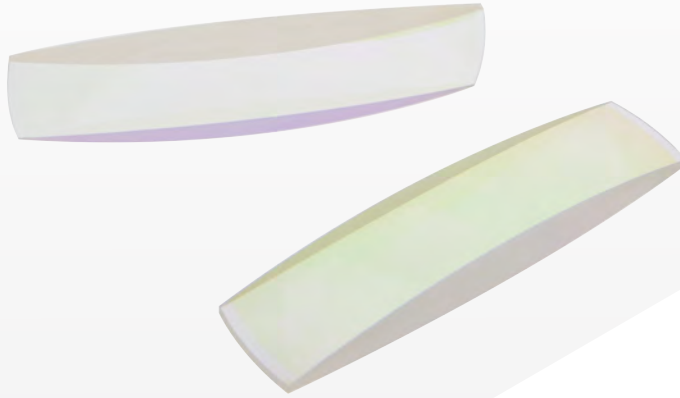


II-VI



High Performance Cylindrical Lens

PRODUCT OVERVIEW

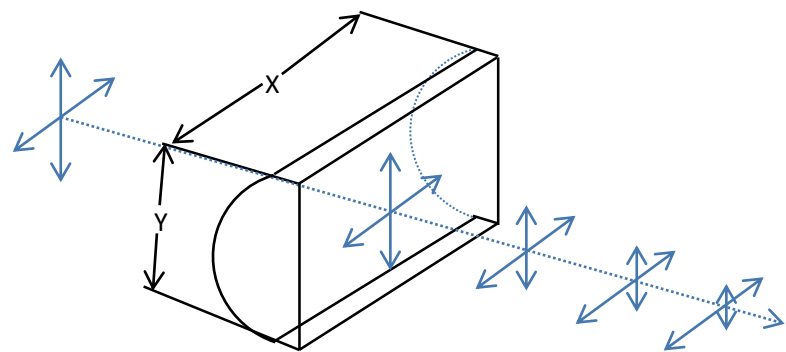
A cylindrical lens is a lens that focuses light into a line, as a spherical lens would. The curved face or faces of a cylindrical lens are sections of a cylinder, and they focus the image passing through them into a line parallel to the intersection of the surface of the lens and a plane tangent to it. The cylindrical lens compresses the image in the direction perpendicular to this line and leaves it unaltered in the direction parallel to it (in the tangent plane). Cylindrical lenses focus or expand light in one axis only. They can be used to focus light into a thin line in optical metrology, laser scanning, spectroscopic, laser diode, acousto-optic, and optical processor applications. They also can be used to expand the output of a laser diode into a symmetrical beam. In telecom, cylindrical lenses are widely used in WSS, 40G/100G modules, and pump laser modules.

Applications

- WSS
- Projection optics system
- 40G/100G modules
- Pump laser modules
- Barcode scanning
- Laser measurements systems
- Holography

High Performance Cylindrical Lens

Dimensions



Common specification

Attribute	Commercial	High Precision
Material	Glass and similar	Glass and similar
Outside Size	2-300mm	2-300mm
Outside Size Tolerance	+0/-0.2mm	+0.0/-0.05 mm
Radius	Convex: R<1400mm	Convex: R<1400mm
	Concave: R<1400mm	Concave: R<1400mm
Radius Tolerance	<1.0%@R>500	<0.5%@R>500
	<0.5%@ R=100-500	<0.2%@ R=100-500
	<0.3%@R<15-100 <0.5%@R<15	<0.1%@R<15-100 <0.3%@R<15
Thickness Tolerance	+/-0.1 mm	+/-0.05 mm
Centration	<5'	<3'
Surface Quality	60-40 scratch and dig	10-5 scratch and dig
Surface Figure	< $\lambda/4$	< $\lambda/8$
(in curve direction)		
at any 25.4*25.4mm	<1 λ	< $\lambda/2$
Surface Figure		
(in generatrix direction)	<1/4 λ	<1/8/ λ
at any 25.4*25.4mm		
Flat Irregularity	<1 nm	<0.7 nm
at any 25.4*25.4mm		
Ra	<0.5 mm	<0.1 mm
Chip		

Other sizes, diameters and coatings are also available upon request.