

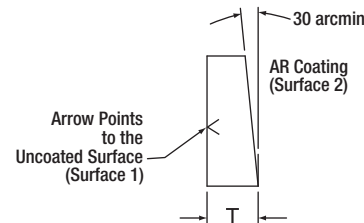
Beam Samplers for Beam Pick-off

Specifications

- **Material:** UV Fused Silica
- **Clear Aperture:** 90% of the Diameter
- **Surface Flatness:** $\lambda/10$ at 633 nm
- **Wedge:** 30 ± 10 arcmin
- **Diameter Tolerance:** $+0.0/-0.2$ mm
- **Center Thickness Tolerance:** ± 0.4 mm
- **Surface Quality:** 20-10 Scratch-Dig
- **Surface Coatings:**
 - Surface 1: None
 - Surface 2: Broadband AR Coating, $R_{avg} < 1.0\%$ Within Wavelength Range



NEW
versions

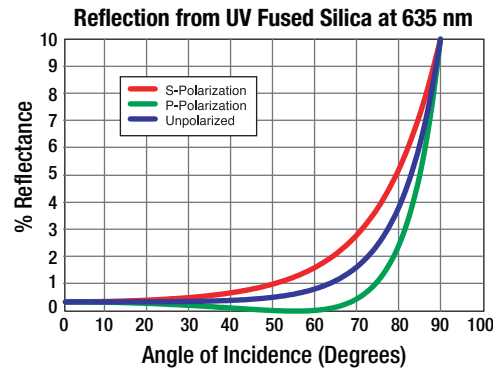
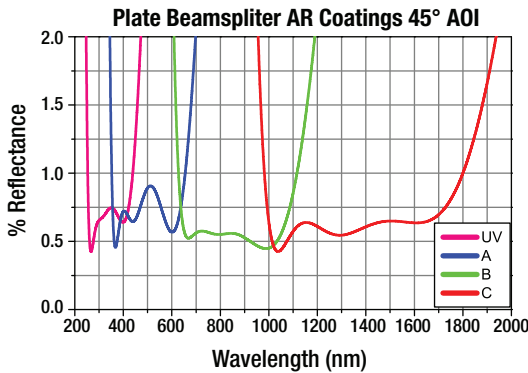


Please refer to our website for complete models and drawings.

These beam samplers, which are fabricated from UV fused silica, use Fresnel reflections to pick off 1-10% of the incident beam at 45° (see plot below). They are typically used for monitoring applications where the attenuation of the transmitted beam must be kept to a minimum. The back surface is wedged to minimize internal interference fringes and AR-coated to remove ghosting.

- $\varnothing 12.7$ mm ($\varnothing 1/2$ "), $\varnothing 25.4$ mm ($\varnothing 1$ "), and $\varnothing 50.8$ mm ($\varnothing 2$ ") Sizes Available
- 1-10% Reflectance at 45°
- AR-Coated Back Surface to Eliminate Ghosting
- 0.5° Wedge to Eliminate Interference Fringes
- UV Fused Silica Substrate

New UV Coating



Please contact your local Thorlabs office for custom optical scans.

ITEM# (290-370 nm)	ITEM# (350-700 nm)	ITEM# (650-1050 nm)	ITEM# (1050-1620 nm)	DIAMETER	MATERIAL	\$	£	€	RMB	T*	SUGGESTED MOUNT
BSF05-UV	BSF05-A	BSF05-B	BSF05-C	12.7 mm (1/2")	UV Fused Silica	\$ 33.60	£ 23.30	€ 29.90	¥ 283.80	3 mm	LMR05
BSF10-UV	BSF10-A	BSF10-B	BSF10-C	25.4 mm (1")	UV Fused Silica	\$ 56.70	£ 39.40	€ 50.40	¥ 478.80	5 mm	LMR1
BSF20-UV	BSF20-A	BSF20-B	BSF20-C	50.8 mm (2")	UV Fused Silica	\$ 86.10	£ 59.70	€ 76.50	¥ 727.10	8 mm	LMR2

*Thickness

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