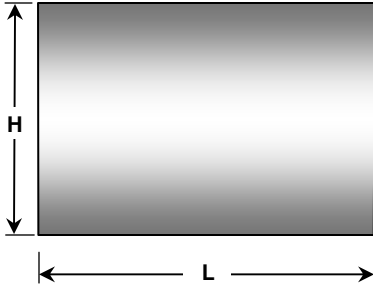


## DOUBLE-CONVEX CYLINDRICAL LENSES

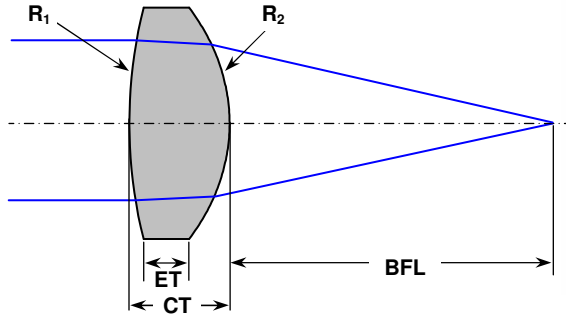
SURFACE 1 : PURE RADIUS  
SURFACE 2 : PURE RADIUS

### LENS DRAWING

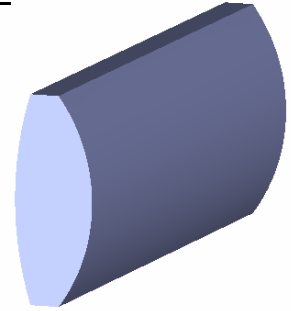
Front view



Side view



3D view



### LENS DESIGN INFORMATIONS

Ordering Code CYL_DCX_MAT_R1_R2_H_CT_L_AR( $\lambda_1$ - $\lambda_2$ )	Paraxial data <sup>1,2</sup>		Dimensions <sup>1</sup>			Surfaces data	
	EFL	BFL	H	CT	L	1 R <sub>1</sub>	2 R <sub>2</sub>
<b>Material: Fused silica</b>							
Use ordering code							
or contact us for details at:							
<a href="mailto:sales@doriclenses.com">sales@doriclenses.com</a>							
<b>Material: BK7</b>							
Use ordering code							
or contact us for details at:							
<a href="mailto:sales@doriclenses.com">sales@doriclenses.com</a>							

1. All units are mm  
2. Given at  $\lambda = 632.8$  nm.

#### Useful formulae

$$\frac{1}{EFL} = (n-1) \left( \frac{1}{R_1} - \frac{1}{R_2} + \frac{(n-1) CT}{n (R_1 R_2)} \right)$$

$$BFL = EFL \left[ 1 - \frac{CT(n-1)}{nR_1} \right]$$

#### Legend

EFL: Effective focal length    NA: Numerical aperture    WD: Working distance    D: Beam diameter     $\Phi$ : Rod diameter    R: Radius of curvature  
H: Lens height    CT: Central thickness    L: Rod length    n: Refractive index    AR( $\lambda_1 - \lambda_2$ ): Anti-reflection coating wavelength range

