



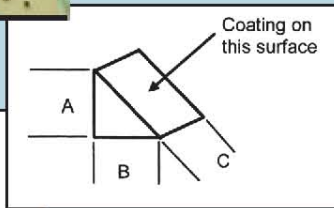
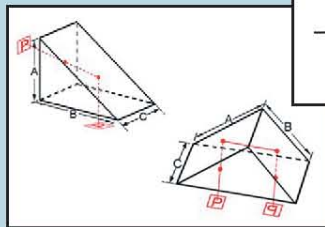
# Coated and Micro Prisms - Uncoated



This photo shows coated prisms.



This photo shows uncoated prisms.



- Nine standard sizes available: 0.5, 0.7, 1.0, 1.5, 2.0, 2.5, 3.0, 4.0 and 5.0mm
- 45° - 90° - 45°
- Uncoated or Enhanced Aluminum on hypotenuse
- Use for concept testing or production
- Low Cost

## Specifications

**Material:** BK-7

**Sizes:** Nine as follows: 0.5mm, 0.7mm, 1.0mm, 1.5mm, 2.0mm, 2.5mm, 3.0mm, 4.0mm and 5.0mm

**Dimensional Tolerance:**

For 0.5 and 0.7mm:  $\pm 0.05\text{mm}$

For balance:  $=+0.0, -0.2\text{mm}$

**Angular Tolerance:**  $\pm 3$  arc minutes

**Surface Quality/Scratch & Dig:** 40-20

**Corner chips:** None allowed

**Coating:** MPCH Series = Enhanced Aluminum,  
MPU Series = none

**Clear Aperture:**  $>80\%$

**Flatness:**  $\lambda/2 @ 632.8\text{nm}$

**Bevel:** Allowed up to 0.1mm

**Refractive index:** BK7: 1.517nd

## Product Description

Tower has expanded its line of precision optics to include standard micro prisms, coated and uncoated, for use with laser sources and imaging applications. The micro prisms are right angle, 45°-90°-45° prisms, whose sizes range from 0.5mm to 5.0mm with a format of A=B=C.

These Right Angle Prisms are used to deflect a light beam 90° or 180° as shown above. Depending on prism orientation, images will be inverted, but correct left to right. If the prism is rotated 90°, images viewed through it will be erect, but reversed left to right.

Coated Prisms can also be used as mirror reflectors with respect to incoming light. Uncoated prisms act as mirrors for light incident on one of the short sides since incident light is totally internally reflected at the hypotenuse.

Micro Prism Size A=B=C	Uncoated		Coated	
	Model	Price 1-9	Model	Price 1-9
0.5mm	MPU-0.5	\$35	MPCH-0.5	\$46
0.7mm	MPU-0.7	\$26	MPCH-0.7	\$46
1.0mm	MPU-1.0	\$24	MPCH-1.0	\$42
1.5mm	MPU-1.5	\$24	MPCH-1.5	\$42
2.0mm	MPU-2.0	\$22	MPCH-2.0	\$42
2.5mm	MPU-2.5	\$22	MPCH-2.5	\$42
3.0mm	MPU-3.0	\$20	MPCH-3.0	\$40
4.0mm	MPU-4.0	\$20	MPCH-4.0	\$40
5.0mm	MPU-5.0	\$19	MPCH-5.0	\$40

Contact factory for quantity pricing or special coatings

561-740-2525 • fax 561-740-2518 • sales@TowerOptical.com

www.TowerOptical.com

To order toll-free 1 • 800 • 526 • 7560

