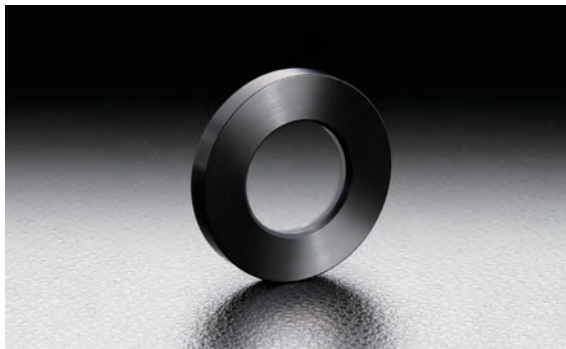
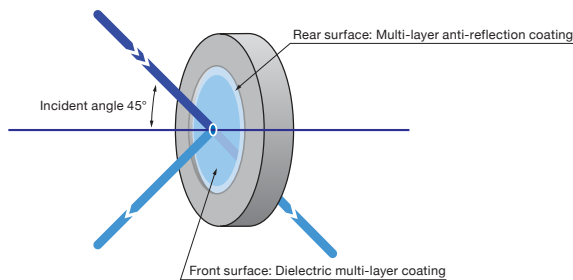


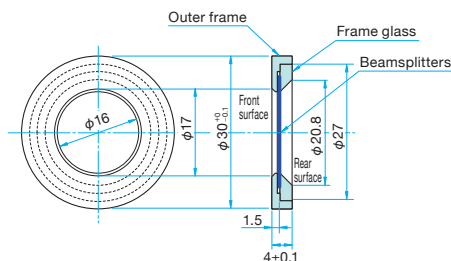
**Extremely thin beamsplitter.**

It can be inserted into an optical light path without any beam shift or chromatic dispersion for any light transmittance application.

- We offer 2 choices of thickness, 300um and 90um.
- Dielectric multi-layer optical coating with reflectance and transmittance ratios at 1:1.
- Dielectric multi-layer optical coating on the front surface and AR coating on the rear surface to provide a mirror with no loss of power.
- Due to the fabrication method, these offer good durability and high resistance against vibration making them an excellent alternative to traditional pellicle beamsplitters.

**Schematic****Outline Drawing**

(in mm)

**Specifications**

Part Number	Wavelength Range [nm]	Optics Thickness [mm]	Surface flatness after coating
MPSMH-30C0.3-1-550	400 – 700	0.3±0.03	Reflectance: λ Transmittance: λ
MPSMH-30C0.09-1-550	400 – 700	0.09±0.01	Reflectance: Polishing Transmittance: Polishing

**Specifications**

Material	Synthetic fused silica
Coating	Front surface: Dielectric multi-layer coating Rear surface (45 degrees taper hole): Anti-reflection coating
Incident angle	45°
Transmittance	Average 50±5% (The average value of the P-Polarization and the S-Polarization)
Divergence ratio (reflectance : transmittance)	1 : 1
Surface Quality (Scratch-Dig)	40-20
Clear aperture	φ10mm
Frame specification	Frame glass: Synthetic fused silica Outer frame: Aluminum Finishing: Matt black almite

**Guide**

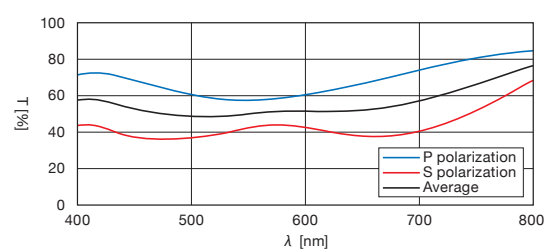
- ▶ For customization, we can offer different sizes, wavelengths and deviation ratios. [Reference](#) B068  
Please contact our Sales Division with your requests.

**Attention**

- ▶ Thin beamsplitters are extremely thin and fragile. Special care must be taken during cleaning and handling.
- ▶ When removing dust from the surface, do not use optics tissue paper to clean. Use a compress gas spray instead.
- ▶ When applying a laser linear polarized light, the direction of polarization may affect the amount of reflectance and transmittance. For divergence usage of 1:1 ratio, ensure the direction of polarization is set to 45 degrees or use a circular polarizer.
- ▶ The transmittance wavelength properties may be different if the incident angle is other than 45 degrees.
- ▶ Avoid pushing the glass retainer as the mirror can bend or break. When handling, please use the other metal frame.
- ▶ The surface reflectance accuracy may deteriorate when used outside recommended operating temperature.
- ▶ The phase difference of incident light cannot be preserved on light transmittance and reflectance. Please use a wave plate to compensate.

**Typical Transmittance Data**

T: Transmission

**Compatible Optic Mounts**

MHG-HS30-NL / BHAN-30S

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