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TECHSPEC® 63.5mm Mounted Corner Cube Retroreflector



Mounted N-BK7 Corner Cube Retroreflectors



Stock **#49-080** [CONTACT US](#)

⊖ 1 ⊕ **\$985⁰⁰**

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| Volume Pricing | |
|----------------|-------------------------------|
| Qty 1-5 | \$985.60 each |
| Qty 6-25 | \$786.80 each |
| Qty 26-99 | \$739.20 each |
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Product Downloads

General

Retroreflector **Type:**

Physical & Mechanical Properties

63.50 +0.0/-0.1 **Inner Diameter (mm):**

Outer Diameter (mm):
76.20

Housing Tolerance (mm):
Outer Diameter: +0/-0.5, Height: ±0.25

Optical Properties

Beam Deviation (arcsec):
±3

Coating:
Silver with protective overcoat

Substrate: □
N-BK7

Surface Quality:
60-40

Image Orientation:
Left-Handed

Coating Specification:
Reflective Surfaces: $R_{\text{abs}} > 97\%$ FROM 400 - 2500nm
@ 0° AOI
 $R_{\text{avg}} > 98\%$ FROM 400 - 2500nm @ 0° AOI

Ray Deviation (°):
180

Wavelength Range (nm):
400 - 2500

Power (fringes) @ 632.8nm:
0.25

Irregularity (fringes) @ 632.8nm:
0.25

Threading & Mounting

Mounting Threads:
(2) 1/4-20 Tapped Holes

Regulatory Compliance

RoHS 2015:
Not Compliant

Certificate of Conformance:
[View](#)

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

- Incident Light is Reflected Back to the Source
- Useful for Surveying and Alignment
- 1/4-20 Tapped Holes for Easy Mounting
- Also Available [Unmounted](#)

TECHSPEC® Mounted N-BK7 Corner Cube Retroreflectors are mounted in an aluminum body and held in place with RTV potting cement. Due to their complex shape, corner cube retroreflectors can often be challenging to mount. These retroreflectors provide a convenient and durable solution. TECHSPEC® Mounted N-BK7 Corner Cube Retroreflectors are easily integrated via two 1/4-20 tapped holes. In addition, each retroreflector has silvered reflecting surfaces to decrease polarization effects and increase field of view. For dimension details, see the "Technical Information" tab.

Corner cube retroreflectors are designed to reflect any ray or beam entering the prism face, regardless of the prism's orientation, back onto itself. A mirror will only do that at the normal angle of incidence. As a result, corner cube retroreflectors are ideal where precision alignment is difficult or time-consuming.

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Technical Information



| Stock No. | Inner Diameter ID | Outer Diameter OD | H | X |
|-----------|-------------------|-------------------|-------|-------|
| #49-079 | 7.16 | 25.40 | 7.92 | 14.27 |
| #45-203 | 12.7 | 31.75 | 11.73 | 18.08 |
| #12-216 | 12.7 | 31.75 | 11.73 | 18.08 |
| #12-671 | 12.7 | 31.75 | 11.73 | 18.08 |
| #45-188 | 25.4 | 38.10 | 20.62 | 26.98 |
| #12-217 | 25.4 | 38.10 | 20.62 | 26.98 |
| #12-672 | 25.4 | 38.10 | 20.62 | 26.98 |
| #45-190 | 38.1 | 50.80 | 31.06 | 37.41 |
| #45-192 | 50.8 | 63.50 | 39.95 | 46.30 |
| #49-080 | 63.5 | 76.20 | 49.83 | 56.18 |
| #49-081 | 76.2 | 88.90 | 58.72 | 65.07 |



Units: mm