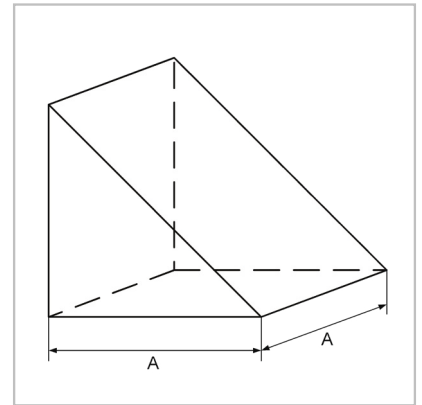


Right-angled Prism

The top surfaces of right-angled prisms are perpendicular to each other. These prisms can be used to deflect beams at a 90° or 180° angle. They only differ in the coating of the different surfaces.

For 90° deflections, the top surfaces (catheti) are generally coated with an AR coating; for 180° deflections, the base surface (hypotenuse) is coated.



Nomenclature

RAP

Product code
(Right Angle Prism)

050

Dimension A
in Inches x 100

C

Material code
UV: fused silica
C: BK7
SF: SF2

Specifications

Material	BK7, fused silica, SF2
Dimension tolerance	0.0 mm; - 0.2 mm
Angle tolerance	± 3'; ± 1'; ± 30"
Surface figure	3/0.25 according to ISO 10110 λ/8 according to MIL-O1380A
Surface quality	5/4 x 0.063 for 1.0" substrates according to ISO 10110 20-10 according to MIL-O-1380A
Protective chamfer	0.2 – 0.4 mm x 45°
Clear aperture	85 % of the dimensions

Part No.	Dimension A [mm]	Surface Figure	Surface Quality	Material
RAP020C	5.0	$\lambda/8$	20-10	BK7
RAP032C	8.0	$\lambda/8$	20-10	BK7
RAP050C	12.7	$\lambda/8$	20-10	BK7
RAP080C	20.0	$\lambda/8$	20-10	BK7
RAP100C	25.4	$\lambda/8$	20-10	BK7
RAP200C	50.8	$\lambda/8$	20-10	BK7
RAP040UV	10.0	$\lambda/8$	20-10	Fused silica
RAP050UV	12.7	$\lambda/8$	20-10	Fused silica
RAP100UV	25.4	$\lambda/8$	20-10	Fused silica
RAP050SF	12.7	$\lambda/8$	20-10	SF2
RAP100SF	25.4	$\lambda/8$	20-10	SF2

Bold type indicates items available from stock. Other sizes and materials are available upon request.

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