.40
Dimensional Tolerance (mm):	+0.0/-0.5	Parallelism (arcmin):	<3
Thickness (mm):	1.50 ±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):	75/25
Reflection/Transmission Tolerance (%):	±1.0 @ 45°	Substrate:	Fused Silica (Corning 7980)
Surface Quality:	80-50	Wavelength Range (nm):	250 - 2000

Environmental & Durability Factors

Operating Temperature (°C): 150 Maximum

Regulatory Compliance

RoHS 2015: [Compliant](#)

Certificate of Conformance: [View](#)

Reach 247: [Compliant](#)

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

- Various Beamsplitting Ratios Available
- Insensitive to Angle of Incidence Changes
- [VIS-NIR](#) Versions Available

UV-NIR Polka-Dot Beamsplitters feature a constant reflection/transmission ratio over a large spectral range. A vacuum deposited enhanced aluminum coating on fused silica substrates with fixed square apertures guarantees 30/70, 50/50, or 70/30 reflection/transmission ratios from 250 to 2000nm. Incident light is reflected by the coated area and is transmitted through the surrounding uncoated substrate. Since UV-NIR Polka-Dot Beamsplitters are not angle sensitive, 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, deuterium, 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.

Polka-Dot Beamsplitters offer no significant divergence from diffraction, nor are there performance issues with polarized sources. These beamsplitters are ideal for use with broadband, extended sources, such as tungsten, halogen, deuterium, and xenon lamps, and for use in monochromators, spectrophotometers, and other optical systems.

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

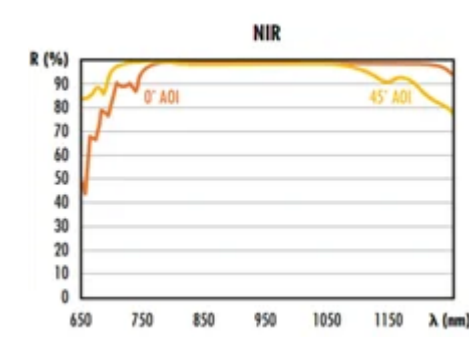
Frequently Purchased Together



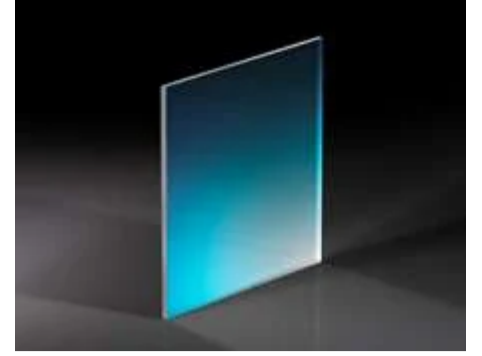
#46-458 - 25.4mm Dia 50R/50T,
UV-NIR Polka-Dot Beamsplitter
C\$305.20



#47-604 - 25.4mm Dia 30R/70T,
UV-NIR Polka-Dot Beamsplitter
C\$305.20


















#33-189 - 50mm Dia. 750 - 1100nm
Broadband λ/10 Mirror
C\$334.60



#46-459 - 25.4mm Sq 50R/50T, UV-
NIR Polka-Dot Beamsplitter
C\$305.20

Compatible Mounts

	Title	Type	Compare	Stock Number	Price	Buy
	25.0/25.4mm Optic Dia., SM1 Thin Mount, M4	Fixed		#13-787	C\$29.40 Request Quote	9 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., SM1 Thin Mount, 8-32	Fixed		#13-788	C\$29.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.4mm Optic Dia., 10mm Max Optic Thickness, Optic Mount	Fixed		#64-561	C\$45.85 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.4mm Optic Dia., 13mm Max Optic Thickness, Optic Mount	Fixed		#64-562	C\$45.85 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot Direct Mount	Fixed		#36-410	C\$95.20 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Side Flange Direct Mount	Fixed		#36-414	C\$99.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., L-Slot and Rotation Direct Mount	Adjustable - Rotary		#36-411	C\$142.80 Request Quote	5 In Stock <input type="text" value="1"/>
	25.0/25.4mm Optic Dia., Optical Cell Assembly	Fixed		#36-461 CLEARANCE	C\$143.93 Request Quote	2 In Stock <input type="text" value="1"/>
	7.0 - 40.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-676	C\$148.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	10.0 - 60.0mm Optic Height, Metric Bar-Type Optic Holder	Fixed		#55-530	C\$151.20 Request Quote	CONTACT US <input type="text" value="1"/>
	7.0 - 67.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-669	C\$162.40 Request Quote	20+ In Stock <input type="text" value="1"/>
	8.0 - 118.0 Optic Height, English Bar-Type Optic Holder	Fixed		#03-666	C\$168.00 Request Quote	20+ In Stock <input type="text" value="1"/>
	4.0 - 36.0mm Optic Dia., Self- Centering Jaw Clamp	Fixed		#16-077	C\$219.80 Request Quote	5 In Stock <input type="text" value="1"/>

	Title	Type	Compare	Stock Number	Price	Buy
 	25.0/25.4mm Optic Dia., X-Y Translating Optic Mount	Adjustable - Linear (XY)		#62-956	C\$386.40 Request Quote	CONTACT US <input type="text" value="1"/> 
 	5.0 - 100.0mm Optic Dia., Self-Centering Jaw Clamp	Fixed		#16-078	C\$574.00 Request Quote	CONTACT US <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., Precision Gimbal Mount	Adjustable - Gimbal		#54-999	C\$645.40 Request Quote	4 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., X-Y-Z Translating Optic Mount	Adjustable - Linear (XYZ)		#62-959	C\$756.00 Request Quote	6 In Stock <input type="text" value="1"/> 
 	25.0/25.4mm Optic Dia., 5 Axes Optical Mount	Adjustable - Linear (XYZ) & Tip-Tilt		#13-776	C\$1,057.00 Request Quote	2 In Stock <input type="text" value="1"/> 

Check out our full selection of mounts [here](#).

Resources

Media Type

- Application Note
- Glossary
- Video
- FAQ

APPLICATION NOTE

An Introduction to Optical Coatings

CASE STUDIES

Laser Optics for Eye Surgery

CASE STUDIES

Using IR Spectroscopy for Counterfeit Drug Detection

GLOSSARY

NIR (Near Infrared)

GLOSSARY

VIS/NIR Coating

APPLICATION NOTE

The Correct Material for Infrared (IR) Applications

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