

WOLLASTON PRISMS

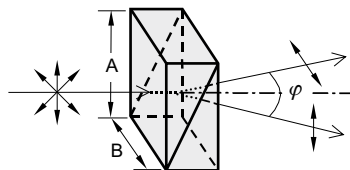
Features

- Split a beam into two orthogonally polarized divergent beams
- Made from the finest optical grade natural calcite

Wollaston prism polarizers consist of two equal calcite prisms. Both output beams are almost equally deviated. Angular separation of output beams depends on wavelength. The use of highest grade calcite provides useful transmission covering the 300–2200 nm range.

Prisms mounted in black aluminium mounts M2P or M2Ps are available.

For mount's drawing and mounting suggestion, see page 1.62.



Specifications

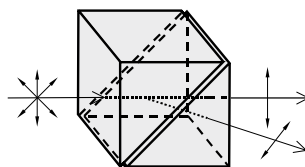
Material	Natural calcite
Surface quality	40 – 20 scratch & dig (MIL-PRF-13830B)
Wavelength range	300–2200 nm
Extinction ratio	1 : 100 000
Separation angle	10 or 20 deg
Dimension tolerance	±0.25 mm

Standard dimensions A × B, mm	Beam separation φ, deg	Unmounted	Mounted
		Catalogue number	Catalogue number
10 × 10	10	450-2101	450-2101-M2Ps
12 × 12	10	450-2121	450-2121-M2Ps
14 × 14	10	450-2141	450-2141-M2P
10 × 10	20	450-2102	450-2102-M2Ps
12 × 12	20	450-2122	450-2122-M2Ps
14 × 14	20	450-2142	450-2142-M2P

Other sizes, better quality, different spectral ranges or AR coatings are available on request.

ROCHON POLARIZING PRISMS

Rochon polarizer is made of two α-BBO prisms cemented together. The first prism, cut parallel to the optic axis, receives the light; the second, with the optic axis at right angles, transmits the ordinary ray without deviation but the extraordinary ray is deflected. A Rochon prism can be used to produce plane-polarized light and it can also be used with ultraviolet light. Any separation angle can be designed for specific wavelength upon request.



Specifications

Material	α-BBO
Wavelength range	200–3500 nm
Extinction ratio	1 : 100 000
Surface quality	20 – 10 scratch & dig (MIL-PRF-13830B)
Wavefront distortion	λ/4 at 633 nm
Beam deviation	<3 arcmin
Separation angle	8–14 deg (8 deg @ 1064 nm)
Clear aperture	90%
Coating	Single layer MgF ₂
Mount	Black anodized aluminium

Side a × a, mm	Outer mount Ø, mm	Catalogue number
8 × 8	25.4	455-2108
10 × 10	25.4	455-2110
15 × 15	30.0	455-2115



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