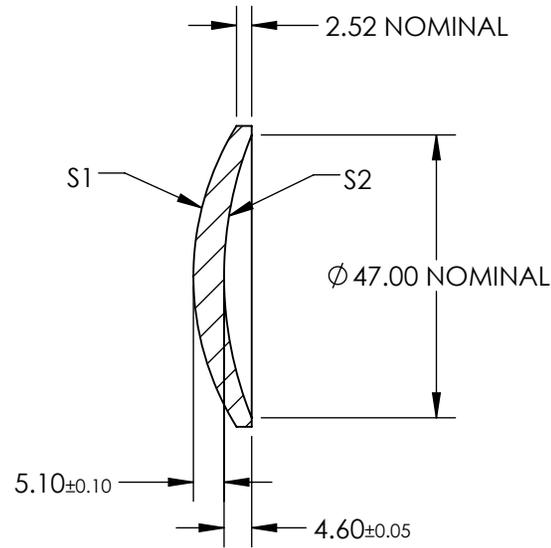
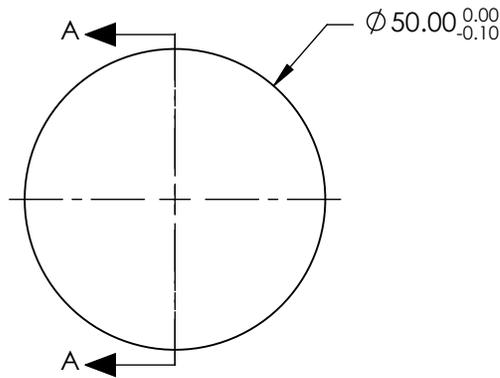


NOTES:

1. SUBSTRATE: GERMANIUM (GE)
2. COATING  
 S1: R(avg) <3.0% @ 8 - 12µm  
 S2: R(avg) <3.0% @ 8 - 12µm
3. EDGES: DIAMOND TURNED
4. CENTERING: 5-3 arcmin
5. RoHS: COMPLIANT
6. ASPHERIC SURFACE DESCRIBED BY THE FOLLOWING EQUATION AND COEFFICIENTS SHOWN IN TABLE BELOW

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

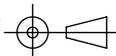
**FOR INFORMATION ONLY:  
DO NOT MANUFACTURE  
PARTS TO THIS DRAWING**



SECTION A-A

COEFFICIENT TABLE	
COEFFICIENT	S1
k	0.000000E+00
D	0.000000E+00
E	-9.298507E-08
F	-3.145007E-11
G	-3.117166E-14
H	0.000000E+00
J	0.000000E+00
L	0.000000E+00

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE  
DIMENSIONS ARE FOR REFERENCE ONLY

	S1	S2					
SHAPE	CONVEX	CONCAVE	EFL @ 4000nm: 50	 <b>Edmund Optics®</b>			
RADIUS	46.880	62.380	BFL @ 4000nm: 45.92				
SURFACE ACCURACY	0.3µm	N/A	THIRD ANGLE PROJECTION 	TITLE	50mm DIA X 50mm FL 8-12µm COATED, GE ASPHERIC LENS		
SURFACE QUALITY	60-40	60-40	ALL DIMS IN	mm	DWG NO	87998	SHEET 1 OF 1
CLEAR APERTURE	90%	90%					
BEVEL	PROTECTIVE AS NEEDED	PROTECTIVE AS NEEDED					