

The Fresnel reflections off of the uncoated back surface of the economy beamsplitters can lead to interference effects in the reflected beam. For applications sensitive to these effects, consider a cube beamsplitter.

Economy Visible Beamsplitters

Our economy beamsplitters are designed to have a 50:50 or 30:70 splitting ratio throughout the visible spectrum when used with unpolarized light incident at 45°.

Specifications

30:70 Beamsplitters

- **Transmission @ 45° AOI:¹**
70% From 450-650nm ± 10%
- **Reflection @ 45° AOI:¹**
30% From 450-650nm ± 10%

50:50 Beamsplitters

- **Transmission @ 45° AOI:¹**
50% From 450-650nm ± 10%
- **Reflection @ 45° AOI:¹**
50% From 450-650nm ± 10%

¹) Angle of Incidence

General Specifications

- **Angle of Incidence:** 45°
- **Sizes:**
 - Ø12.7mm +0.0/-0.25mm
 - Ø25.4mm +0.0/-0.25mm
 - Ø50.8mm +0.0/-0.5mm
- **Thickness:** 1mm Nominal
- **Aperture:** >90% Diameter
- **Scratch-Dig:** 80-50, MIL-013830A
- **Temperature Range:** -50 to +80°C
- **AR Coating:** None
- **Material:** Soda Lime Glass
- **Coating:** Refractory Oxide Dielectric

Optical Systems

Free Space Isolators

E-O Devices

Spherical Singlets

Multi-Element Lenses

Cylindrical Lenses

Aspheric Lenses

Mirrors

Diffusers & Lens Arrays

Windows

Prisms

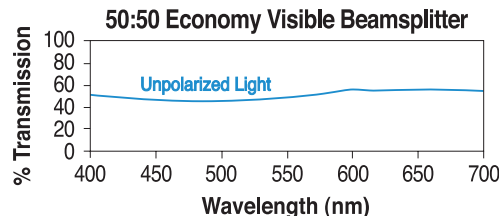
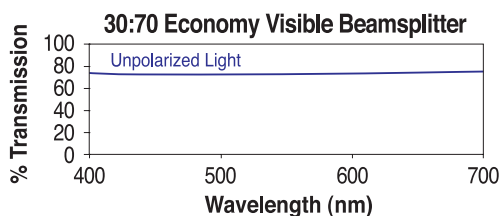
Gratings

Polarization Optics

Beamsplitters

Filters & Attenuators

Gas Cells



45° Angle of Incidence

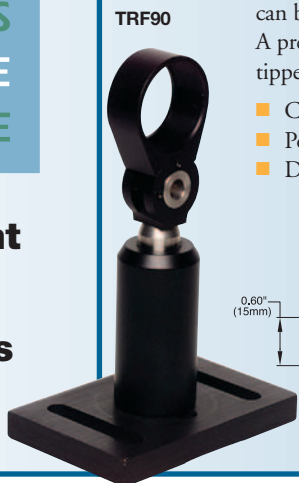
ITEM#	\$	£	€	RMB	DIAMETER	SPLIT RATIO
EBS05	\$ 20.10	£ 12.70	€ 18,70	¥ 192.00	12.7mm	50:50
EBS1	\$ 28.30	£ 17.80	€ 26,30	¥ 270.30	25.4mm	50:50
EBS2	\$ 65.70	£ 41.40	€ 61,10	¥ 627.40	50.8mm	50:50
EBP05	\$ 19.80	£ 12.50	€ 18,40	¥ 189.10	12.7mm	30:70
EBP1	\$ 28.30	£ 17.80	€ 26,30	¥ 270.30	25.4mm	30:70
EBP2	\$ 65.70	£ 41.40	€ 61,10	¥ 627.40	50.8mm	30:70

TOOLS OF THE TRADE

Flip Filter Mount

See Page 168 for More Details

Post & Base Assembly Sold Separately



TRF90

The TRF90 Filter Mount combines versatility in a compact, easy-to-operate design. The TRF90 can be post-mounted as an individual unit or ER-rod mounted for stacking filters in a series. A precision detent provides holding force at the 0° and 90° positions while convenient nylon-tipped locking setscrews are provided for more substantial securing force.

- Compact, Easy-to-Operate Design
- Post- and Rod-Mounted Design for Greater Flexibility
- Detent Force at 0° and 90°, Lockable Across Entire Range

