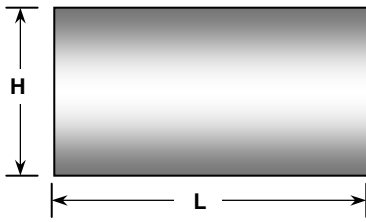


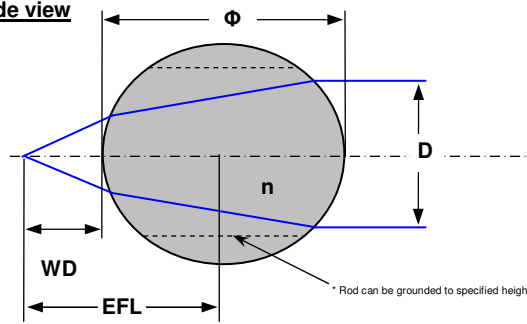
BK7 ROD LENSES

LENS DRAWING

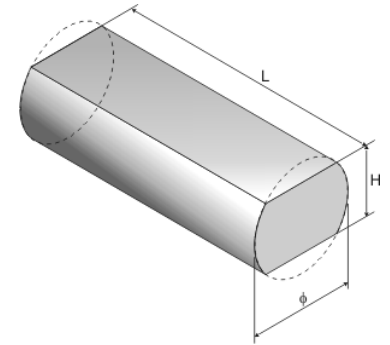
Front view



Side view



3D view



LENS DESIGN INFORMATION

Ordering Code CYL_ROD_BK7_Φ_H_L_AR(λ1-λ2)	Dimensions ¹		
	Φ	H	L
Material: BK7			
CYL_ROD_BK7_0.452_H_L_AR(λ1-λ2)	0.452	custom	custom
CYL_ROD_BK7_0.50_H_L_AR(λ1-λ2)	0.50	custom	custom
CYL_ROD_BK7_0.80_H_L_AR(λ1-λ2)	0.80	custom	custom
CYL_ROD_BK7_1.00_H_L_AR(λ1-λ2)	1.00	custom	custom
CYL_ROD_BK7_1.249_H_L_AR(λ1-λ2)	1.249	custom	custom
CYL_ROD_BK7_2.00_H_L_AR(λ1-λ2)	2.00	custom	custom
CYL_ROD_BK7_2.60_H_L_AR(λ1-λ2)	2.60	custom	custom
CYL_ROD_BK7_3.00_H_L_AR(λ1-λ2)	3.00	custom	custom
CYL_ROD_BK7_4.00_H_L_AR(λ1-λ2)	4.00	custom	custom
CYL_ROD_BK7_6.56_H_L_AR(λ1-λ2)	6.56	custom	custom

1. All units are mm

Refractive index vs. λ

λ (nm)	532	633	810	1064	1550
n	1.5195	1.5151	1.5106	1.5066	1.5006

Useful formulae

$$R = \Phi / 2$$

$$EFL = \frac{n \cdot R}{2 \cdot (n - 1)}$$

$$WD = \frac{EFL \cdot (2 - n)}{n}$$

$$D = 2 \cdot EFL \cdot NA$$

Legend

EFL: Effective focal length

Φ: Rod diameter

n: Refractive index

NA: Numerical aperture

H: Lens height

AR(λ₁ - λ₂): Anti-reflection coating wavelength range

WD: Working distance

L: Rod length

D: Beam diameter

R: Radius of curvature