



Acylindrical Equation

$$Z(y) = \frac{c^2 y^2}{1 + \sqrt{1 - (k + 1)c^2 y^2}} + \sum_{i=2}^8 A_{2i} y^{2i}$$

Acylindrical Coefficients

	S1	S2
R	0.4213	Plano
c	2.3736	
k	-0.4500	
A ₄	1.7381 E-1	
A ₆	-1.1580 E0	
A ₈	1.4572 E1	
A ₁₀	-6.9225 E1	

Sagittal Distances of Acylindrical Surface

Y (mm)	Z(mm)	
	S1	S2
0.0	0.000000	-
0.2275	-0.06449	-
0.455	-0.30498	-

SECTION A-A
SCALE 50 : 1

S1		Material/Lens Data		S2	
Radius of Curvature	0.4213 mm	Glass Type	S-TIH53	Radius of Curvature	Plano
Clear Aperture	0.82 mm	n _d / V _d	1.8466 / 23.8	Clear Aperture	0.41 mm
Irregularity	< λ/4 P-V	Focal length	0.512 mm ±3%	Irregularity	< λ/4 P-V
Centering	Tilt < 0.25°	Numerical Aperture	0.80	Centering	Tilt < 0.25°
Surface Quality	40-20	Design wavelength	808 nm	Surface Quality	40-20
Coating	To be specified			Coating	To be specified

Dimensions in mm
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