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25.4mm Dia., 2mm Thick, ISP Optics Gold Dichroic Beamsplitter

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1
+
C\$491⁰⁰

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General

Standard Beamsplitter **Type:**

BSP-DI-25-2 **Model Number:**

Physical & Mechanical Properties

85 **Clear Aperture (%):**

Plate **Construction:**

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

<3 **Parallelism (arcmin):**

2.00 ±0.13 **Thickness (mm):**

Optical Properties

Coating:
S1: Beamsplitter Coating
T_{avg} = 70% from 400 - 700nm
R_{avg} = 95% from 3 - 12μm

Coating Specification:
R_{avg} >95% @ 3000 - 12000nm and T_{avg} >70% @ 400 - 700nm

3000 - 12000 **Reflection Wavelength (nm):**

Substrate:
N-BK7

λ/4 @ 633nm **Surface Flatness (P-V):**

60-40 **Surface Quality:**

400 - 700 **Transmission Wavelength (nm):**

Regulatory Compliance

RoHS 2015:
Compliant

Certificate of Conformance:
View

Reach 240:
Compliant

Product Details

- Separate Visible Light from Infrared (3-12μm) Light
- Visible Transmitting/Infrared Reflecting and Visible Reflecting/Infrared Transmitting Designs
- Ideal for Combining Visible Guide Lasers with MMR Lasers

ISP Optics Infrared (IR) Dichroic Beamsplitters are used to separate visible light from infrared light, working deeper in the infrared than conventional hot and cold mirrors. The platinum dichroic beamsplitters reflect visible light while transmitting light between 3 – 12μm and have an Anti-Reflection (AR) coating on the back surface to increase throughput. The gold dichroic beamsplitters transmit visible light while reflecting infrared light between 3 – 12μm and can be used with an AOI from 0 to 45°. ISP Optics Infrared (IR) Dichroic Beamsplitters are ideal for combining guide lasers with mid-IR laser sources, such as QCL lasers, for applications including gas detection, mid-infrared photothermal microscopy, and infrared spectroscopy.