

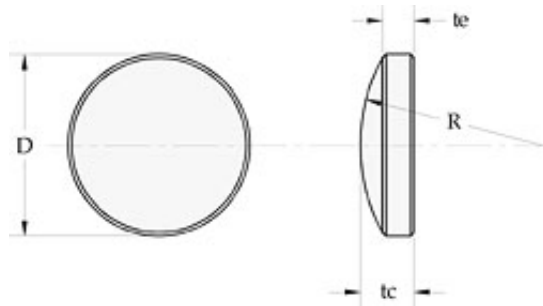


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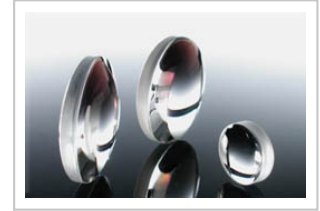
714 327 0600

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Plano Convex Lens – BK7A (PCX)



**BK7 for Visible
Near IR
applications
Focal length
designed at
633nm**



**Focal Length: $f = R/(n-1)$
n: refractive index
R: radius curvature**

Plano-convex lenses are useful for a wide range of applications. These lenses are manufactured from BK7A for visible and Near IR applications. All lenses are uncoated but Anti-reflection coatings are available. When used to focus a collimated beam, the light should be incident on the curved surface of the lens. These plano-convex lenses may be combined with other lenses to form complex imaging systems.

Material:	BK7 grade A
Surface Flatness:	$< \lambda / 10 @ 633 \text{ nm}$
Surface Quality:	$< 10/5$ (both sides)
Centration Error:	≤ 3 arc min
Focal Length Tolerance: (@633nm)	$< \pm 0.5\%$
Diameter Tolerance:	$< + 0.00 / - 0.20 \text{ mm}$
Thickness Tolerance:	$< \pm 0.25 \text{ mm}$

Clear Aperture:

> 85% of diameter

FL to ROC Conversion Table:

FL @ 633nm (mm)	FL @ 532nm (mm)	Radius of Curvature (mm)
20	19.83	10.30
25	24.78	12.87
30	29.74	15.45
38	37.67	19.57
50	49.57	25.75
75	74.36	38.63
100	99.16	51.50
150	148.98	77.39
200	198.47	103.10
250	247.95	128.50
300	297.42	154.50
400	397.71	206.60
500	495.70	257.50
750	743.64	515.10

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Material

BK7 Grade A

Diameter

Choose an option

Focal

Choose an option

Length

-	1	+
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Add to cart

ROHS	COMPLIANT
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Clear

Additional information

MATERIAL	<i>BK7 Grade A</i>
DIAMETER	<i>0.5" dia, 0.75" dia, 1.0" dia, 1.5" dia, 2.0" dia</i>
FOCAL LENGTH	<i>020 mm @ 633nm, 025 mm @ 633nm, 030 mm @ 633nm, 038 mm @ 633nm, 050 mm @ 633nm, 075 mm @ 633nm, 100 mm @ 633nm, 150 mm @ 633nm, 200 mm @ 633nm, 250 mm @ 633nm, 300 mm @ 633nm, 400 mm @ 633nm, 500 mm @ 633nm, 750 mm @ 633nm, 1000 mm @ 633nm, 2000 mm @ 633nm, 3000 mm @ 633nm, 4000 mm @ 633nm, 5000 mm @ 633nm, 6000 mm @ 633nm, 7000 mm @ 633nm, 7500 mm @ 633nm, 8000 mm @ 633nm, 9000 mm @ 633nm, 10000 mm @ 633nm, 20000 mm @ 633nm</i>