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



Elliptical Plate Beamsplitters

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

⊖ 1 ⊕ ₹27,090

**ADD TO CART**

Volume Pricing	
Qty 1-5	₹27,090 each
Qty 6-25	₹24,300 each
Qty 26+	₹21,600 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

**Country of Origin:**  
United States

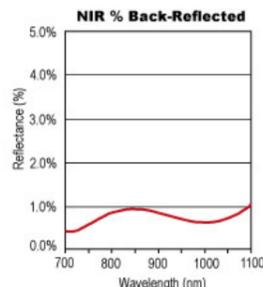
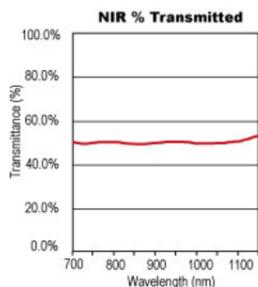
**Imported By:**  
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## Product Details

- 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



## 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](#).

