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TECHSPEC® 50.0mm 320 - 450nm, N-BK7 Right Angle Mirrors (Hypotenuse Coated)



Broadband Dielectric Coated Right Angle Mirrors

Stock **#15-602** **2 In Stock**

1 MRP ₹46,208

Price inclusive of all taxes

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Volume Pricing	
Qty 1-5	₹46,208 each
Qty 6-25	₹37,027 each
Qty 26-49	₹34,706 each
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General

Right Angle Mirror **Type:**

Physical & Mechanical Properties

90 **Clear Aperture (%):**

Dimensional Tolerance (mm):

±0.1

Length of Hypotenuse (mm):

70.70

Length of Legs (mm):

50.00

Optical Properties

Coating Type:

Dielectric

Coating:

Dielectric Mirror (320-450nm)

Wavelength Range (nm):

320 - 450

Substrate:

N-BK7

Angle Tolerance (arcmin):

±2

Coating Specification:

Hypotenuse: $R_{avg} > 98\%$ @ 340 - 488nm (0°, All Polarizations)
 $R_{avg} > 98\%$ @ 320 - 450nm (45°, All Polarizations)
 $R_{avg} > 99\%$ @ 320 - 450nm (45°, S-Polarization)

Surface Quality:

40-20

Damage Threshold, By Design:

0.5 J/cm² @ 355nm, 20ns, 20Hz

Power (fringes) @ 632.8nm:

1.25

Irregularity (fringes) @ 632.8nm:

0.50

Regulatory Compliance

Certificate of Conformance:

[View](#)

Country of Origin:

Singapore

Imported By:

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

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

- Greater Than 98% Reflection Over Broad Wavelength Ranges
- High Reflectivity for all Polarization States
- Reflect Light at 90°
- [Standard Metal Coated Right Angle Mirrors](#) Also Available

TECHSPEC® Broadband Dielectric Coated Right Angle Mirrors (Hypotenuse Coated) are designed for beam steering or precision alignment applications utilizing multiple laser sources or operating from the visible to near-infrared spectra. These mirrors feature improved reflection compared to standard metal coated mirrors, increasing system performance by decreasing energy loss. These right angle mirrors are easily mounted and integrated into optical systems. TECHSPEC® Broadband Dielectric Coated Right Angle Mirrors (Hypotenuse Coated) reflect light at 90° and have greater than 98% reflection over broad wavelength ranges. These mirrors feature a N-BK7 substrate and are available in a variety of leg lengths.

Note: These right angle mirrors are not recommended for use in applications where light is reflected off the coated hypotenuse from inside the prism.

Technical Information



Image above shows light reflecting off the coated hypotenuse.

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