

**TECHSPEC® 63.5mm Mounted Corner Cube Retroreflector**



Mounted N-BK7 Corner Cube Retroreflectors



Stock **#49-080** **5 In Stock**

⊖ 1 ⊕ £563<sup>20</sup>

**ADD TO CART**

Volume Pricing	
Qty 1-5	£563.20 each
Qty 6-25	£449.60 each
Qty 26-99	£422.40 each
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**!** Prices shown are exclusive of VAT/local taxes

Product Downloads

**General**

Retroreflector **Type:**

**Physical & Mechanical Properties**

**Diameter Tolerance (mm):**  
+0.0/-0.1

**Inner Diameter (mm):**  
63.50

**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](#)

## 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](#)

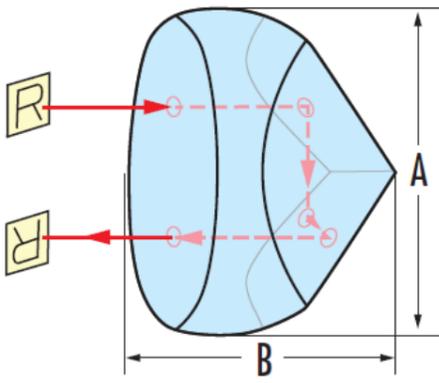
TECHSPEC® Mounted N-BK7 Corner Cube Retroreflectors are mounted in an aluminum body and held in place with RTV potting cement. Due to their complex shape, corner cube retroreflectors can often be challenging to mount. These retroreflectors provide a convenient and durable solution. TECHSPEC® Mounted 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.

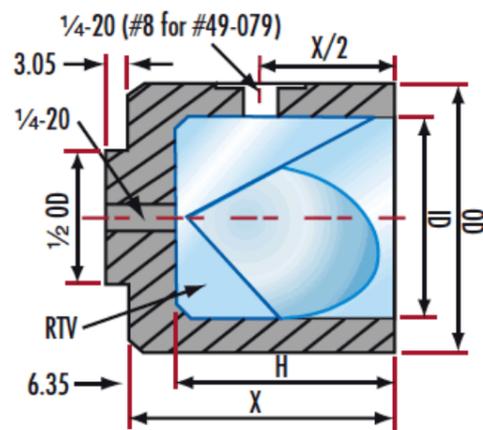
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## Technical Information



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

## 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](#).