

PLANO-CONVEX LENSES (PCX)

Description

PCX positive focal length lenses have flat surface on one side and spherical surface on the other. They are used for focusing beams in telescopes, collimators or condenser systems, optical transceivers or other applications. ALTECHNA provides PCX lens up to 500 mm diameter. Under customers request lens are anti-reflection coated (Please refer to the Coatings Section).

Standard specifications

Material	BK7, FS, UVFS, CaF ₂ , ZnSe, Si, Ge
Diameter tolerance	+0/-0.1 mm
Thickness tolerance	±0.1 mm
Clear aperture	>90 %
Focal length tolerance	±3 %
Design wavelength	632.8 nm
Surface quality	40-20 S-D
Surface figure	<λ/4@632.8 nm
Centration error	<3 arcmin
Protective chamfers	<0.25 mm x 45°
Coatings	Call us

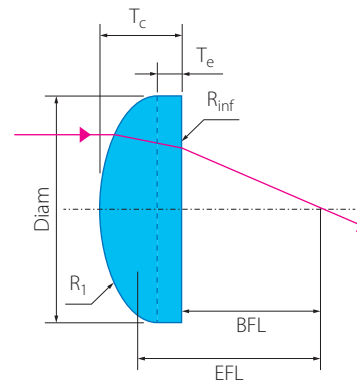
Features

- Converges incident light
- Custom focal length available from 1.5 mm up to 25000 mm
- Custom diameter available up to 500 mm



Miscellaneous

- Custom design production is also available
- Mass production capabilities: 10'000 pieces per month
- Various dielectric coatings can be deposited on lenses
- Check online stock for attractive prices and fastest delivery



Catalog Items

BK7 Plano-Convex Lenses

Diameter, mm	Focal length, mm	Edge thickness, mm	Product ID
12.7	+20	2.0	1-PCX-1-A127
	+25		1-PCX-1-B127
	+40		1-PCX-1-C127
	+50		1-PCX-1-D127
	+60		1-PCX-1-E127
	+75		1-PCX-1-F127
	+100		1-PCX-1-G127
	+150		1-PCX-1-H127
	+200		1-PCX-1-J127
	+250		1-PCX-1-K127
	+300		1-PCX-1-L127
	+500		1-PCX-1-M127
+1000	1-PCX-1-N127		
+1500	1-PCX-1-P127		
25.4	+35	2.0	1-PCX-1-A254
	+50		1-PCX-1-B254
	+60		1-PCX-1-C254
	+75		1-PCX-1-D254
	+100		1-PCX-1-E254
	+125		1-PCX-1-F254
	+150		1-PCX-1-G254
	+200		1-PCX-1-H254
	+250		1-PCX-1-J254
	+300		1-PCX-1-K254
	+400		1-PCX-1-L254
	+500		1-PCX-1-M254
+750	1-PCX-1-N254		
+1000	1-PCX-1-P254		
+1200	1-PCX-1-R254		
+1500	1-PCX-1-S254		
+2000	1-PCX-1-T254		
+2500	1-PCX-1-U254		
+3000	1-PCX-1-V254		
+4000	1-PCX-1-W254		
+5000	1-PCX-1-X254		
+10000	1-PCX-1-Y254		
50.8	+200	3.0	1-PCX-1-A508
	+300		1-PCX-1-B508
	+350		1-PCX-1-C508
	+500		1-PCX-1-D508
	+1000		1-PCX-1-E508
	+2000		1-PCX-1-F508

UVFS Plano-Convex Lenses

Diameter, mm	Focal length, mm	Edge thickness, mm	Product ID
12.7	+20	2.0	1-PCX-2-A127
	+25		1-PCX-2-B127
	+40		1-PCX-2-C127
	+50		1-PCX-2-D127
	+60		1-PCX-2-E127
	+75		1-PCX-2-F127
	+100		1-PCX-2-G127
	+150		1-PCX-2-H127
	+200		1-PCX-2-J127
	+250		1-PCX-2-K127
	+300		1-PCX-2-L127
	+500		1-PCX-2-M127
+1000	1-PCX-2-N127		
+1500	1-PCX-2-P127		
25.4	+35	2.0	1-PCX-2-A254
	+50		1-PCX-2-B254
	+60		1-PCX-2-C254
	+75		1-PCX-2-D254
	+100		1-PCX-2-E254
	+125		1-PCX-2-F254
	+150		1-PCX-2-G254
	+200		1-PCX-2-H254
	+250		1-PCX-2-J254
	+300		1-PCX-2-K254
	+400		1-PCX-2-L254
	+500		1-PCX-2-M254
+750	1-PCX-2-N254		
+1000	1-PCX-2-P254		
+1200	1-PCX-2-R254		
+1500	1-PCX-2-S254		
+2000	1-PCX-2-T254		
+2500	1-PCX-2-U254		
+3000	1-PCX-2-V254		
+4000	1-PCX-2-W254		
+5000	1-PCX-2-X254		
+10000	1-PCX-2-Y254		
50.8	+200	3.0	1-PCX-2-A508
	+300		1-PCX-2-B508
	+350		1-PCX-2-C508
	+500		1-PCX-2-D508
	+1000		1-PCX-2-E508
	+2000		1-PCX-2-F508

Catalog Items

Plano-Convex Lenses from other materials

Material	Diameter, mm	Focal length, mm	Edge thickness, mm	Product ID
CaF ₂	25.4	+100	2.0	1-PCX-3-A254
		+200		1-PCX-3-B254
		+500		1-PCX-3-C254
		+1000		1-PCX-3-D254
		+25		1-PCX-4-A127
ZnSe	12.7	+30		1-PCX-4-B127
		+50		1-PCX-4-C127
		+100		1-PCX-4-D127
		+200		1-PCX-4-E127
		+300		1-PCX-4-F127
	25.4	+500		1-PCX-4-G127
		+100		1-PCX-4-A254
		+200		1-PCX-4-B254
		+300		1-PCX-4-C254
		+500		1-PCX-4-D254

* Contact ALTECHNA for larger quantity pricing info@altechna.com

If you do not find suitable size or need other wavelengths design for your application please contact us and we guaranty to provide a solution for you

Related products and accessories

- LensCase (page 39)
- Double-Convex Lenses (page 25)
- Achromatic lenses (page 37)
- 4LM13-40 Self-Centering Lens/Optics Mount (page 234)
- 4OCM - Optical Mounts (page 235)

