

ASPHERIC COEFFICIENTS

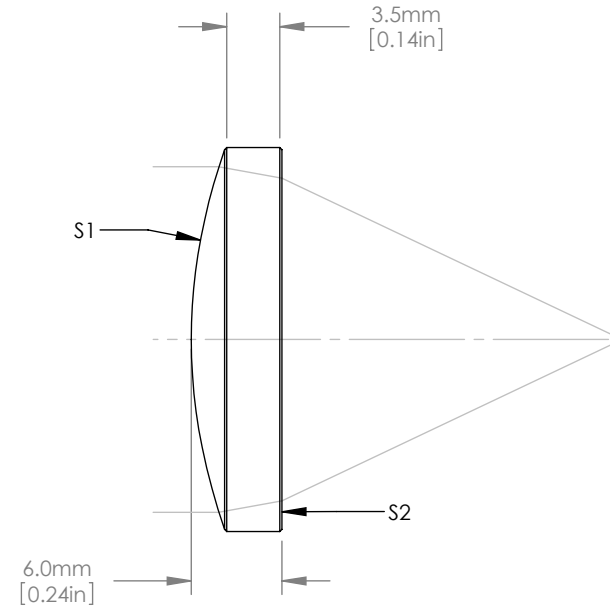
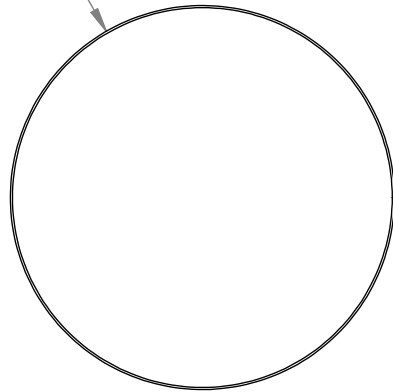
	R	k	A <sub>2</sub>	A <sub>4</sub>	A <sub>6</sub>
S1	35.07	-1.000000	0	-2.0094416E-06	0
S2	INFINITE	-	-	-	-



1:1 ISOMETRIC VIEW

$$z = \frac{Y^2}{R(1 + \sqrt{1 - (1+k)Y^2/R^2})} + A_2Y^2 + A_4Y^4 + A_6Y^6$$

∅25.4mm  
[1.00in]



NOTES/SPECIFICATIONS

DESIGN WAVELENGTHS: 10.6µm  
 MATERIAL: ZINC SELENIDE  
 REFRACTIVE INDEX: 2.4027 ±0.0005 AT 10.6µm  
 EFFECTIVE FOCAL LENGTH: 25.0mm ±1%  
 CLEAR APERTURE: >90% OF DIAMETER  
 NUMERICAL APERTURE: 0.42  
 BACK FOCAL LENGTH: 22.51mm  
 SURFACE QUALITY: 80-50 SCRATCH DIG  
 WEDGE: < 3 arcmin  
 DIAMETER TOLERANCE: +0.00mm/-0.10mm  
 CENTER THICKNESS TOLERANCE: ±0.10mm  
 COATING (S1&S2): BBAR Ravg<1.5% FROM 8-12µm

FOR INFORMATION ONLY  
 NOT FOR MANUFACTURING PURPOSES

DRAWING PROJECTION			<b>THORLABS</b> www.thorlabs.com	
NAME	DATE	ZnSe ASPHERE, EFL=25mm WAVELENGTH RANGE: 8-12µm		
DRAWN	SFG	01/SEP/10	MATERIAL	REV
APPROVAL	DD	07/SEP/10	CVD LASER GRADE ZnSe	A
COPYRIGHT © 2010 BY THORLABS			ITEM #	APPROX WEIGHT
VALUES IN PARENTHESIS ARE CALCULATED AND MAY CONTAIN ROUND OFF ERRORS			AL72525-F	0.01 kg