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TECHSPEC® 50 x 70.71 x 1mm NIR, Elliptical Plate Beamsplitter



Elliptical Plate Beamsplitters

Stock **#48-918** **1 In Stock**

C\$457⁰⁰

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Volume Pricing	
Qty 1-5	C\$457.80 each
Qty 6-25	C\$366.80 each
Qty 26-49	C\$343.35 each
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Product Downloads

General

Standard Beamsplitter **Type:**

Physical & Mechanical Properties

>85 **Clear Aperture (%):**

Plate **Construction:**

Edges:
Cut with 0.25mm maximum edge chip

Major Axis (mm):
71.71 +0.0/-0.70 (physical length)

Minor Axis (mm):
50.00 +0.0/-0.10

Parallelism (arcmin):
<1

Thickness (mm):
1.00 ±0.1

Optical Properties

Coating:
NIR

Coating Specification:
Surface 1: 50R/50T ($R_{abs} \pm 5\%$ @ 900nm, $R_{avg} \pm 10\%$ @ 700 - 1100nm)
Surface 2: $R_{avg} \leq 1.0\%$, $R_{abs} \leq 2.0\%$ @ 700 - 1100nm

Reflection/Transmission Ratio (R/T):
50/50

Substrate:
[N-BK7](#)

Surface Flatness (P-V):
<2λ (per inch)

Surface Quality:
60-40

Wavelength Range (nm):
700 - 1100

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

- Circular Profile at 45°
- Visible and NIR Coating Options Offered
- Ideal for Diffuse Axial and In-line Illumination

TECHSPEC® Elliptical Plate Beamsplitters maximize beamsplitting efficiency while minimizing required mounting space. These beamsplitters are ideal for diffuse axial and in-line illumination. When oriented at 45°, the beamsplitters create a circular aperture equal to the diameter of the minor axis. TECHSPEC® Elliptical Plate Beamsplitters are available with either a visible or NIR 50% reflection/50% transmission beamsplitter coating and feature a high efficiency multi-layer anti-reflection (AR) coating to reduce back reflections. The beamsplitters are offered in either a 1 or 3mm thickness, in a range of major and minor axis measurements and wavelength ranges.

Technical Information



