

NOTES:

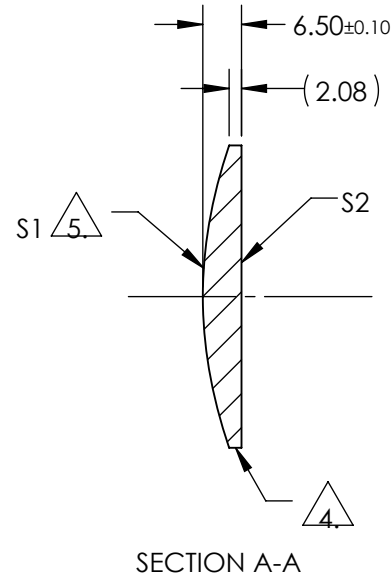
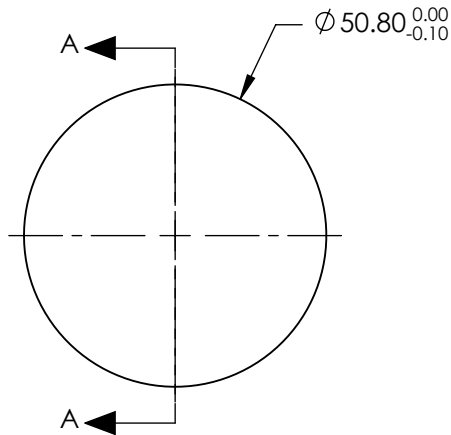
1. SUBSTRATE:  
II-VI Infrared ZnSe
2. CENTERING TOLERANCE:  
EDGE THICKNESS VARIATION MEASURED AT THE CLEAR APERTURE OF S1 NOT TO EXCEED 12.7µm
3. COATING (APPLY ACROSS COATING APERTURE):  
S1 & S2: BBAR (8000-12000nm)  
R(AVG) < 0.5% @ 8 - 12µm

4. FINE GRIND SURFACE

5. ASPHERIC SURFACE DESCRIBED BY THE FOLLOWING EQUATION AND COEFFICIENTS SHOWN IN TABLE BELOW

$$Z_{ASPH}(Y) = \frac{(\frac{1}{RADIUS}) * Y^2}{1 + \sqrt{1 - (1+k) * (\frac{1}{RADIUS})^2 * Y^2}} + D * Y^2 + E * Y^4 + F * Y^6 + G * Y^8 + H * Y^{10} + J * Y^{12} + L * Y^{14}$$

6. SURFACE ROUGHNESS: 50 Å



COEFFICIENT TABLE 5.	
COEFFICIENT	S1
SEMI-DIAMETER	2.540000E+01
(1/RADIUS)	1.403312E-02
k	-1.279984E+00
D	0.000000E+00
E	-1.498164E-07
F	-1.970050E-11
G	6.329852E-15
H	0.000000E+00
J	0.000000E+00
L	0.000000E+00

	S1	S2
SHAPE	CONVEX	PLANO
RADIUS	71.260	INFINITY
SURFACE QUALITY	40-20	40-20
CLEAR APERTURE	Ø45.72	Ø45.72
POWER at 632.8nm	2.0 RINGS	2.0 RINGS
IRREGULARITY at 632.8nm	1.0 RING	1.0 RING
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED

EFL (AT 10.6µm)	(50.80)
BFL (AT 10.6µm)	(48.10)



ALL DIMS IN	mm
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**EO**® Edmund Optics®

TITLE: 50.8mm Dia. x 50.8mm FL 8-12µm AR Coated, Zinc Selenide Aspheric Lens

DWG NO	39518	SHEET 1 OF 1
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**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**

SPECIFICATIONS SUBJECT TO CHANGE  
WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY