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25.4mm Dia., 3mm Thick, 2 - 8μm, ISP Optics CaF₂ IR Beamsplitter

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Stock #25-025 CLEARANCE CONTACT US

⊖ 1 ⊕ C\$469⁰⁰

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General

Standard Beamsplitter **Type:**

BSP50-CF-25-3 **Model Number:**

Physical & Mechanical Properties

85 **Clear Aperture (%):**

Plate **Construction:**

25.40 +0.00/-0.13 **Diameter (mm):**

<3 **Parallelism (arcmin):**

3.00 ±0.13 **Thickness (mm):**

Optical Properties

45 **Angle of Incidence (°):**

50/50 ± 10% @ 2 - 8µm **Reflection/Transmission Ratio (R/T):**

[Calcium Fluoride \(CaF₂\)](#) **Substrate:**

2λ@633nm **Surface Flatness (P-V):**

60-40 **Surface Quality:**

2 - 8 **Wavelength Range (µm):**

2000 - 8000 **Wavelength Range (nm):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

[Compliant](#) **Reach 240:**

Product Details

- Beamsplitter Coatings Covering 1.5 – 14µm
- Designed for 50/50 Beamsplitting at 45° AOI
- Calcium Fluoride or Zinc Selenide Substrates

ISP Optics Infrared (IR) Plate Beamsplitters are available with Calcium Fluoride (CaF₂) or Zinc Selenide (ZnSe) substrates designed to provide a 50/50 beamsplitting ratio when used at 45°. The CaF₂ beamsplitters are ideal for applications in the 1.5 – 5µm or 2 – 8µm wavelength ranges. The ZnSe beamsplitters extend farther into the infrared with a 7 – 14µm beamsplitter coating and are Anti-Reflection (AR) coated on the second surface to increase throughput. ISP Optics Infrared (IR) Plate Beamsplitters are available in standard imperial sizes and are ideal for use in FTIR and Raman spectroscopy.

Special Handling

These optics require special handling to avoid damage and ensure long-term performance. Proper handling, cleaning, and storage are essential to maintain optical quality. Explore our [Optics Cleaning Resources](#) for step-by-step guides and best practices. For personalized assistance, [Email us](#) or [Chat](#) with our technical support team.



Component Handling Tools