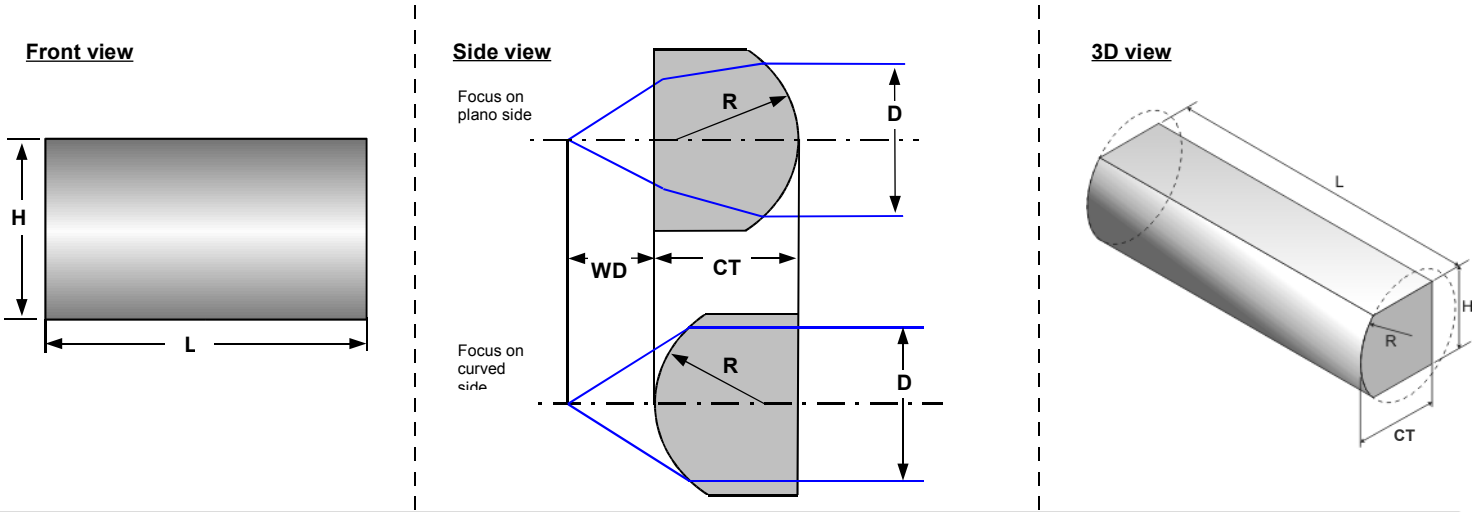


S-TIH53 Cut-Rod Lenses

LENS DRAWING



LENS DESIGN INFORMATIONS

Ordering Code CYL_CRO_S-TIH53_R_H_CT_L_AR(λ1-λ2)	Dimensions ¹			
	R	H	CT	L
Material: S-TIH53				

1. All units are mm

Refractive index vs. λ

λ (nm)	532	633	810	1064	1550
n	1.8584	1.8395	1.8228	1.8112	1.7997

Useful formulae

$$\Phi = 2 R$$

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

Focus on curved side: $WD = EFL$

Focus on plano side: $WD = EFL - CT / n$

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

Presently, most of our productions of cut-rod lenses are custom order.

Use the ordering code on the right to place an order or contact us for more information.

E-mail: sales@doriclenses.com

Ordering code: CYL_CRO_S-TIH53_R_H_CT_L_AR(λ1-λ2)

CYL: Cylindrical lenses
CRO: Cut-rod lens code
S-TIH53: Material: S-TIH53
R: Rod radius (mm)
H: Lens height (mm)
CT: Central thickness (mm)
L: Lens length (mm)
AR(λ₁-λ₂): Anti-reflection coating wavelength range (nm)

Legend

EFL: Effective focal length

Φ: Rod diameter

L: Rod length

NA: Numerical aperture

R: Rod radius

n: Refractive index

WD: Working distance

H: Lens height

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

D: Beam diameter

CT: Central thickness

